

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

FORM 20-F

☐ REGISTRATION STATEMENT PURSUANT TO SECTION 12(b) or 12(g) OF THE *SECURITIES EXCHANGE ACT OF 1934*

OR

X ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE *SECURITIES EXCHANGE ACT OF 1934*

For the fiscal year ended December 31, 2021

OR

☐ TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE *SECURITIES EXCHANGE ACT OF 1934*

For the transition period from _____ to _____

OR

☐ SHELL COMPANY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE *SECURITIES EXCHANGE ACT OF 1934*

Date of event requiring this shell company report _____

Commission file number 001-41010



Mainz Biomed N.V.

(Exact name of Registrant specified in its charter)

Not Applicable

(Translation of Registrant's name into English)

The Netherlands

(Jurisdiction of incorporation or organization)

**Mainz Biomed N.V.
Robert Koch Strasse 50
55129 Mainz**

Germany

(Address of principal executive offices)

**Mr. Guido Baechler
Chief Executive Officer
+49 (0) 6131 / 55428-60
info@mainzbiomed.com**

(Name, Telephone, Email and/or Facsimile number and Address of Company Contact Person)

Securities registered or to be registered pursuant to Section 12(b) of the Act.

| Title of Each Class | Name of each exchange on which registered |
|------------------------|---|
| Ordinary Shares | The Nasdaq Stock Market LLC |

Securities registered or to be registered pursuant to Section 12(g) of the Act.

None

(Title of Class)

Securities for which there is a reporting obligation pursuant to Section 15(d) of the Act.

Ordinary Shares

(Title of Class)

Number of outstanding shares of each of the issuer's classes of capital or common stock as of the close of business of the period covered by the annual report.

12,010,000 Ordinary Shares

Indicate by check mark if the Registrant is a well-known seasoned issuer as defined in Rule 405 of the Securities Act.

Yes ☐ No X

If this report is an annual or transition report, indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or 15(d) of the *Securities Exchange Act of 1934*

Yes ☐ No ☒

Indicate by check mark whether Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the *Securities Exchange Act of 1934* during the preceding 12 months (or for such shorter period that Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically on its corporate Web site, if any, every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).

Yes ☒ No ☐

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or an emerging growth company. See definition of "accelerated filer," "large accelerated filer," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large Accelerated Filer ☐ Accelerated Filer ☐
Non Accelerated Filer ☒ Emerging Growth Company ☒

If an emerging growth company that prepares its financial statements in accordance with U.S. GAAP, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards pursuant to Section 13(a) of the Exchange Act. ☐

Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.S.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report. ☐

Indicate by check mark which basis of accounting the registrant has used to prepare the financial statements included in this filing:

U.S. GAAP ☐ International Financial Reporting Standards as issued by the International Accounting Standards Board ☒ Other ☐

If "Other" has been checked in response to the previous question, indicate by check mark which financial statement item the registrant has elected to follow: Item 17 ☐ Item 18 ☐

If this is an annual report, indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b 2 of the Exchange Act):

Yes ☐ No ☒

(APPLICABLE ONLY TO ISSUERS INVOLVED IN BANKRUPTCY PROCEEDINGS DURING THE PAST FIVE YEARS)

Indicate by check mark whether Registrant has filed all documents and reports required to be filed by Sections 12, 13 or 15(d) of the *Securities Exchange Act of 1934* subsequent to the distribution of securities under a plan confirmed by a court.

Not applicable.

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FORWARD LOOKING STATEMENTS

This annual report contains statements that constitute "forward-looking statements". Any statements that are not statements of historical facts may be deemed to be forward-looking statements. These statements appear in a number of different places in this annual report and, in some cases, can be identified by words such as "anticipates", "estimates", "projects", "expects", "contemplates", "intends", "believes", "plans", "may", "will", or their negatives or other comparable words, although not all forward-looking statements contain these identifying words. Forward-looking statements in this annual report may include, but are not limited to, statements and/or information related to: strategy, future operations, projected production capacity, projected sales or rentals, projected costs, expectations regarding demand and acceptance of our products, availability of material components, trends in the market in which we operate, plans and objectives of management.

We believe that we have based our forward-looking statements on reasonable assumptions, estimates, analysis and opinions made in light of our experience and our perception of trends, current conditions and expected developments, as well as other factors that we believe to be relevant and reasonable in the circumstances at the date that such statements are made, but which may prove to be incorrect. Although management believes that the assumption and expectations reflected in such forward-looking statements are reasonable, we may have made misjudgments in preparing such forward-looking statements. Assumptions have been made regarding, among other things: our expected production capacity; labor costs and material costs, no material variations in the current regulatory environment and our ability to obtain financing as and when required and on reasonable terms. Readers are cautioned that the foregoing list is not exhaustive of all factors and assumptions which may have been used.

The forward-looking statements, including the statements contained in Item 3.D "Risk Factors". In particular, without limiting the generality of the foregoing disclosure, the statements contained in Item 4.B. – "Business Overview", Item 5 – "Operating and Financial Review and Prospects" and Item 11 – "Quantitative and Qualitative Disclosures About Market Risk" and elsewhere in this annual report, are subject to known and unknown risks, uncertainties and other factors that may cause actual results to be materially different from those expressed or implied by such forward-looking statements.

Although management has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements, there may be other factors that cause results not to be as anticipated, estimated or intended. Forward-looking statements might not prove to be accurate, as actual results and future events could differ materially from those anticipated in such forward-looking statements or we may have made misjudgments in the course of preparing the forward-looking statements. Accordingly, readers should not place undue reliance on forward-looking statements. We wish to advise you that these cautionary remarks expressly qualify, in their entirety, all forward-looking statements attributable to our company or persons acting on our company's behalf. We do not undertake to update any forward-looking statements to reflect actual results, changes in assumptions or changes in other factors affecting such statements, except as, and to the extent required by, applicable securities laws. You should carefully review the cautionary statements and risk factors contained in this annual report and other documents that we may file from time to time with the securities regulators.

OTHER STATEMENTS IN THIS ANNUAL REPORT

Unless the context otherwise requires, in this annual report, the term(s) "we", "us", "our", "Company", "our company", "our business" and "Mainz Biomed" refer to Mainz Biomed N.V. together with its two wholly-owned subsidiaries.

PART I

ITEM 1. IDENTITY OF DIRECTORS, SENIOR MANAGEMENT AND ADVISERS

Not Applicable.

ITEM 2. OFFER STATISTICS AND EXPECTED TIMETABLE

Not Applicable.

ITEM 3. KEY INFORMATION

A. [Reserved]

B. Capitalization and Indebtedness

Not applicable.

C. Reasons for the offer and use of proceeds

Not applicable.

D. Risk Factors

An investment in our ordinary shares carries a significant degree of risk. You should carefully consider the following risks, as well as the other information contained in this annual report, including our historical financial statements and related notes included elsewhere in this annual report, before you decide to purchase the ordinary shares. Any one of these risks and uncertainties has the potential to cause material adverse effects on our business, prospects, financial condition and operating results which could cause actual results to differ materially from any forward-looking statements expressed by us and a significant decrease in the value of our ordinary shares. Refer to "Special

Note Regarding Forward-Looking Statements”.

We may not be successful in preventing the material adverse effects that any of the following risks and uncertainties may cause. These potential risks and uncertainties may not be a complete list of the risks and uncertainties facing us. There may be additional risks and uncertainties that we are presently unaware of, or presently consider immaterial, that may become material in the future and have a material adverse effect on us. You could lose all or a significant portion of your investment due to any of these risks and uncertainties.

Risks Related to Our Business Generally

We are an early revenue stage company and have incurred operating losses since inception, and we do not know when we will attain profitability. An investment in our securities is highly risky and could result in a complete loss of your investment if we are unsuccessful in our business plans.

We are an early-stage company. Since inception, we have incurred operating losses and negative cash flow, and we expect to continue to incur losses and negative cash flow in the future. Our net losses for the years ended December 31, 2021 and December 31, 2020 were \$11,690,098 and \$586,895, respectively. Ultimately, our ability to generate sufficient operating revenue to earn a profit depends upon our success in developing and marketing or licensing our diagnostic tests and technology. Any failure to do so could result in the possible closure of our business or force us to seek additional capital through loans or additional sales of our equity securities to continue business operations, which could dilute the value of any securities you hold or could result in the loss of your entire investment.

Terms of subsequent financings may adversely impact your investment.

We intend to engage in common equity, debt, or preferred stock financing in the future. Your rights and the value of your investment in our securities could be reduced as a result of any such financing. Interest on debt securities could increase costs and negatively impacts operating results. Preferred shares could be issued in series from time to time with such designation, rights, preferences, and limitations as needed to raise capital. The terms of preferred shares could be more advantageous to those investors than to the holders of ordinary shares. In addition, if we need to raise more equity capital from the sale of ordinary shares, institutional or other investors may negotiate terms at least as, and possibly more, favorable than the terms of your investment. Ordinary shares which we sell could be sold into the nascent public market for our ordinary shares which could adversely affect the market price of our ordinary shares.

Our inability to manage growth could harm our business.

We have added, and expect to continue to add, additional personnel in the areas of sales and marketing, research & development, laboratory operations, finance, quality assurance and compliance. As we build our commercialization efforts and expand research and development activities, our operating expenses and capital requirements have also increased, and we expect that they will continue to increase, significantly. Our ability to manage our growth effectively requires us to forecast expenses accurately, and to properly forecast and expand operational and testing facilities, if necessary, to expend funds to improve our operational, financial and management controls, reporting systems and procedures. As we move forward in commercializing our tests and developing our test portfolio, we will also need to effectively manage our growing manufacturing, laboratory operations and sales and marketing needs. If we are unable to manage our anticipated growth effectively, our business could be harmed.

Risks that we face in undertaking this expansion include:

- training new personnel;
- forecasting production and revenue;
- expanding our marketing efforts;
- controlling expenses and investments in anticipation of expanded operations;
- establishing and maintaining relationships with new customers and partners;
- implementing and enhancing administrative infrastructure, systems and processes;
- Unforeseen delays in the development of new products;
- Unforeseen delays in regulatory approvals;
- Unforeseen test performance that we may experience performing FDA studies; and
- addressing new markets.

We intend to continue to hire additional personnel. Competition for individuals with relevant experience can be intense, and we may not be able to attract, assimilate, train or retain additional highly qualified personnel in the future. The failure to attract, integrate, train, motivate and retain these additional employees could seriously harm our business and prospects.

We substantially depend upon our management.

Our success depends largely on the skills, experience and performance of key members of our management who are critical to directing and managing our growth and development in the future. Our success substantially depends upon our senior management's ability to lead our company, implement successful corporate strategies and initiatives, develop key relationships, including relationships with collaborators and business partners, and successfully commercialize products and services. While our management has significant experience developing diagnostic products, we have considerably less experience in commercializing these products or services. The efforts of our management will be critical as we develop our technologies and seek to commercialize our tests and other products and services.

In September 2021, we acquired all of the equity interests of PharmGenomics, and the combined company may not perform as we expect.

On September 20, 2021, we acquired all of the equity interests of PharmGenomics, the entity that licenses the ColoAlert[®] intellectual property. The combined company may not perform as we expect. Risks associated with the combined company include:

- integrating businesses is a difficult, expensive, and time-consuming process. Although we have not had historically substantial operations, the Chief Executive Officer and the Chief Financial Officer of the combined company come from the Mainz Biomed side of the acquisition whereas the executive and non-executive employees of the

combined company come from the PharmGenomics side of the merger. Failure to integrate successfully our businesses with the business and operations of PharmGenomics could lead to inefficiencies, the loss of staff, decreased revenue and ineffective marketing campaigns or research and development; and

- the success of the combined company also depends upon relationships with third parties and any deterioration of the relationship with PharmGenomics' pre-existing reference laboratories platform could adversely affect the combined company's business, financial condition, and results of operations.

Failure of our internal controls over financial reporting could harm our business and financial results.

Our management is responsible for establishing and maintaining adequate internal control over financial reporting. Internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting for external purposes in accordance with accounting principles generally accepted in the United States. Internal control over financial reporting includes maintaining records that in reasonable detail accurately and fairly reflect our transactions; providing reasonable assurance that transactions are recorded as necessary for preparation of our financial statements; providing reasonable assurance that receipts and expenditures of our assets are made in accordance with management authorization; and providing reasonable assurance that unauthorized acquisition, use or disposition of our assets that could have a material effect on the financial statements would be prevented or detected on a timely basis. Because of its inherent limitations, internal control over financial reporting is not intended to provide absolute assurance that a misstatement of our financial statements would be prevented or detected. Our growth and entry into new diagnostic tests, technologies and markets will place significant additional pressure on our system of internal control over financial reporting. Any failure to maintain an effective system of internal control over financial reporting could limit our ability to report our financial results accurately and timely or to detect and prevent fraud.

You may face difficulties protecting your interests, and your ability to protect your rights through the U.S. federal courts may be limited because we are incorporated under the laws of the Netherlands, a substantial portion of our assets are in the European Union and a majority of our directors and executive officers reside outside the United States.

We are constituted under the laws of the Netherlands. A majority of our officers, and directors, reside outside the United States. In addition, a substantial portion of their assets and our assets are located outside of the United States. As a result, you may have difficulty serving legal process within the United States upon us or any of these persons. You may also have difficulty enforcing, both in and outside of the United States, judgments you may obtain in U.S. courts against us or these persons in any action, including actions based upon the civil liability provisions of U.S. Federal or state securities laws. Furthermore, there is substantial doubt as to the enforceability in the Netherlands against us or against any of our directors, officers and the expert named in this annual report who are not residents of the United States, in original actions or in actions for enforcement of judgments of U.S. courts, of liabilities based solely upon the civil liability provisions of the U.S. federal securities laws. In addition, shareholders in Dutch corporations may not have standing to initiate a shareholder derivative action in U.S. federal courts.

As a result, our public shareholders may have more difficulty in protecting their interests through actions against us, our management, our directors or our major shareholders than would shareholders of a corporation incorporated in a jurisdiction in the United States.

Global economic conditions could materially adversely impact demand for our products and services.

Our operations and performance depend significantly on economic conditions. Global financial conditions continue to be subject to volatility arising from international geopolitical developments and global economic phenomenon, as well as general financial market turbulence and natural phenomena such as the COVID-19 pandemic. Uncertainty about global economic conditions could result in

- customers postponing purchases of our products and services in response to tighter credit, unemployment, negative financial news and/or declines in income or asset values and other macroeconomic factors, which could have a material negative effect on demand for our products and services; and
- third-party suppliers being unable to produce components for our products in the same quantity or on the same timeline or being unable to deliver such parts and components as quickly as before or subject to price fluctuations, which could have a material adverse effect on our production or the cost of such production; and accordingly, on our business, results of operations or financial condition.

Access to public financing and credit can be negatively affected by the effect of these events on German, Dutch, European, U.S. and global credit markets. The health of the global financing and credit markets may affect our ability to obtain equity or debt financing in the future and the terms at which financing or credit is available to us. These instances of volatility and market turmoil could adversely affect our operations and the trading price of our ordinary shares.

Changes to trade policy, tariffs, and import/export regulations may have a material adverse effect on our business, financial condition, and results of operations.

Changes in laws and policies governing foreign trade could adversely affect our business. As a result of recent and future policy changes, there may be greater restrictions and economic disincentives on international trade. Such changes have the potential to adversely impact the global and local economies, our industry and global demand for our products and, as a result, could have a material adverse effect on our business, financial condition and results of operations.

Fluctuations in currency exchange rates may significantly impact our results of operations.

A substantial percentage of our operations are conducted in Europe. As a result, we are exposed to an exchange rate risk between the U.S. and the Euro. The exchange rates between these currencies in recent years have fluctuated significantly and may continue to do so in the future. An appreciation of the Euro against the U.S. dollar could increase the relative cost of our products outside of Europe, which could lead to decreased sales. Conversely, to the extent that we are required to pay for goods or services in U.S. dollars, the depreciation of the Euro against the U.S. dollar would increase the cost of such goods and services.

We do not hedge our currency exposure and, therefore, we incur currency transaction risk whenever we enter into either a purchase or sale transaction using a currency other than the Euro. Given the volatility of exchange rates, we might not be able to effectively manage our currency transaction risks, and volatility in currency exchange rates might have a material adverse effect on our business, financial condition or results of operations.

Risks Related to Our Technology and Business Strategy

We may fail to generate sufficient revenue from our relationships with our clients or laboratory partners to achieve and maintain profitability.

We believe our commercial success depends upon our ability to successfully market and sell our products and solutions, to continue to expand our current relationships and to

develop new relationships with customers, physicians, and laboratories. The demand for our existing and future services may decrease for a number of reasons, including, but is not limited to, the development by competitors of new products, and increased competition from companies that offer similar products and solutions. In addition to reducing our revenue, if our laboratory partners or clients decide to decrease or discontinue their partnerships or relationships with us, and their use of our knowledge and interpretation-based solutions, this may reduce our access to research and patient data that facilitates the incorporation of newly developed information about rare diseases into our data repository.

Our success depends heavily on our ColoAlert screening tests.

For the foreseeable future, our ability to generate revenues will depend almost entirely on the commercial success of our colon cancer screening test. The commercial success and our ability to generate revenues will depend on a variety of factors, including the following:

- patient acceptance of and demand for our tests;
- acceptance of our test in the medical community;
- successful sales, marketing, and educational programs;
- the amount and nature of competition from other colon cancer screening products and procedures;
- the ease of use of our ordering process for physicians;
- maintaining and defending intellectual property and trade secrets, and our ability to establish and maintain adequate commercial manufacturing, distribution, sales and laboratory testing capabilities; and
- The potential of being sued by competitors to avoid or delay market entry in certain geographic markets.

If we are unable to develop and maintain substantial sales of our tests or if we are significantly delayed or limited in doing so, our business prospects, financial condition and results of operation would be adversely affected.

Sales of our diagnostic tests could be adversely impacted by the reluctance of physicians to adopt the use of our tests and by the availability of competing diagnostic tests.

Physicians and hospitals may be reluctant to try a new diagnostic test due to the high degree of risk associated with the application of new technologies and diagnostic test in the field of human medicine, especially if the new test differs from the current standard of care for detecting cancer in patients. For example, CRC prevention strategies, such as FIT and colonoscopies, are well known in the patient group aged over 50 years, while ColoAlert and similar diagnostic tests are not vastly known by physicians or patients. We will need to expend significant sums of money to market our products to increase the public's awareness. If our products do not achieve an adequate level of acceptance, we may not generate enough revenues to become profitable or the profitability may occur much later.

Competing tests for the initial diagnosis, reoccurrence diagnosis and optimal treatment of cancer are being manufactured and marketed by other companies. To compete with other diagnostic tests, particularly any that sell at lower prices, our tests will have to provide medically significant advantages or be more cost effective. Even if we can overcome physician reluctance and compete with products that are currently on the market, our competitors may succeed in developing new, safer, more accurate or more cost-effective diagnostic tests that could render our diagnostic tests and technologies obsolete or non-competitive.

We may not succeed in establishing, maintaining and strengthening ColoAlert and other brands associated with Mainz Biomed's products, which would materially and adversely affect acceptance of our diagnostic tests, and our business, revenues and prospects.

Our business and prospects heavily depend on our ability to develop, maintain and strengthen the ColoAlert brand and the brands of our future products. Any failure to develop, maintain and strengthen these brands may materially and adversely affect our ability to sell our products. Most of our sales are to clinical reference laboratories or routine diagnostic laboratories. Those laboratories are generally more focused on taking orders than on marketing the products that they sell. We need to educate these reference laboratories and the general public as to why we believe our products are superior. If we are not able to establish, maintain and strengthen our brands, we may lose the opportunity to build our customer base.

We expect that our ability to develop, maintain and strengthen our brands will depend heavily on the success of our marketing efforts. We intend to use proceeds from this offering for marketing of our products, but we might not be successful in such expanded marketing. Due to the specifics of the market in which we operate, the investment in customer acquisition will be high and the uptake is likely slow until a critical mass is reached. To further promote our brand, we may be required to change our marketing practices, which could result in substantially increased advertising expenses, including the need to use traditional media such as television, radio and print. If we do not develop and maintain strong brands, our business, prospects, financial condition and operating results will be materially and adversely impacted.

We might decide not to incorporate the UdeS Biomarkers after we conclude additional studies on such biomarkers.

On January 4, 2022, we acquired an option to license the UdeS Biomarkers. Our decision to exercise such option will depend, among other factors, on the results of further studies that we intend to conduct on the UdeS biomarkers and the analysis as to whether the incorporation of such biomarkers will improve our ColoAlert product. If we conclude such studies and decide not exercise such option, we will have expended such funds without improving our ColoAlert product and we will have no recourse to such expended funds.

Product liability, warranty, personal injury, property damage and recall claims may materially affect our financial condition and damage our reputation.

We are engaged in a business that exposes us to claims for product liability and warranty claims in the event our products actually or allegedly fail to perform as expected or the use of our products results, or is alleged to result, in property damage, personal injury or death. Any judgment or settlement for personal injury or wrongful death claims could be more than our assets and, even if not justified, could prove expensive to contest.

Although we maintain product and general liability insurance of the types and in the amounts that we believe are customary for the industry, we are not fully insured against all such potential claims. We may experience legal claims in excess of our insurance coverage or claims that are not covered by insurance, either of which could adversely affect our business, financial condition and results of operations. Adverse determination of material product liability and warranty claims made against us could have a material adverse effect on our financial condition and harm our reputation. In addition, if any of our products or components in our products are, or are alleged to be, defective, we may be required to participate in a recall of that product or component. Any such recall and other claims could be costly to us and require substantial management attention.

We may face technology transfer challenges and expenses in adding new tests to our portfolio and in expanding our reach into new geographical areas.

Our plan for expanding our business includes developing and acquiring additional tests or additional biomarkers that can be transferred into our current and future diagnostic product portfolio and distributed in our target markets. Due to differences in the hardware and software platforms available at different laboratories for running molecular tests, we

may need to adjust the configuration of the reagents and there may be changes to the related software in order for the tests to be performed on particular hardware platforms. Making any such adjustments could take a considerable amount of time and expense, and there will be no assurance that we will succeed in running our tests on the hardware and software that we may encounter in different laboratories. To manage this issue, we may license or acquire our own instrument system and software from another company that has a platform that will be compatible with our tests. This may include additional licenses and license fees needed for reagents or components required hereto as well.

If third party payors do not provide reimbursement, breach, rescind or modify their contracts or reimbursement policies or delay payments for our tests, or we are unable to successfully renegotiate reimbursement contracts, our commercial success could be compromised.

Physicians and patients might not order our tests unless third party payors, such as managed care organizations as well as government payors, pay a substantial portion of the test price. Reimbursement by a payor may depend on a number of factors, including a payor's determination that tests using our technologies are not experimental or investigational, and that they are medically necessary, cost-effective, supported by peer-reviewed publications and included in clinical practice guidelines. There is uncertainty concerning third-party payor reimbursement of any test incorporating new technology.

Reimbursement is based in most countries on reimbursement codes, which differ from country to country. Currently, ColoAlert is reimbursed as a polymerase chain reaction ("PCR") test in Germany for privately insured patients if an authorized medical care center is performing the analysis. For statutory and/or privately insured patients in Germany and in other countries, we may need to apply for a specific reimbursement code, which may call for a new clinical study and additional CE-IVD approvals.

We believe that it may take several years to achieve reimbursement with a majority of third-party payors for our tests. If we fail to establish and maintain broad adoption of and reimbursement for all of our current tests and any future tests that we may develop, our reputation could be harmed and our future prospects, revenue and our business could suffer. Additionally, we have in the past experienced, and anticipate further experiencing, delays and temporary interruptions in the receipt of payments from third-party payors due to modifications in existing contracts or arrangements, contract implementation matters, documentation requirements and other issues, which could cause our revenues to fluctuate from period to period.

We will need to make significant inroads with general practitioners in Europe. In most European countries, health care is considered a public responsibility, and the main payer is public health insurance. This implies that the private pay market is limited, and that general practitioners are the main gate keepers to market penetration. If we cannot convince general practitioners in Europe that our products are the superior choice, we cannot grow there as quickly as we need, if at all.

We may depend on possible future collaborations to develop and commercialize many of our diagnostic test candidates and to provide the manufacturing, regulatory compliance, sales, marketing and distribution capabilities required for the success of our business.

We may enter into various collaborative research and development, manufacturing, and diagnostic test marketing agreements to develop and commercialize our diagnostic tests. Any future milestone payments and cost reimbursements from collaboration agreements could provide an important source of financing for our research and development programs, thereby facilitating the application of our technology to the development and commercialization of our diagnostic tests, but there are risks associated with entering into collaboration arrangements.

There is a risk that we could become dependent upon one or more collaborative arrangements for diagnostic test development or manufacturing or as a source of revenues from the sale of any diagnostic tests that may be developed by us alone or through one of the collaborative arrangements. A collaborative arrangement upon which we might depend might be terminated by our collaboration partner or they might determine not to actively pursue the development or commercialization of our diagnostic tests. A collaboration partner also may not be precluded from independently pursuing competing diagnostic tests or technologies.

There is a risk that a collaboration partner might fail to perform its obligations under the collaborative arrangements or may be slow in performing its obligations. In addition, a collaboration partner may experience financial difficulties at any time that could prevent it from having available funds to contribute to the collaboration. If a collaboration partner fails to conduct its diagnostic test development, manufacturing, commercialization, regulatory compliance, sales and marketing or distribution activities successfully and in a timely manner, or if it terminates or materially modifies its agreements with us, the development and commercialization of one or more diagnostic test candidates could be delayed, curtailed or terminated because we may not have sufficient financial resources or capabilities to continue diagnostic test development, manufacturing, and commercialization on our own.

If we are unable to obtain and enforce patents and to protect our trade secrets, others could use our technology to compete with us, which could create undue competition and pricing pressures. There is no certainty that any future patent applications will result in the issuance of patents or that issued patents, if we receive any, will be deemed enforceable.

The success of our business depends significantly on our ability to operate without infringing patents and other proprietary rights of others. If the technology that we use infringes a patent held by others, we could be sued for monetary damages by the patent holder or its licensee, or we could be prevented from continuing research, development, and commercialization of diagnostic tests that rely on that technology, unless we are able to obtain a license to use the patent. The cost and availability of a license to a patent cannot be predicted, and the likelihood of obtaining a license at an acceptable cost would be lower if the patent holder or any of its licensees is using the patent to develop or market a diagnostic test with which our diagnostic test would compete. If we cannot obtain a necessary license, we would need to develop or obtain rights to alternative technologies, which could prove costly and could cause delays in diagnostic test development, or we could be forced to discontinue the development or marketing of any diagnostic tests that were developed using the technology covered by the patent.

Our success will depend in part on our ability to obtain and enforce intellectual property protection. We currently rely on trade secrets, know how and technology to protect our intellectual property and do not have any patents or any pending patent applications. In January 2022, we entered into a Technology Rights Agreement pursuant to which we may license certain biomarkers developed at the Université de Sherbrooke. If we exercise our option to acquire to such license, we will be responsible for prosecuting and maintaining any patents on such biomarkers, including the patent application filed with the U.S. PTO (application no. 68/108,510) and the International Patent System. If we are unsuccessful in obtaining or maintaining such protection and our trade secrets and know are revealed to our competitors, they could use our intellectual property and create diagnostic tests that compete with our diagnostic tests, without paying license fees or royalties to us.

Confidentiality agreements with employees and others may not adequately prevent disclosure of trade secrets and other proprietary information.

We rely on trade secrets, know-how and technology, which are not protected by patents and do not have any patent applications pending, to protect the intellectual property behind our diagnostic tests. We do not yet use confidentiality agreements with our collaborators, employees, consultants, outside scientific collaborators and sponsored researchers and other advisors to protect our proprietary technology and processes. We intend to use such agreements in the future, but these agreements may not effectively prevent disclosure of confidential information and may not provide an adequate remedy in the event of unauthorized disclosure of confidential information. In addition, others may

independently discover trade secrets and proprietary information, and in such cases, we cannot assert any trade secret rights against such party. Costly and time-consuming litigation could be necessary to enforce and determine the scope of our proprietary rights, and failure to obtain or maintain trade secret protection could adversely affect our competitive business position.

Results of FDA required studies may not create desired clinical performance resulting in follow-on studies delaying the launch of the product in the US.

We will be required to undertake a clinical study to achieve FDA market authorization that will be significantly larger than the study used to receive CE-IVD certification under the IVD-D. The clinical performance of the ColoAlert test for the FDA study might not meet the current product performance. As a result, we may need to undertake additional studies or abandon the study altogether. Additional studies would be costly and delay or prevent our rollout of ColoAlert in the United States.

Risks Related to Regulations

Our global operations expose us to numerous and sometimes conflicting legal and regulatory requirements, and violations of these requirements could harm our business.

We are subject to numerous, and sometimes conflicting, legal regimes in the countries in which we operate, including on matters as diverse as health and safety standards, marketing and promotional activities, anticorruption, import/export controls, content requirements, trade restrictions, tariffs, taxation, sanctions, immigration, internal and disclosure control obligations, securities regulation, anti-competition, data privacy and labor relations. This includes in emerging markets where legal systems may be less developed or familiar to us. We strive to abide by and maintain compliance with these laws and regulations. Compliance with diverse legal requirements is costly and time-consuming. Violations of one or more of these regulations in the conduct of our business could result in significant fines, criminal sanctions against us or our board of directors or officers, prohibitions on doing business and damage to our reputation. Violations of these regulations in connection with the performance of our obligations to our clients or partners also could result in liability for significant monetary damages, fines and/or criminal prosecution, unfavorable publicity and other reputational damage, restrictions on our ability to process information and allegations by our clients or partners that we have not performed our contractual obligations. Due to the varying degrees of development of the legal systems of the countries in which we operate, local laws might be insufficient to protect our rights.

Our international operations could be affected by changes in laws, trade regulations, labor and employment regulations, and procedures and actions affecting approval, products and solutions, pricing, reimbursement and marketing of our products and solutions, as well as by inter-governmental disputes. Any of these changes could adversely affect our business. The imposition of new laws or regulations, including potential trade barriers, may increase our operating costs, impose restrictions on our operations or require us to spend additional funds to gain compliance with the new rules, if possible, which could have an adverse impact on our financial condition.

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Our business is subject to various complex laws and regulations. We could be subject to significant fines and penalties if we or our partners fail to comply with these laws and regulations.

As a manufacturer of clinical diagnostic products and clinical diagnostic services, we and our partners are subject to extensive and frequently changing federal, state and local laws and regulations governing various aspects of our business. In particular, the clinical laboratory industry is subject to significant governmental certification and licensing regulations, as well as federal and state laws regarding:

- test ordering and billing practices;
- marketing, sales and pricing practices;
- health information privacy and security, including the Health Insurance Portability and Accountability Act of 1996, or HIPAA, as amended by the Health Information Technology for Economic and Clinical Health Act of 2009, or HITECH, and comparable state and local laws;
- anti-markup legislation; and
- consumer protection.

We expect to be required to comply with U.S. Food and Drug Administration, or FDA, regulations, including with respect to our labeling and promotion activities. In addition, advertising of our tests is subject to regulation by the Federal Trade Commission, or FTC. Violation of any FDA requirement could result in enforcement actions, such as seizures, injunctions, civil penalties and criminal prosecutions, and violation of any FTC requirement could result in injunctions and other associated remedies, all of which could have a material adverse effect on our business. Most states also have similar regulatory and enforcement authority for devices. Additionally, most foreign countries have authorities comparable to the FDA and processes for obtaining marketing approvals. Obtaining and maintaining these approvals, and complying with all laws and regulations, may subject us to similar risks and delays as those we could experience under FDA and FTC regulation. We incur various costs in complying and overseeing compliance with these laws and regulations.

Healthcare policy has been a subject of extensive discussion in many national, regional and local governments, and healthcare laws and regulations are subject to change. Development of the existing commercialization strategy for our tests have been based on existing healthcare policies. We cannot predict what additional changes, if any, will be proposed or adopted or the effect that such proposals or adoption may have on our business, financial condition, and results of operations. If we or our partners, including independent sales representatives, fail to comply with these laws and regulations, we could incur significant fines and penalties and our reputation and prospects could suffer. Additionally, our partners could be forced to cease offering our products and services in certain jurisdictions, which could materially disrupt our business.

We will have to maintain facilities, or maintain relationships with third party laboratories, for the manufacture and use of diagnostic tests. Our ability to provide services and pursue our research and development and commercialization efforts may be jeopardized if these facilities were to be harmed or rendered inoperable.

Our facilities and equipment could be harmed or rendered inoperable by natural or man-made disasters, including fire, flooding and power outages, which may render it difficult or impossible for us to perform our tests or provide laboratory services for some period of time. The inability to perform our tests or the backlog of tests that could develop if any of our facilities is inoperable for even a short period of time may result in the loss of customers or harm to our reputation or relationships with key researchers, collaborators, and customers, and we may be unable to regain those customers or repair our reputation in the future. Furthermore, our facilities and the equipment we use to perform our research and development work could be costly and time-consuming to repair or replace.

Additionally, a key component of our research and development process involves using biological samples and the resulting data sets and medical histories, as the basis for our diagnostic test development. In some cases, these samples are difficult to obtain. If the parts of our laboratory facilities where we store these biological samples are damaged or compromised, our ability to pursue our research and development projects, commercialization of our diagnostic tests, as well as our reputation, could be jeopardized. We carry insurance for damage to our property and the disruption of our business, but this insurance may not be sufficient to cover all of our potential losses and may not continue to be available to us on acceptable terms, if at all.

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We anticipate being required to obtain regulatory approval of our diagnostic test products to enter new markets.

If our products enter new markets, they will need to satisfy the regulatory rules in that market. Given the nature of our products and product candidates, we believe that our entry into the U.S. market will require FDA market authorization through pre-market review. This may also be the case for corresponding foreign regulatory authorities. Our products and product candidates may not be cleared or approved on a timely basis, if at all. The regulatory approval process may involve, among other things, successfully completing additional clinical trials and filing a pre-market approval application (PMA) with the FDA. Similar review and approval processes may be applicable for corresponding foreign regulatory authorities.

We are required to comply with national, regional and local laws governing the privacy of health information, and any failure to comply with these laws could result in material criminal and civil penalties.

National, regional and local laws set forth security regulations that establish administrative, physical and technical standards for maintaining the confidentiality, integrity and availability of protected health information in electronic form. If protected health information is breached, additional laws, require us to provide certain health information security breach notifications to those individuals whose protected health information is breached.

We may incur significant compliance costs related to varying national and state privacy regulations and varying national and state privacy and security laws. Given the complexity of such laws and their overlap with national and state privacy and security laws, and the fact that these laws are rapidly evolving and are subject to changing and potentially conflicting interpretation, our ability to comply with such laws and requirements is uncertain and the costs of compliance are significant. The costs of complying with any changes to the national and state privacy restrictions may have a negative impact on our operations. Noncompliance could subject us to criminal penalties, civil sanctions and significant monetary penalties as well as reputational damage.

We are subject to national and regional healthcare fraud and abuse laws and regulations and could face substantial penalties if we are unable to fully comply with such laws.

We are subject to healthcare fraud and abuse regulation and enforcement by both national governments and the regions in which we conduct our business. In the United States, where we intend to seek approval to rollout our ColoAlert product, these health care laws and regulations include the following:

- The federal Anti-Kickback Statute;
- The federal physician self-referral prohibition, commonly known as the Stark Law;
- The federal false claims and civil monetary penalties laws;
- The federal Physician Payment Sunshine Act requirements under the Affordable Care Act; and
- State law equivalents of each of the federal laws enumerated above.

Any action brought against us for violation of these laws or regulations, even if we are in compliance and successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. If our operations are found to be in violation of any of these laws and regulations, we may be subject to applicable penalties associated with the violation, including, among others, administrative, civil and criminal penalties, damages and fines, and/or exclusion from participation in Medicare, Medicaid programs, including the California Medical Assistance Program (Medi-Cal — the California version of the Medicaid program) or other state or federal health care programs. Additionally, we could be required to refund payments received by us, and we could be required to curtail or cease our operations.

Risks Related to Our Ordinary Shares and this Offering

The market price of our ordinary shares may be volatile and may fluctuate in a way that is disproportionate to our operating performance.

The public market for our ordinary shares has a limited history. Our ordinary shares began trading on the Nasdaq Capital Market on November 5, 2021. The daily trading volume and our per ordinary share market price may decrease significantly after the date of this annual report. The value of our ordinary shares could decline due to the impact of any of the following factors upon the market price of our ordinary shares:

- sales or potential sales of substantial amounts of our ordinary shares;

- announcements about us or about our competitors;
- litigation and other developments relating to our intellectual property or other proprietary rights or those of our competitors;
- conditions in the diagnostic test industry;
- governmental regulation and legislation;
- variations in our anticipated or actual operating results;
- change in securities analysts' estimates of our performance, or our failure to meet analysts' expectations;
- change in general economic trends; and
- investor perception of our industry or our prospects.

Many of these factors are beyond our control. These fluctuations often have been unrelated or disproportionate to the operating performance of these companies. As a consequence, there may be periods of several days or more when trading activity in our shares is minimal or non-existent, as compared to a seasoned issuer which has a large and steady volume of trading activity that will generally support continuous sales without an adverse effect on share price. A broad or active public trading market for our ordinary shares may not develop or be sustained.

You may experience dilution of your ownership interests if we issue additional ordinary shares or preferred shares.

In the future, we may issue our authorized but previously unissued equity securities, resulting in the dilution of the ownership interests of our present shareholders. We are authorized to issue an aggregate of 48,550,000 ordinary shares. As of April 15, 2022, we had 13,960,487 ordinary shares outstanding, approximately 28.8% of the ordinary shares that we are authorized to issue. In addition, we had 3,707,500 warrants exercisable into ordinary shares outstanding and 1,794,650 options exercisable into ordinary shares outstanding as of April 15, 2022.

We may issue additional ordinary shares or other securities that are convertible into or exercisable for ordinary shares in order to raise additional capital, or in connection with hiring or retaining employees, directors, or consultants, or in connection with future acquisitions of licenses to technology or diagnostic tests in connection with future business acquisitions, or for other business purposes. The future issuance of any such additional ordinary shares or other securities, including those underlying the warrants and options we have issued and granted, would dilute the voting power of our current stockholders, could dilute the net tangible book value per share at the time of such future issuance and may create downward pressure on the trading price of our ordinary shares.

We may also issue preferred shares having rights, preferences, and privileges senior to the rights of our ordinary shares with respect to dividends, rights to share in distributions of our assets if we liquidate our company, or voting rights. Any preferred shares may also be convertible into ordinary shares on terms that would be dilutive to holders of ordinary shares.

We do not intend to pay dividends, and there will thus be fewer ways in which you are able to make a gain on your investment.

We have never paid any cash or stock dividends, and we do not intend to pay any dividends for the foreseeable future. To the extent that we require additional funding currently not provided for in our financing plan, our funding sources may prohibit the payment of any dividends. Because we do not intend to declare dividends, any gain on your investment will need to result from an appreciation in the price of our ordinary shares. There will therefore be fewer ways in which you are able to make a gain on your investment. Our articles of association prescribe that any profits in any financial year will be distributed first to holders of preferred shares, if outstanding.

FINRA sales practice requirements may limit your ability to buy and sell our ordinary shares, which could depress the price of our shares.

FINRA rules require broker-dealers to have reasonable grounds for believing that an investment is suitable for a customer before recommending that investment to the customer. Prior to recommending speculative low-priced securities to their non-institutional customers, broker-dealers must make reasonable efforts to obtain information about the customer's financial status, tax status and investment objectives, among other things. Under interpretations of these rules, FINRA believes that there is a high probability such speculative low-priced securities will not be suitable for at least some customers. Thus, FINRA requirements may make it more difficult for broker-dealers to recommend that their customers buy our ordinary shares, which may limit your ability to buy and sell our shares, have an adverse effect on the market for our shares and, thereby, depress their market prices.

Volatility in our ordinary shares price may subject us to securities litigation.

The market for our ordinary shares may have, when compared to seasoned issuers, significant price volatility, and we expect that our share price may continue to be more volatile than that of a seasoned issuer for the indefinite future. In the past, plaintiffs have often initiated securities class action litigation against a company following periods of volatility in the market price of its securities. We may, in the future, be the target of similar litigation. Securities litigation could result in substantial costs and liabilities and could divert management's attention and resources.

We are a foreign private issuer within the meaning of the rules under the Exchange Act, and as such we are exempt from certain provisions applicable to U.S. domestic public companies.

We are a foreign private issuer within the meaning of the rules under the Securities Exchange Act of 1934, as amended (the "Exchange Act"). As such, we are exempt from certain provisions applicable to U.S. domestic public companies. For example:

- we are not required to provide as many Exchange Act reports, or as frequently, as a domestic public company;
- for interim reporting, we are permitted to comply solely with our home country requirements, which are less rigorous than the rules that apply to domestic public companies;
- we are not required to provide the same level of disclosure on certain issues, such as executive compensation;
- we are exempt from provisions of Regulation FD aimed at preventing issuers from making selective disclosures of material information;
- we are not required to comply with the sections of the Exchange Act regulating the solicitation of proxies, consents or authorizations in respect of a security registered under the Exchange Act; and
- we are not required to comply with Section 16 of the Exchange Act requiring insiders to file public reports of their share ownership and trading activities and establishing insider liability for profits realized from any "short-swing" trading transaction.

Our shareholders may not have access to certain information they may deem important and are accustomed to receiving from U.S. reporting companies.

As an "emerging growth company" under applicable law, we will be subject to lessened disclosure requirements. Such reduced disclosure may make our ordinary shares less attractive to investors.

For as long as we remain an "emerging growth company", as defined in the Jumpstart Our Business Startups Act of 2012 (the "JOBS Act"), we will elect to take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not "emerging growth companies", including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in our periodic reports, and exemptions from the requirements of holding a non-binding advisory vote on executive compensation and shareholder approval of any golden parachute payments not previously approved. Because of these lessened regulatory requirements, our shareholders would be left without information or rights available to shareholders of more mature companies. If some investors find our ordinary shares less attractive as a result, there may be a less active trading market for such securities and their market prices may be more volatile.

We incur significant costs as a result of being a public company, which costs will grow after we cease to qualify as an "emerging growth company."

We incur significant legal, accounting and other expenses as a public company that we did not incur as a private company. The Sarbanes-Oxley Act, as well as rules subsequently implemented by the SEC and the Nasdaq Capital Market, impose various requirements on the corporate governance practices of public companies. We are an "emerging growth company," as defined in the JOBS Act and will remain an emerging growth company until the earlier of (1) (a) December 31, 2026, (b) the last day of the fiscal year in which we have

total annual gross revenue of at least \$1.07 billion, or (c) the last day of the fiscal year in which we are deemed to be a large accelerated filer, which means the market value of our ordinary shares that is held by non-affiliates exceeds \$700 million as of the prior June 30th, and (2) the date on which we have issued more than \$1.0 billion in non-convertible debt during the prior three-year period. An emerging growth company may take advantage of specified reduced reporting and other requirements that are otherwise applicable generally to public companies. These provisions include exemption from the auditor attestation requirement under Section 404 in the assessment of the emerging growth company's internal control over financial reporting and permission to delay adopting new or revised accounting standards until such time as those standards apply to private companies.

Compliance with these rules and regulations increases our legal and financial compliance costs and makes some corporate activities more time-consuming and costly. After we are no longer an emerging growth company, we expect to incur significant expenses and devote substantial management effort toward ensuring compliance with the requirements of Section 404 and the other rules and regulations of the SEC. For example, as a public company, we have been required to increase the number of independent directors and adopt policies regarding internal controls and disclosure controls and procedures. We have incurred additional costs in obtaining director and officer liability insurance. In addition, we incur additional costs associated with our public company reporting requirements. It may also be more difficult for us to find qualified persons to serve on our board of directors or as executive officers. We are currently evaluating and monitoring developments with respect to these rules and regulations, and we cannot predict or estimate with any degree of certainty the amount of additional costs we may incur or the timing of such costs.

If we are, or were to become, a passive foreign investment company (a "PFIC") for U.S. federal income tax purposes, U.S. investors in our ordinary shares would be subject to certain adverse U.S. federal income tax consequences.

In general, a non-U.S. corporation will be a PFIC for any taxable year if (i) 75% or more of its gross income consists of passive income or (ii) 50% or more of the average quarterly value of its assets consists of assets that produce, or are held for the production of, passive income. We do not expect to be a PFIC for our current taxable year or in the foreseeable future. However, there can be no assurance that we will not be considered a PFIC for any taxable year. If we were a PFIC for any taxable year during which a U.S. investor held ordinary shares, such investor would be subject to certain adverse U.S. federal income tax consequences, such as ineligibility for any preferred tax rates on capital gains or on actual or deemed dividends, an additional interest charge on certain taxes treated as deferred, and additional reporting requirements under U.S. federal income tax laws and regulations. If we are characterized as a PFIC, a U.S. investor may be able to make a "mark-to-market" election with respect to our ordinary shares that would alleviate some of the adverse consequences of PFIC status. Although U.S. tax rules also permit a U.S. investor to make a "qualified electing fund" election with respect to the shares of a non-U.S. corporation that is a PFIC if the non-U.S. corporation provides certain information to its investors, we do not currently intend to provide the information that would be necessary for a U.S. investor to make a valid "qualified electing fund" election with respect to our ordinary shares.

ITEM 4. INFORMATION ON THE COMPANY

A. History and development of the Company

We are a public company under Dutch law. We were incorporated on March 8, 2021 as a private limited liability company (*besloten vennootschap met beperkte aansprakelijkheid*) under Dutch law. We were formed to acquire PharmGenomics GmbH ("PharmGenomics"), a German company with limited liability, and we acquired PharmGenomics on September 20, 2021. On November 9, 2021, we converted into a Dutch public company with limited liability (*naamloze vennootschap*). The address for our principal place of business is Robert Koch Strasse 50, 55129 Mainz, Germany, and the telephone number is +49 6131 5542860. Pharmgenomics GmbH changed its name subsequent to the acquisition to Mainz Biomed Germany GmbH.

We have registered our ordinary shares under the Exchange Act, and we intend to make our periodic reports and other information filed with or furnished to the SEC, pursuant to Section 13(a) or 15(d) of the Exchange Act, available free of charge through our website as soon as reasonably practicable after those reports and other information are electronically filed with or furnished to the SEC. The SEC maintains a website at <http://www.sec.gov> that contains reports and other information regarding issuers that file electronically with the SEC.

Information on our website or any other website is not incorporated by reference into this annual report and does not constitute a part of this annual report. We have included our website address as an inactive textual reference only.

B. Business Overview

General

We are a molecular genetic diagnostic company dedicated to commercializing our product portfolio in Europe, the United States and the rest of world. Our subsidiary Mainz Biomed Germany GmbH (f/k/a PharmGenomics), a German DIN EN ISO 13485-certified manufacturer of in-vitro diagnostic ("IVD") tests with its own molecular genetic laboratory, has developed several IVD tests for the European market since it was founded in 2008.

Our portfolio consists of the following products and product candidates:

- ColoAlert, our flagship product, a colorectal cancer ("CRC") screening stool-based DNA (deoxyribonucleic acid) test currently sold in Europe,
- PancAlert, a product candidate in an early stage of research for a pancreatic cancer screening test based on Real-Time Polymerase Chain Reaction ("PCR")-based multiplex detection of molecular-genetic biomarkers in stool samples and
- GenoStrip, a proposed platform technology, that we intend to license to third parties or discontinue in the near term in an early stage of research to detect pathogens or genetic aberrations in environments on a molecular genetic basis where a qualitative evaluation must be made in a short-time period.

About the Industry

The cancer industry can be divided into a diagnostics segment focused on detecting cancers, and a therapeutic segment focused on treating them. We are focused on the diagnostic aspect of the cancer industry.

For most cancer, early detection is lifesaving and for CRC, in particular, the symptoms are unclear and removal of cancer by surgery in the early stage is easy compared to treatment at a late stage. Screening of CRC is both lifesaving and cost saving. We compete with other entities developing and offering diagnostic tests to detect the presence of cancers. Our core product is a CRC screening stool DNA test, and we are in the early stages of researching a similar test for pancreatic cancer.

CRC are malignant tumors in the colon or rectum. These tumors usually develop from benign polyps, which over time degenerate and become cancerous. Between 5 and 15 years

may elapse between the development of CRC and the formation of metastases. One method for the categorization of cancer stages of CRC is referred to as Dukes' Stages which range from A, the least threatening, to D, the most severe. In Dukes' Stage A, the tumor is limited to the superficial cell layers of the intestinal mucosa. According to a 2018 report from the American Cancer Society, if patients are diagnosed at this stage, the 5-year survival rate is usually over 90%. In the course of the further stages, the tumor continuously grows into other tissue layers and spreads to the nearest lymph nodes. In the final Dukes' Stage D, the tumor metastasizes and affects other organs and thus minimize the 5-year survival rate to 8%. Because of the high survival rates in case of early detection, regular and accurate screening is essential. According to the Robert Koch Institute, relative 5-years survival rates in Germany are 63% for women and 62% for men.

According to the American Cancer Society, CRC is the third most-commonly diagnosed cancer and the second leading cause of cancer death in the world. According to the International Agency for Research on Cancer, the distribution of CRC cases varies widely, with more than two-thirds of all cases and about 60% of all deaths occurring in countries with a high or very-high human development index. According to an article in BMJ Journals, global cases of CRC are expected to increase by 60% to more than 2.2 million new cases and 1.1 million deaths by 2030. Across Europe, 378,445 new CRC cases were diagnosed in 2018, with more than 170,000 deaths. Therefore, in 2020 CRC was the second most common gender-unspecific cancer in Europe according to the European Commission. In the United States 141,074 new cases of CRC were reported in 2018, and 52,163 people died of this cancer according to the U.S. Cancer Statistics Working Group. For every 100,000 people, 37 new CRC cases were reported, with 13 deaths, and CRC is expected to cause about 52,980 deaths during 2021 in the United States.

A recent report by Fact.MR projects the global CRC diagnostics market to register an expansion at a CAGR of 8.5% from 2017 to 2022. Revenues from the global CRC diagnostics market are expected to surpass \$2 billion by the end of 2022.

In Europe, there are more than 194 million people over the age of 50 years. A Global Market Insights Inc. report from 2018 forecasts a European market volume of 50 million screening tests annually by 2023.

Approximately 19 million colonoscopies were performed in 2017 in the United States, according to iData Research. With nearly 40% of the US population aged between 50 and 75 years having undergone no CRC screening at all, there is still plenty of potential for highly sensitive, non-invasive tests. With the core target group aged over 50 years growing from 112 million to 157 million individuals within the next 10 years, we believe that our addressable market in the United States alone will increase from \$3.7 billion to over \$5.2 billion annually.

Products and Product Candidates

We strive to make the diagnosis of various diseases more effective by using the latest genetic diagnostic technologies. Enabling earlier detection of these diseases allows for earlier and better therapy for affected individuals. In addition to offering the CRC screening test, ColoAlert, we are currently developing two product candidates, PancAlert and GenoStrip. We aim to use known and existing biomarkers (concepts) in applicable and reliable diagnostic tools.

ColoAlert

We offer a CE-IVD certified CRC diagnostic test, ColoAlert. We believe that molecular genetic stool tests like ColoAlert increase the participation rate in CRC screening and shift the detection of CRC to an earlier point of time which increases the likelihood of successful treatment of the cancer.

In the human intestines, epithelial skin cells are continuously shed into the stool. In addition to healthy cells, cells from polyps and colon cancer are also released. Using state-of-the-art genetic diagnostic methods, such as PCR analysis (a process used to rapidly make millions to billions of copies of a specific DNA sample, allowing for the amplification of a small sample of DNA to a large enough amount to study in detail), these shed cells can be isolated and examined for genetic changes.

ColoAlert is a multitarget test in which the stool sample is analyzed for genetic anomalies as well as for the presence of hidden blood, often called occult blood. The genetic analysis consists of the quantification of human DNA, the analysis of somatic point mutations in the KRAS (codon 12/13) and BRAF (codon 600) genes. An independent clinical test lead by Professor Matthias Dollinger and conducted with 566 patients by the University Hospitals in Leipzig and Halle-Wittenberg, Germany showed ColoAlert to have a sensitivity of 85% and a specificity of 92% while being as non-invasive as other stool tests and showing a very high patient satisfaction of 98%. Compared to the FITs reimbursed in Germany, this meant up to 60% less overseen CRCs. The genetic markers were chosen to complement the diagnostic accuracy of the occult blood test and lead to an increased clinical added value. Since the independent clinical study, we have updated the occult blood test component of ColoAlert to what we believe is a more accurate occult blood test in terms of sensitivity and specificity.

We target individuals covered by national CRC screening programs. Most screening programs recommend CRC screening starting at age 50. However, a trend exists to further lower the screening age. For example, the FDA recently recommended CRC screening starting at age 45. Due to the increasing prevalence of the disease in the younger population, we anticipate a further decrease in the screening age, especially for test methods such as ColoAlert that are, in principle, capable of detecting cancer at early stages. In addition to age, other personal characteristics in favor of CRC screening include a family predisposition to CRC, risk factors such as obesity, irritable bowel syndrome ("IBS"), inflammatory bowel disease ("IBD"), excessive meat, alcohol and nicotine consumption, and pre-existing conditions such as breast cancer or type 2 diabetes mellitus.

We license the ColoAlert test from a Norwegian research and development company, ColoAlert AS, pursuant to an exclusive licensing agreement dated January 1, 2019. Pursuant to the terms of our license, we pay ColoAlert AS 50% of the net profit that we generate from the ColoAlert test, in addition to a protection fee of €5 per test sold. The license has no fixed term but will be terminated if the quarterly fee paid to ColoAlert AS is less than €25,000 for each of the quarters ending on or prior to December 31, 2022 and €250,000 per quarter thereafter. On February 11, 2021, we obtained an option exercisable for three years to acquire the intellectual property for the ColoAlert test for (i) either a one-time cash payment of €2,000,000 or a €4,000,000 payment in ordinary shares at the valuation of our most recent financing plus (ii) protection fees of €5 per ColoAlert test sold. If we opt to make the one-time payment in cash, ColoAlert AS has the right to require us to pay the €2,000,000 in ordinary shares at the valuation of our most recent financing.

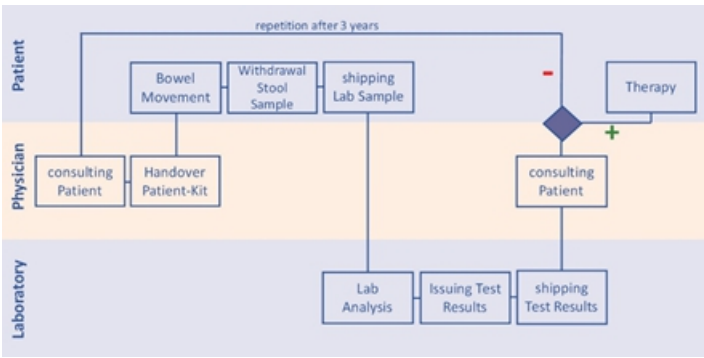
In the European Union, ColoAlert is a CE-IVD registered product under the current In-Vitro Diagnostics Directive 98/79/EC ("IVD-D"). Starting on May 26, 2022, IVD products in the European Union will be regulated by the In-Vitro Diagnostics Regulation, EU 2017/746 ("IVD-R"), which replaces the IVD-D. We are currently evaluating the necessary steps to meet the upcoming regulations for our ColoAlert product. ColoAlert is currently validated on the Roche LightCycler 480 II and Lightcycler v2.0. Mainz BioMed is planning to validate the test on additional real time PCR instruments used in many laboratories worldwide to allow a potential faster market penetration. We manufacture the ColoAlert IVD test kits at our facility in Mainz, Germany.

In January 2022, we entered into a Technology Rights Agreement related to a portfolio of novel mRNA biomarkers developed at the Université de Sherbrooke (the "UdeS Biomarkers"). Pursuant to the agreement, we acquired an exclusive unilateral option to acquire an exclusive license to the UdeS Biomarkers in exchange for a payment of €10,000 and an agreement to pay for the prosecution and maintenance of certain intellectual property relating to the UdeS Biomarkers. The option to license the technology is for one year, which period can be extended at our sole discretion for six additional months (the "Option Period"). If we include any of the licensed biomarkers in a future version of ColoAlert, we will also owe royalties to UdeS.

The UdeS Biomarkers are five gene expression biomarkers which have demonstrated a high degree of effectiveness in detecting CRC lesions including advanced adenomas ("AA"), a type of pre-cancerous polyp often attributed to this deadly disease. In a UdeS sponsored study evaluating these biomarkers, study results achieved overall sensitivities of 75% for AA and 95% for CRC, respectively, with a 96% specificity outcome.

We have a license during the Option Period to use the UdeS Biomarkers to further analyze their sensitivity and specificity. Depending on positive results from these further

studies, we intend to exercise the option to license the UdeS Biomarkers for future integration into ColoAlert. If we exercise the option, we will pay the licensor a royalty on all products incorporating the UdeS Biomarkers and we will pay for the prosecution and maintenance of patents relating to the UdeS Biomarkers.



Above is a typical process flow for the use of ColoAlert for Germany.

Typical process flow:

1. The patient is informed about the risk of CRC.
2. The physician discusses with the patient the need for a CRC test.
3. The physician provides the kit to the patient or the patient receives the kit shipped from the laboratory partner.
4. The patient collects the sample and ships the collected sample to the testing clinical laboratory.
5. The clinical laboratory tests the sample and provides the result to the ordering physician.
6. The ordering physician informs patient about the results and decides on next steps.

PancAlert

We are in the early stages of developing PancAlert, a stool-based screening test for the detection of pancreatic cancer. According to the Global Cancer Observatory, pancreatic cancer was diagnosed in over 460,000 patients worldwide in 2018. Due to the asymptomatic early stages, in most cases this disease is detected too late, making pancreatic cancer one of the most lethal malignant neoplasms with over 430,000 annual deaths according to the Global Cancer Observatory. The overall 5-year survival rate is approximately 8%, which is the lowest survival rate of all cancer types. On the other hand, the 5-year survival rate is around 56% if the pancreatic cancer is still in the early stages at the time of diagnosis. Studies have shown that the prognosis in asymptomatic patients, when who were diagnosed by chance during other examinations, is significantly better than in patients with characteristic symptoms such as rapid weight loss or back pain.

The mean age of onset is 71 years for men and 75 years for women . Similar to other cancers, age is an essential risk factor. Most patients are over 50, with most diagnoses occurring between the ages of 60 and 80. The fact that pancreatic cancer is the European Union’s third biggest cancer killer, despite being the seventh most common cancer, highlights the extremely poor outlook for patients. Although, the survival rate of pancreatic cancer patients has improved in the last few decades, there is still the urgent need for early diagnostic optimization.

A definitive diagnosis is currently made through a series of investigations, including imaging scans, blood tests and biopsy, which are usually only performed in symptomatic patients. However, recent research suggests that the disease can persist for a longer period of time without patients becoming symptomatic; providing an important opportunity for early detection. Because the initiation of pancreatic cancer occurs on a molecular level, genetic diagnostic methods can be a promising approach for early detection. The biomarkers associated with pancreatic cancer reach the stool, amongst other ways by the pancreatic juice, which enables a user-friendly sample collection. The development approach includes the selection and verification of a specific biomarker panel with the establishment of a suitable method for sample preparation, the establishment and validation of the detection and measurement technology with purchased or clinically defined samples (biopsies, pancreatic juice, stool and others), the transfer to routine diagnostics (stool) and the optimization and clinical evaluation as a potential screening tool for the early detection of pancreatic cancer.

Our goal is to make PancAlert the world’s first pancreatic cancer screening test based on Real-Time PCR-based multiplex detection of molecular-genetic biomarkers in stool samples. The most promising candidates for disease-specific biomarkers to date are KRAS, mBMP3, NDRG4, and GNAS codon 201. In addition, the platform technology used will enable simple integration of further biomarkers if indicated. The analysis of the results will be additionally facilitated by a specialized artificial intelligence solution. Based on the research progress in this project, we plan to initiate an initial pilot study with one or more selected clinical sites. We do not expect to conclude such studies prior to 2024 at the earliest. If the clinical pilot studies show promising results, we intend to start developing an IVD-R and FDA approvable product for the European market.

GenoStrip

We are in the early stages of developing a rapid and easy to use molecular lateral-flow test that we call GenoStrip. As a result of the outcome of that early research, we will consider developing the GenoStrip technology as a platform technology which combines the advantages of highly precise molecular genetics and the easy-to-handle usage of a customized lateral-flow-dipstick to provide molecular results in as little as 20 minutes, depending on the sample preparation method amplification system used. The target sequences (DNA or RNA) are amplified either way in single or multiplex amplification reactions.

If successful, the GenoStrip technology could be modified for various applications where qualitative evaluations have to be made within a short time frame, as for instance in the case of COVID-19 diagnosis, and other respiratory viruses, as well as pathogens causing sexually transmitted diseases or the detection of mutated or deleted genes.

Competitive Advantages & Operational Strengths

We face competition from providers of more traditional CRC screening diagnostics, such as colonoscopies, as well as other manufacturers of non-invasive stool- or blood-based tests. We believe the primary competitive factors for ColoAlert include but are not limited to:

- **Accuracy:** End-users want as accurate a result as possible without worrying about costs, hassle and time associated with false-negative and false-positive results. A report by Professor Dollinger found ColoAlert to have a specificity of 92%, above the 90% specificity requirement set by the European CRC screening guidelines, and has a sensitivity of 85%. Sensitivity defines how often a test correctly generates a positive result for the condition being tested. Specificity is the ability of the test to correctly identify those without the disease (true negative rate). Since that report, we have updated the occult blood test component of ColoAlert in a way that we believe will increase sensitivity and specificity. In January 2022, we entered into a Technology Rights Agreement by which we have a unilateral option to exclusively license certain biomarkers developed by the Université de Sherbrooke with the goal of further increasing the sensitivity and specificity of ColoAlert.
- **Time-to-result:** The faster the results of a diagnostic test are known; the sooner treatment may begin or the end user can gain ease of mind. Due to ColoAlert's simplicity of the testing procedure, the resultant turn-around time between the patient's decision and delivery of the test report can be as low as three days in Germany, which we believe is significantly shorter than most other tests.
- **Ease of use:** As many people will delay or avoid getting an invasive diagnostic test, such as a colonoscopy, the easier it is to take such a test, the higher the participation rates will be, which could mean more detection of cancer at earlier stages and higher rates of survival. ColoAlert is less invasive than traditional colonoscopies, requiring neither the drinking of barium (oral or suppository) the night prior to the test, nor prior fasting, and does not require a trip to a clinic or the administration of anesthesia. Compared to blood-based tests, stool tests can be performed at home and do not require the patient to visit their physician.
- **Executive team:** Our leadership team and advisors have extensive experience developing and commercializing innovative diagnostic products globally. We have strong relationships with government organizations and universities in Europe.
- **Research and Development:** We are confident that we have organized a strong team to front our research and development. Our research and development efforts have been supported by a grant of up to approximately €440,000 from the German Federal Ministry of Research and Education for the development of PancAlert, a non-invasive product candidate to detect pancreatic cancers, and a grant of up to approximately €205,000 from the European Fund for Economic and Regional Development for the development of GenoStrip, a product candidate for a rapid and easy to use molecular lateral-flow test.

Strategy

We intend to make ColoAlert the global CRC screening market leader by providing the best performance at an affordable cost. To fulfil this goal efficiently, our sales strategy is primarily based on collaborations with large laboratory chains. This distribution strategy is chosen because laboratories typically have a large customer base of physicians as well as a strong sales team. This can increase awareness of ColoAlert within the physician community in a cost-effective manner. At the same time, it offers the opportunity for accelerated product rollouts in foreign markets, as large laboratory chains operate across Europe or worldwide and successful products are often distributed within the laboratory chain. Laboratory partners benefit from the introduction and distribution of ColoAlert especially from the increased medical added value, the positioning as innovation leaders and from, we believe, significantly higher margins compared to conventional stool tests such as FIT. In December 2021, one of the laboratory chains in our distribution network, GANZIMMUN Diagnostics AG, found the association with ColoAlert so beneficial that they have agreed to offer ColoAlert as a co-branded product. We believe that this distribution approach also provides a strong business differentiation in the United States from the Cologuard, a test offered by Exact Sciences Corporation. Cologuard is performed exclusively in Exact Sciences' in-house laboratories and therefore other laboratories currently do not have access to a multitarget stool test. By providing the ColoAlert test kits, other laboratories can also offer highly sensitive, non-invasive CRC screening to their affiliated physicians and their patients.

To introduce ColoAlert into the United States and potentially other markets like China, extensive regulatory studies are required. We are actively exploring the required regulatory path for the United States.

Therefore, we intend to use the proceeds from this offering to:

- Expand the commercial opportunity of our ColoAlert product in Europe by expanding our commercial team and partnerships;
- Prepare and execute a comprehensive clinical and regulatory strategy to achieve market authorization from the FDA to use ColoAlert as a screening test for CRC in the United States; and
- Continue research and development of PancAlert.

Expansion of ColoAlert in Europe

There are currently nearly 400 medical care centers with a laboratory focus in Germany, of which over 60 have a molecular genetic laboratory in house. Approximately 50% of the market share is held by five laboratory chains (Sonic, Limbach, Synlab, Amedes and LADR), rendering activities towards those and their large networks of physicians especially attractive. Two of these five laboratory chains are currently our customers. We plan on securing additional partner laboratories to market, as we did by adding GANZIMMUN Diagnostics AG to our distribution network in December 2021, and to sell our ColoAlert product through sales representatives. Partner laboratories will, once part of our distribution network, receive support from us for the proper administration of the product in the client's clinical laboratory. This validation process for new IVD products is being performed every day by all other diagnostic companies in Germany (e.g. Roche, Abbott, Siemens). If needed, we will also provide co-branded marketing materials.

We primarily sell the ColoAlert IVD test kits to German clinical reference laboratories. The reference laboratories provide the patient kit and accompanying marketing materials, to their affiliated physicians and educate them about the clinical advantages of ColoAlert. The laboratories perform the diagnostic analysis and report the results to the physicians.

We also initiated a pilot program to allow patients to use the ColoAlert website for ordering a patient kit online. The collected samples are sent by the patient directly to one of our laboratory partners, or our own clinical laboratory. We plan to conduct joint marketing activities with the reference labs to connect patients and physicians supported by the newly established online portal www.gemeinsam-gegen-darmkrebs.de.

Our primary market is currently Germany, and we intend to expand to other German-speaking countries. After the rollout in the German-speaking region, we intend to launch ColoAlert in other western European markets, particularly in the United Kingdom, with its innovation-friendly National Health Service, followed by countries such as Italy, Spain or in Scandinavia.

In the coming year, we seek to expand the current European sales team with strong diagnostic sales experience. The sales team will focus on sales of our ColoAlert test to clinical laboratories that perform diagnostics tests ordered by physicians. To ensure that the clinical laboratory sales teams approach the primary care physician with the highest possible efficiency and effectiveness inside their respective laboratory network, we are planning to conduct training for sales representatives, seminars for physicians and joint marketing campaigns to expand our product awareness. We will also look into partnering with third parties or outsourcing parts of the sales organization that directly visit with physicians.

Entry into the U.S. Market

We plan to employ a product and marketing strategy in the United States that is substantially similar to what we use in Europe. Prior to employing these strategies, we will seek to sell the ColoAlert test as a test kit to clinical laboratories that are certified by the Secretary of the Department of Health and Human Services under the Clinical Laboratory Improvement Amendments of 1988 ("CLIA labs") requiring FDA market authorization. This might be a comparably fast entry option, as the top five laboratory chains in the United States had revenues of nearly USD 38 billion in 2020. Alternatively or in addition, we could offer ColoAlert, or as a laboratory developed test offered by the Mainz BioMed clinical laboratory governed under US Centers for Medicare and Medicaid Services ("CMS"). We plan to explore the required clinical and regulatory path to submit ColoAlert to the FDA to achieve a CRC screening claim for asymptomatic patients who are at average risk for CRC, aged 45 to 80.

We expect to conduct extensive clinical trials considering the desired CRC screening claims. The duration of the study will be defined by the required number of patients to be enrolled. Cologuard, the main competitor in the United States, has performed multiple large studies which took several years to execute followed by a PMA submission. In addition, we will evaluate achieving claims for early identification of cancerous polyps and advanced adenomas. In preparation for our clinical trials, we appointed a Vice President of Regulatory Affairs to oversee the process and as well as our application to the FDA to achieve a CRC screening claim.

During this market preparation period market conditions may change, existing competitors may improve their products or new competitors may become commercially active which may force us to adjust our future commercial strategy if the FDA eventually authorizes the product. We may consider manufacturing our ColoAlert test kits as private label products to be sold to labs. In this case, we likely would not undertake any marketing efforts in the United States to promote it to physicians and patients but expect our business partner to take on this obligation.

Research and Development

Our research and development strategy has been centered on developing our product candidates PancAlert, a proposed stool-based screening test for pancreatic cancer, and GenoStrip, a proposed platform technology to detect pathogens. Both of these product candidates are in the early stages of development and might never become products. As of January 2022, our research and development efforts also include conducting and overseeing clinical trials on the UdeS biomarkers that we have an option to exclusively license.

Our research and development team is located at our facilities in Mainz, Germany, and consists of 7 employees and independent contractors as of December 31, 2021. We currently do not have any patents or any pending patent applications protecting our intellectual property, but if our research and development efforts are successful for ColoAlert, PancAlert or GenoStrip, we intend to file patent applications to protect the intellectual property derived from such research and development.

We have received government grants as part of our research and development programs, including approximately \$299,000 in our fiscal year ended December 31, 2021 and \$224,000 in our fiscal year ended December 31, 2020.

Government Regulation

In-vitro diagnostic devices are regulated by the governments in the areas where such products are sold. Consequently, there is no uniform set of regulations governing our products and product candidates. We summarize below, the material governmental regulations in Europe, our principal market, and the United States, the next market that we seek to enter.

Europe

Currently in Europe, medical devices such as ColoAlert are regulated by the IVD-D requiring CE-Mark through self-certification. Under this system, developers and manufacturers must operate a Quality System and validate medical devices in a limited clinical trial to demonstrate the manufacturer has met analytical and clinical performance criteria. We have implemented an International Organization for Standardization standard — ISO 13485 — quality management system for the design and manufacture of medical devices. ISO 13485 addresses managerial awareness of regulatory requirements, control systems, inspection and traceability, device design, risk and performance criteria as well as verification for corrective and preventative measures for device failure. Medical device companies such as ours are subject to pre-market compliance assessments from Notified Bodies, a certification organization which the national authority (the competent authority) of a European Union member state designates to carry out one or more of the conformity assessment procedures. ISO 13485 certification establishes conformity to specific European Union directives related to medical devices and allows CE Marking and sale of the device.

The new European In Vitro Diagnostic Regulation (EU 2017/746), or the IVD-R, became effective as of May 25, 2017, marking the start of a transition period for manufacturers selling IVD devices into Europe. The IVD-R, which replaces IVD Directive (98/79/EC), or the IVD-D, has a transition period of five years, after which the IVD-R will apply in full, and no new applications pursuant to the IVD-D will be accepted. Manufacturers have the duration of the five-year transition period to update their technical documentation and processes to meet the new, more stringent EU regulatory requirements. We believe that the most challenging areas under the IVD-R will be regarding the classification of products, which will bring almost all IVDs under the direct control of Notified Bodies, and the performance evaluation of IVDs, which will not only include the classic clinical performance and analytical performance but also scientific validity, the role and responsibilities of the economic actors of the supply chain, the traceability and the transparency of the devices with, in particular, the introduction of the UDI-system and an expanded EUDAMED database.

Notified Bodies can begin auditing to the IVD-R once they have been designated as a Notified Body under the IVD-R by their Competent Authority. For now, we expect the first Notified Bodies to be notified according to the IVD-R by the end of 2019, and as of this filing TÜV SÜD has been designated as a Notified Body under the IVDR. In practice, it will not be possible to CE mark a product according to the IVDR beforehand. For Class C devices (such as ColoAlert), the conformity assessment procedure will be a combination of the Quality Management System audits and Technical Documentation assessments. The assumed assessment time needed for a Technical Documentation assessment of a Class C device currently is expected to last from about nine months. We have already begun discussions with the TÜV SÜD in order to ensure compliance with the IVD-R as soon as possible.

We believe that we have structured our business operations to comply with applicable legal requirements. However, it is possible that governmental entities or other third parties could interpret these laws differently and assert otherwise, which could have a material adverse impact on our business.

United States

U.S. Food and Drug Administration

Obtaining FDA market authorization for our ColoAlert test is critical to our strategy. We intend to shortly start the process of seeking a premarket approval (PMA) for our ColoAlert test.

Under the FDA's regulatory framework, *in vitro* diagnostic devices (IVDs), including tests that can be used in the diagnosis or detection of cancer such as ColoAlert, are a type of medical device. The FDA categorizes medical devices into one of three classes — class I, II, or III — based on the risks presented by the device and the regulatory controls necessary to provide a reasonable assurance of the device's safety and effectiveness. Devices deemed by FDA to pose the greatest risks, such as life sustaining, life supporting or some implantable devices, or devices that have a new intended use, or use advanced technology that is not substantially equivalent to that of a legally marketed device, are placed in Class III, requiring approval of a PMA. We believe that ColoAlert would be a Class III IVD, as this is consistent with the prior FDA approval of similar devices, such as Cologuard. Some pre-amendment devices are unclassified, but are subject to FDA's premarket notification and clearance process in order to be commercially distributed.

Class III devices generally require PMA approval before they can be marketed. Obtaining PMA approval requires the submission of "valid scientific evidence" to FDA to support a finding of a reasonable assurance of the safety and effectiveness of the device. A PMA must provide complete analytical and clinical performance data and also information about the device and its components regarding, among other things, device design, manufacturing, and labeling. Following receipt of a PMA, FDA determines whether the application is sufficiently complete to permit a substantive review. If FDA accepts the application for review, it has 180 days under the FDC Act to complete its review of a PMA, although in practice, FDA's review often takes significantly longer, and can take up to several years.

An advisory panel of experts from outside FDA may be convened to review and evaluate the application and provide recommendations to FDA as to the approvability of the device. FDA may or may not accept the panel's recommendation. As part of FDA's review of a PMA, FDA will typically inspect the manufacturer's facilities for compliance with Quality System Regulation (QSR) requirements, which impose requirements related to design controls, manufacturing controls, documentation, and other quality assurance procedures.

FDA will approve the new device for commercial distribution if it determines that the data and information in the PMA constitute valid scientific evidence and that there is reasonable assurance that the device is safe and effective for its intended use(s). FDA may approve a PMA with post-approval conditions intended to ensure the safety and effectiveness of the device, including, among other things, restrictions on labeling, promotion, sale and distribution, and collection of long-term follow-up data from patients in the clinical study that supported PMA approval or requirements to conduct additional clinical studies post-approval. FDA may condition PMA approval on some form of post-market surveillance when deemed necessary to protect the public health or to provide additional safety and efficacy data for the device in a larger population or for a longer period of use. In such cases, the manufacturer might be required to follow certain patient groups for a number of years and to make periodic reports to FDA on the clinical status of those patients. Failure to comply with the conditions of approval can result in material adverse enforcement action, including withdrawal of the approval.

Certain changes to an approved device, such as changes in manufacturing facilities, methods, or quality control procedures, or changes in the design performance specifications, which affect the safety or effectiveness of the device, require submission of a PMA supplement. PMA supplements often require submission of the same type of information as a PMA, except that the supplement is limited to information needed to support any changes from the device covered by the original PMA and may not require as extensive clinical data or the convening of an advisory panel. Certain other changes to an approved device require the submission of a new PMA, such as when the design change causes a different intended use, mode of operation, and technical basis of operation, or when the design change is so significant that a new generation of the device will be developed, and the data that were submitted with the original PMA are not applicable for the change in demonstrating a reasonable assurance of safety and effectiveness.

The studies required in connection with our seeking FDA approval of our technologies will be costly and time-intensive. FDA might not ultimately approve any PMA submitted by us in a timely manner or at all.

Clinical Trials

Clinical trials are usually required to support a premarket approval application. If the device presents a "significant risk," as defined by the FDA, to human health, the FDA requires the device sponsor to file an IDE application with the FDA and obtain IDE approval prior to commencing the human clinical trials. The investigational device exemption application must be supported by appropriate data, such as animal and laboratory testing results, showing that it is safe to test the device in humans and that the testing protocol is scientifically sound. The investigational device exemption application must be approved in advance by the FDA for a specified number of patients, unless the product is deemed a "non-significant risk" device and eligible for more abbreviated investigational device exemption requirements. Clinical trials for a significant risk device may begin once the investigational device exemption application is approved by the FDA and the appropriate institutional review boards at the clinical trial sites. Our clinical trials must be conducted in accordance with FDA regulations and federal and state regulations concerning human subject protection, including informed consent and healthcare privacy. A clinical trial may be suspended by the FDA or the investigational review board at any time for various reasons, including a belief that the risks to the study participants outweigh the benefits of participation in the study. Even if a study is completed, the results of our clinical testing may not demonstrate the safety and efficacy of the device, or may be equivocal or otherwise not be sufficient to obtain approval of our product.

Laboratory Certification, Accreditation and Licensing

If we operate clinical laboratories in the United States, we will also be subject to U.S. and state laws and regulations regarding the operation of clinical laboratories. Federal Clinical Laboratory Improvement Amendments (CLIA) requirements and laws of certain other states impose certification requirements for clinical laboratories, and establish standards for quality assurance and quality control, among other things. Clinical laboratories are subject to inspection by regulators, and to sanctions for failing to comply with applicable requirements. Sanctions available under CLIA include prohibiting a laboratory from running tests, requiring a laboratory to implement a corrective plan, and imposing civil monetary penalties. If we fail to meet any applicable requirements of CLIA or state law, that failure could adversely affect any future CMS consideration of our technologies, prevent their approval entirely, and/or interrupt the commercial sale of any products and otherwise cause us to incur significant expense.

HIPAA and Other Privacy Laws

The Health Insurance Portability and Accountability Act of 1996, or HIPAA, established for the first time comprehensive protection for the privacy and security of health information. The HIPAA standards apply to three types of organizations, or "Covered Entities": health plans, healthcare clearinghouses, and healthcare providers that conduct certain healthcare transactions electronically. Covered Entities and their business associates must have in place administrative, physical, and technical standards to guard against the misuse of individually identifiable health information. If we are able to commercialize our ColoAlert test, we might perform activities that may implicate HIPAA, such as providing clinical laboratory testing services or entering into specific kinds of relationships with a Covered Entity or a business associate of a Covered Entity.

Federal and State Billing and Fraud and Abuse Laws

Antifraud Laws/Overpayments. If our ColoAlert test is successfully accepted by federal and state healthcare programs, we will be subject to numerous federal and state antifraud and abuse laws. Many of these antifraud laws are broad in scope, and neither the courts nor government agencies have extensively interpreted these laws. Prohibitions under some of these laws include:

- the submission of false claims or false information to government programs;

- deceptive or fraudulent conduct;
- excessive or unnecessary services or services at excessive prices; and
- prohibitions in defrauding private sector health insurers.

We could be subject to substantial penalties for violations of these laws, including denial of payment and refunds, suspension of payments from Medicare, Medicaid or other federal healthcare programs and exclusion from participation in the federal healthcare programs, as well as civil monetary and criminal penalties and imprisonment. Numerous federal and state agencies enforce the antifraud and abuse laws. In addition, private insurers may also bring private actions. In some circumstances, private whistleblowers are authorized to bring fraud suits on behalf of the government against providers and are entitled to receive a portion of any final recovery.

Federal and State "Self-Referral" and "Anti-kickback" Restrictions

If we or our operations are found to be in violation of applicable laws and regulations prohibiting improper referrals for healthcare services or products, we may be subject to penalties, including civil and criminal penalties, damages, fines, exclusion from participation in U.S. federal or state health care programs, and the curtailment or restructuring of our operations.

Anti-Kickback Statute. The federal Anti-Kickback Statute prohibits persons from knowingly and willfully soliciting, receiving, offering or paying remuneration, directly or indirectly, to induce either the referral of an individual, or the furnishing, recommending, or arranging for a good or service, for which payment may be made under a federal healthcare program, such as the Medicare and Medicaid programs. The term "remuneration" is not defined in the federal Anti-Kickback Statute and has been broadly interpreted to include anything of value, including for example, gifts, discounts, the furnishing of supplies or equipment, credit arrangements, payments of cash, waivers of payment, ownership interests and providing anything at less than its fair market value. Sanctions for violations of the federal Anti-Kickback Statute may include imprisonment and other criminal penalties, civil monetary penalties and exclusion from participation in federal healthcare programs. Many states have also adopted laws similar to the federal Anti-Kickback Statute, some of which apply to the referral of patients for healthcare items or services reimbursed by any source, not only the Medicare and Medicaid programs, and do not contain identical safe harbors.

Self-Referral law. The federal "self-referral" law, commonly referred to as the "Stark" law, provides that physicians who, personally or through a family member, have ownership interests in or compensation arrangements with a laboratory are prohibited from making a referral to that laboratory for laboratory tests reimbursable by Medicare, and also prohibits laboratories from submitting a claim for Medicare payments for laboratory tests referred by physicians who, personally or through a family member, have ownership interests in or compensation arrangements with the testing laboratory. The Stark law contains a number of specific exceptions which, if met, permit physicians who have ownership or compensation arrangements with a testing laboratory to make referrals to that laboratory and permit the laboratory to submit claims for Medicare payments for laboratory tests performed pursuant to such referrals. We are subject to comparable state laws, some of which apply to all payors regardless of source of payment, and do not contain identical exceptions to the Stark law.

Any action against us for violation of these or similar foreign laws, even if we successfully defend against it, could cause us to incur significant legal expenses and divert our management's attention from the operation of our business. Moreover, achieving and sustaining compliance with applicable federal and state privacy, security and fraud laws may prove costly.

Sunshine Act

In 2010, Congress enacted a statute commonly known as the Sunshine Act, which aims to promote transparency. The Sunshine Act requires manufacturers of drugs, devices, biologicals and medical supplies covered by Medicare, Medicaid or the Children's Health Insurance Program, or CHIP, to report annually to CMS any payments or other transfers of value made to physicians and teaching hospitals, with limited exceptions. Manufacturers must also disclose to CMS any physician ownership or investment interests.

Competition

Our principal product, ColoAlert, competes with other methods of CRC screening, such as the colonoscopy or the FIT test. The current standard for CRC screening test is the colonoscopy, although we also compete with non-invasive CRC screening tests. In addition to these widespread, traditional screening tests, we also compete with companies that provide or are developing novel CRC screening tests.

Colonoscopy

The colonoscopy was established over 50 years ago and is used by countless physicians worldwide. The colonoscopy is an invasive procedure in which the inner wall of the intestine is examined by a physician using an endoscope. Preparation requires patients to undergo bowel cleansing at least the day prior to the procedure. Colonoscopy is a painful process and associated with risk of punctuating the colon. An experienced scopeist will perform the process with less pain and higher detection rate. The average detection rate of colonoscopy is approximately 95%.

The compliance rate for colonoscopy in Germany even after a consultation with a physician is a mere 16%. The occurrence of false-positive results is not possible due to the nature of the method. Usually, national screening programs suggest a screening interval of 10 years for this method. Because of the invasive procedure and the prior bowel cleansing, this method has a patient acceptance rate of less than 20%. The cost of colonoscopy can vary depending on the region. In Germany, average total costs amount to approximately €220, which corresponds to €22 annually.

Any developments that result in the reduction of the cost of colonoscopies, the accuracy of their results or the ease of use may not be transferable to IVD tests.

Occult blood tests

With Fecal Immunochemical Tests ("FITs"), a patient's stool sample can be examined for hidden, or occult, blood in a laboratory which can be a symptom of CRC. Unfortunately, occult blood is often only present in the later stages of the disease. There is no need for patients to prepare prior to sample collection, which leads to a high patient acceptance. According to IKK Südwest, when coordinated by a centralized invitation to screening, participation rates can get as high as 73%. Since this method can only provide an indirect indication of CRC via fecal blood, the sensitivity normally hovers around 65% with a false-positive rate around 5% per an article published by the American Gastroenterological Association. Since this method depends on the presence of a blood signal and many tumors do not bleed in the early stages, many affected individuals are diagnosed in later stages of the disease which leads to lower than 5-year survival rates and higher treatment costs. This current state of international screening programs suggests a need for more sensitive non-invasive screening tools. The recommended screening interval for FITs is normally yearly. The average reimbursement for occult blood tests is €14 in Germany and \$19.92 based on the Current Procedural Terminology (CPT) code 82274 in the United States.

Entities Providing Screening Tests

We compete with other entities that offer other non-invasive screening tests. Most of our current and potential competitors in Europe and the United States have significantly greater financial, technical, manufacturing, marketing, and other resources than we have and consequently may have better and more competitive products, services, marketing or distribution. Most of our competitors have more extensive customer bases and broader customer and industry relationships than we do. In addition, many of these companies have longer operating histories and greater name recognition than we do. Our competitors may be in a stronger position to respond quickly to new technologies and may be able to design, develop, market and sell their products more effectively.

Entities producing or developing CRC screening tests with which we compete include:

- Exact Sciences: The most established of the entities that we compete with is Exact Sciences, a publicly traded molecular diagnostic company focusing on the early detection of various cancers, which manufactures Cologuard and conducts the analysis of the tests. Cologuard is also a stool-based CRC screening test, and it achieves a sensitivity of 92% and a specificity of 87% per a study published in the New England Journal of Medicine. The average reimbursement is about \$500, which is equivalent to approximately \$166 annually when used in the recommended three-year screening interval. Exact Sciences is currently pursuing the goal of further expanding the market share it has gained in the United States, broadening its relationships with relevant health care provider and building a diversified product portfolio in the oncology screening space through targeted acquisitions. Our ColoAlert product uses three of the four biomarkers used in ColoGuard. We ask for a significantly smaller stool sample for ColoAlert.
- Epigenomics AG, which focuses on the development of blood tests for cancer detection. The CRC test "Epi proColon", one of its two approved products approved in the United States and the European Union, is a blood-based test that achieves a sensitivity of 68% with a specificity of 80%.
- Novigenix SA, a Swiss company specializing in the development of immuno-transcriptomics solutions. Novigenix's LIToSeek Platform is designed to provide information for early cancer detection, disease progression and therapy selection. For CRC screening, Novigenix has developed the Colox blood test, which is currently available on the Swiss market. It achieved a sensitivity of 78% and a specificity of 92% in a clinical study.
- Agena Biosciences Inc., a U.S. company active in the field of genetic diagnostics. The company's core product is its proprietary MassArray platform. This offers laboratory customers the possibility to provide rapid and broad genetic analysis. From the large number of panels, the UltraSeek Colon Panel initially shows competitive potential. This is used for the investigation of disease progression and resistance of CRC. As this product is not suitable for CRC screening, it is not yet a direct competitor to ColoAlert, but could be relevant through a future product variation.
- Schebo AG, a German company, has developed a Tumor M2-PK (Pyruvatekinase M2) based test, a biomarker that is only expressed in tumor tissue in adult humans. M2-PK can be detected in stool as well as in EDTA blood plasma and thus serves as an indicator of cancer. In a clinical study, in the regular combination with an occult blood test, it showed a high sensitivity of over 90%, while its specificity was below 70%.
- CellMaxLife, a liquid biopsy company focused on blood sample-based cancer screening. The company has no available products on the market yet, but is currently working on the development of the CRC screening test "FirstSight", which screens patients' blood sample for circulating gastrointestinal epithelial cells (CECs) and somatic mutations of cell-free tumor DNA (ctDNA).
- GRAIL, Inc., which develops products based on next-generation sequencing (NGS) for the early detection of cancer. The blood-based screening test "Galleri" is the company's current core product. According to the company, this test can detect over 50 types of cancer. The list price for screening with Galleri is \$959. GRAIL recommends using Galleri only in combination with conventional screening methods.
- Guardant Health, Inc., a California-based company that aims to improve early cancer detection based on liquid biopsy. The product "Guardant Reveal" is a blood test used to control residual disease and recurrence after CRC. Guardant Reveal was launched in the U.S. market in the start of 2021. Alongside the other products Guardant360, Guardant360 CDx and GuardantOMNI, Guardant Reveal contributes to the development of the LUNAR screening program, which will be used in the future for cancer screening of asymptomatic patients.
- Thrive, a subsidiary of Exact Sciences Corp., is researching a holistic cancer screening based on a liquid biopsy. The test is currently under development and has not yet received marketing approval.

We might not be able to compete successfully in our market, particularly as we seek to enter the United States and commercialize ColoAlert. We expect that some of the screening tests currently being developed will be commercially available in the United States by the time we obtain FDA approval for ColoAlert, if at all. If our competitors introduce new diagnostic tests that compete with or surpass the accuracy, price or ease of use of our products, we may be unable to satisfy existing customers or attract new customers at the prices and levels that would allow us to generate attractive rates of return on our investment. Increased competition could result in price reductions and revenue shortfalls, loss of customers and loss of market share, which could harm our business, prospects, financial condition and operating results.

Customers

Our current customers are primarily laboratories in Germany, including some of the largest chains in Germany, that offer our ColoAlert test to physicians for use with their patients. For the year ended December 31, 2021, 2020 and 2019, we had revenue from four, three, and four customers that accounted for approximately 56%, 46% and 59% of revenue, respectively. We are actively seeking to expand our customer base in Europe, and intend to do so in the United States depending upon the progress of an application with the FDA for approval of ColoAlert.

Suppliers and Raw Material

We purchase most of our supplies "off-the-shelf" and at market rates and have normally second source suppliers available in case we experience supply issues with the primary supplier. We are planning to establish a safety stock from the primary suppliers to allow enough time for the necessary valuation to be performed if a secondary supplier is required.

Legal Proceedings

We are not involved in, or aware of, any legal or administrative proceedings contemplated or threatened by any governmental authority or any other party. As of the date of this annual report, no director, officer or affiliate is a party adverse to us in any legal proceeding or has an adverse interest to us in any legal proceeding.

C. Organizational structure

We have two wholly-owned subsidiaries, Mainz Biomed Germany GmbH (f/k/a PharmGenomics GmbH) and Mainz Biomed USA, Inc.

D. Property, plant and equipment

Our principal premises are located at Robert Koch Strasse 50, Mainz, Germany. In 2013, we entered into a fifteen year lease agreement for these premises with a monthly minimum rent of approximately €5,730 plus ancillary rental costs of approximately €1,500 per month. The leased premises is approximately 7,300 sq. ft. in size. Starting in January 2022, we entered into an additional seven-year lease agreement with a monthly minimum rent of approximately €2,308 plus ancillary costs of approximately €621. The newly leased premises is approximately 2,228 sq. ft. in size.

We use these facilities for administrative purposes, research and development, manufacturing of our products and analysis by our laboratories. We believe that these facilities will satisfy our manufacturing and research and development needs in the next 12 months.

Some members of our management work outside of these premises in office space that we do not rent.

We do not own any real property and do not lease any other properties.

ITEM 4A. UNRESOLVED STAAF COMMENTS

Not Applicable.

ITEM 5. OPERATING AND FINANCIAL REVIEW AND PROSPECTS

You should read the following discussion and analysis of our financial condition and results of operations together with our financial statements and the related notes to those statements included elsewhere in this Form 20-F filing. This discussion and analysis contains forward-looking statements based upon current beliefs, plans and expectations related to future events and our future financial performance that involve risks, uncertainties and assumptions, such as statements regarding our intentions, plans, objectives, expectations, forecasts and projections. Our actual results and the timing of selected events could differ materially from those anticipated in these forward-looking statements as a result of several factors, including those set forth under the section titled "Risk Factors" and elsewhere in this Form 20-F. You should carefully read the "Risk Factors" to gain an understanding of the important factors that could cause actual results to differ materially from our forward-looking statements. Please also see the section titled "Special Note Regarding Forward-Looking Statements."

Organization and Overview of Operations

We were incorporated in 2021 for the purpose of acquiring Mainz Biomed Germany GmbH (f/k/a PharmGenomics GmbH) ("Mainz Biomed Germany"). On August 3, 2021, we entered into a contribution agreement (the "Contribution Agreement") with Mainz Biomed Germany pursuant to which 100% of the shares of the Mainz Biomed Germany were acquired in exchange for 6,000,000 ordinary shares of the Company. Upon the closing of the Contribution Agreement on September 20, 2021, Mainz Biomed Germany became a wholly-owned subsidiary of the Company, with the former shareholders of Mainz Biomed Germany holding approximately 62% of the outstanding shares of Mainz, upon closing the Contribution Agreement.

Pursuant to the accounting guidance provided by IFRS 10 and IFRS 3.7 and B13, we have determined that for accounting purposes the merger of Mainz BioMed N.V. and Mainz Biomed Germany should be treated as a reverse acquisition by Mainz Biomed Germany, with Mainz Biomed Germany being the accounting acquirer, and Mainz BioMed N.V. as the acquired company. As such, the assets and liabilities of Mainz Biomed Germany have been presented at their historical carrying values. The information below includes financial data and discussion derived from the audited consolidated financial statements of Mainz Biomed N.V.

We develop and sell in-vitro diagnostic ("IVD") tests, primarily our flagship ColoAlert product in European markets and research use only tests for clinical diagnostics in the area of human genetics, focusing in the areas of personalized medicine. We additionally operate a clinical diagnostic laboratory. We develop and distribute our IVD kits to third-party laboratories and through our on-line store. We expect the majority of our revenues to come from the sale of our ColoAlert product. During 2020 and 2021, we also performed third-party testing to help the local health care system process Covid-19 test in our diagnostic laboratory. We expect this revenue stream to decrease significantly moving forward.

In addition, we conduct research and development to increase and diversify our product portfolio. Currently, we are managing two government funded research and development projects, which provide us non-refundable grant income that covers a percentage of the individual project-related costs.

On November 9, 2021, we completed our initial public offering whereby we sold 2,300,000 ordinary shares for gross proceeds of \$11,500,000. On January 28, 2022, we conducted a follow-on public offering in which we sold 1,725,000 ordinary shares for gross proceeds of \$25,875,000.

Results of Operations

Comparison of the Year Ended December 31, 2021 and 2020

The following table provides certain selected financial information for the periods presented:

| | Year Ended December 31, | | Change | % Change |
|--|------------------------------------|--------------|-----------------|-----------------|
| | 2021 | 2020 | | |
| Revenue | \$ 577,348 | \$ 493,565 | \$ 83,783 | 17% |
| Cost of revenue | \$ 399,726 | \$ 370,480 | \$ 29,246 | 8% |
| Gross profit | \$ 177,622 | \$ 123,085 | \$ 54,537 | 44% |
| Gross profit percentage | 31% | 25% | | |
| Research and Development | \$ 466,689 | \$ 311,851 | \$ 154,838 | 50% |
| Sales and Marketing | \$ 957,522 | \$ 110,380 | \$ 847,142 | 767% |
| General and Administrative | \$ 8,478,017 | \$ 374,569 | \$ 8,103,448 | 2,163% |
| Total operating expenses | \$ 9,902,228 | \$ 796,800 | \$ 9,105,428 | 1,143% |
| Loss from operations | \$ (9,724,606) | \$ (673,715) | \$ (9,050,891) | (1,343)% |
| Other income (expense) | \$ (1,965,492) | \$ 86,820 | \$ (2,052,312) | (2,364)% |
| Net loss | \$ (11,690,098) | \$ (586,985) | \$ (11,103,203) | (1,892)% |
| Total Comprehensive Loss | \$ (11,485,129) | \$ (811,551) | \$ (10,673,578) | (1,315)% |
| Basic and dilutive loss per common share | \$ (1.62) | \$ (0.10) | \$ (1.52) | (1,449)% |
| Weighted average number of common shares outstanding – basic and diluted | 7,210,889 | 5,607,243 | | |

Revenue

Revenue for the year ended December 31, 2021 was \$577,348 as compared to \$493,565 for the year ended December 31, 2020, an increase of \$83,783. This increase was primarily the result of a \$59,294 or 36% increase in revenue from our ColoAlert product. Additionally, our non-ColoAlert revenue increased by \$24,422, which included a \$56,973 increase in our third-party lab testing and support, reflecting our support of local COVID-19 lab testing, which we expect to decrease after 2021, offset by decreases in our research use only and other sales, as we focus our efforts on European sales of our flagship ColoAlert product.

Our revenue by product and service category is as follows:

| | Year Ended December 31, | |
|-------------------------------------|----------------------------|------------|
| | 2021 | 2020 |
| ColoAlert | \$ 226,438 | \$ 167,074 |
| Third party lab testing and support | 233,662 | 176,692 |
| Research use only product sales | 48,886 | 93,894 |
| Other revenue | 68,362 | 55,905 |
| Total Revenue | \$ 577,348 | \$ 493,565 |

Cost of Revenue

Cost of Revenue for the year ended December 31, 2021 was \$399,726 as compared to \$370,480 for the year ended December 31, 2020, an 8% increase. This increase was the result of increased minimum royalty payments due to ColoAlert AS and maintenance of lab equipment offset by decreases in selling, salaries, and test kit materials.

Gross profit

Gross profit increased to \$177,622 from \$123,085, for the year ended December 31, 2021, as compared to the year ended December 31, 2020. This increase was due to increased ColoAlert sales and testing volume during 2021, which has higher margin profile, mitigated by the larger royalty expense in 2021.

Research and Development Expenses

Research and development expenses for the year ended December 31, 2021, were \$466,689 compared to \$311,851 for the year ended December 31, 2020, an increase of \$154,838. This increase was driven by increased headcount in research and development to support our ColoAlert product and PancAlert and GenoStrip product candidates. Additionally, we increased our lab space during 2021 and our lab equipment.

Sales and Marketing Expenses

Sales and marketing expenses for the year ended December 31, 2021, were \$957,522 compared to \$110,380 for the year ended December 31, 2020, an increase of \$847,142. This increase was the result of increased headcount in our sales group and an increase in advertising expenses.

General and Administrative Expenses

General and administrative expenses for the year ended December 31, 2021 were \$8,478,017 compared to \$374,569 for the year ended December 31, 2020, an increase of \$8,103,448. This increase resulted from staffing increases, professional fees related to the merger between Mainz Biomed N.V and Mainz Biomed Germany GmbH, and employee stock compensation expense of \$6,430,158 related to the stock options that were issued at the time of our initial public offering in November 2021.

Other income (expense)

Other income (expense) for the year ended December 31, 2021 was \$(1,965,492) compared to \$86,820 for the year ended December 31, 2020. This increased net expense was primary related to the \$2,019,739 merger expense from the merger between Mainz Biomed N.V and Mainz Biomed Germany GmbH.

Comparison of the Year Ended December 31, 2020 and 2019

For a discussion of our results for the year ended December 31, 2020 compared to the year ended December 31, 2019, please see "Management's Discussion and Analysis of Financial Condition and Results of Operations – Results of Operations – Comparison of the Year Ended December 31, 2020 and 2019" contained in our registration statement on Form F-1 filed with the U.S. Securities and Exchange Commission on January 21, 2022 and incorporated herein by reference.

Liquidity and Capital Resources

Our principal liquidity requirements are for working capital and capital expenditures. Historically, we have funded our liquidity requirements primarily through cash on hand, cash flows from operations, and debt financing, including from officers and shareholders. In November 2021, we completed an initial public offering which raised \$10,432,833 of net proceeds. As of December 31, 2021, we had \$8,727,542 of cash and cash equivalents, with \$122,568 as of December 31, 2020.

The following table summarizes our cash flows from operating, investing and financing activities:

| | Year Ended December 31, | | Change |
|---|----------------------------|--------------|----------------|
| | 2021 | 2020 | |
| Cash used in operating activities | \$ (3,220,324) | \$ (468,737) | \$ (2,751,587) |
| Cash provided by (used in) investing activities | \$ 1,230,151 | \$ (9,685) | \$ 1,212,836 |
| Cash provided by financing activities | \$ 10,610,534 | \$ 396,681 | \$ 10,213,853 |

Cash Flow used in Operating Activities

For the year ended December 31, 2021, net cash flows used in operating activities were \$3,220,324 compared to \$468,737 used during the year ended December 31, 2020, respectively, primarily due to net losses and timing of settlement of assets and liabilities, including the costs of the merger of Mainz Biomed N.V and Mainz Biomed Germany GmbH and our initial public offering, both in 2021.

Cash Flows provided by and used in Investing Activities

During the year ended December 31, 2021, cash provided by investing activities was primarily the result of cash acquired (on hand) of Mainz Biomed N.V. at the closing of our merger. In 2020 we used \$9,685 in investing activities for the purchase of fixed assets.

Cash Flows provided by Financing Activities

During the year ended December 31, 2021 we had cash flow provided by financing activities of \$10,610,534 compared to cash flow provided by financing activities of \$396,681 in 2020, an increase of \$10,213,853. This increase was primarily the result of our initial public offering in November 2021, which raised net proceeds of \$10,432,833.

Critical Accounting Policies and Significant Judgments and Estimates

This discussion and analysis of our financial condition and results of operations is based on our financial statements, which have been prepared in accordance with International Financial Reporting Standards, or IFRS, as issued by the International Accounting Standards Board. The preparation of these financial statements requires us to make estimates and assumptions that affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements, as well as the reported expenses incurred during the reporting periods. Our estimates are based on our historical experience and on various other factors that we believe are reasonable under the circumstances, the results of which form the basis for making judgments about the carrying value of assets and liabilities that are not readily apparent from other sources. Actual results may differ from these estimates under different assumptions or conditions. While our significant accounting policies are described in more detail in the notes to our financial statements included elsewhere in this prospectus, we believe that the following accounting policies are critical to understanding our historical and future performance, as these policies relate to the more significant areas involving management's judgments and estimates.

We believe our most critical accounting policies and estimates relate to the following:

- Revenue Recognition
- Foreign Currency Translation
- Stock Option Compensation
- Lease Accounting
- Financial Instruments

Revenue Recognition

Our revenue is primarily derived through providing genetic diagnostic tests to customers. We recognize revenue in accordance with International Financial Reporting Standards ("IFRS") 15 "Revenue from Contracts with Customers".

In accordance with IFRS 15, revenue is recognized upon the satisfaction of performance obligations. Performance obligations are satisfied at the point at which control of the promised goods or services are transferred to customers, in an amount that reflects the consideration we expect to be entitled to receive for those goods and services.

We provide a genetic diagnostic testing service and testing kits which are not considered separately identifiable from each other as we use the testing kits to collect samples to deliver the diagnostic test results to the customer. Accordingly, we have one performance obligation which is fulfilled upon the delivery of the test results to the customer and revenue is recognized at that point in time.

We also receive income from government sponsored R&D grants. Income is recognized on these programs when funds are received and all performance obligations, as defined in the grant, are completed. This income is included in the Statements of Comprehensive Loss as Other Income.

Foreign Currency Translation

The functional currency is determined using the currency of the primary economic environment in which that entity operates. The functional currency, as determined by our management, is the European dollar (EUR).

Foreign currency transactions are translated into functional currency using the exchange rates prevailing at the date of the transaction. Foreign currency monetary items are translated at the period-end exchange rate. Non-monetary items measured at historical cost continue to be carried at the exchange rate at the date of the transaction. Non-monetary items measured at fair value are reported at the exchange rate at the date when fair values were determined.

Exchange differences arising on the translation of monetary items or on settlement of monetary items are recognized in the statement of comprehensive loss in the period in which they arise, except where deferred in equity as a qualifying cash flow or net investment hedge.

Exchange differences arising on the translation of non-monetary items are recognized in other comprehensive income to the extent that gains and losses arising on those non-monetary items are also recognized in other comprehensive income. Where the non-monetary gain or loss is recognized in profit or loss, the exchange component is also recognized in profit or loss.

Our presentation currency is the US dollar. For presentation purposes, all amounts are translated from the Euro functional currency to the US dollar presentation currency for each period using the exchange rate at the end of each reporting period for the statement of financial position. Revenues and expenses are translated on the basis of average exchange rates during the year.

Exchange gains and losses arising from translation to our presentation currency are recorded as exchange differences on translation to reporting currency, which is included in other comprehensive income (loss).

Stock Option Compensation

We have adopted our 2021 Omnibus Incentive Plan (the "Plan"). Under the Plan, we are authorized to issue equity incentives in the form of incentive stock options, non-statutory stock options, restricted shares, restricted share units, share appreciation rights, performance units or performance shares under separate award agreements. Under the Plan, the aggregate number of shares underlying awards that we could issue cannot exceed 2,300,000 ordinary shares.

On November 4, 2021, we awarded 1,474,650 stock options under the Plan, with a strike price of \$5.00, the per share price in our November 2021 initial public offering. Subsequent to November 4, 2021 and before December 31, 2021 an additional 30,000 options at strike prices between \$8.75 and \$10.56 were granted. Such stock options were granted to all of our current employees, directors, advisors and senior management team. Such stock options for our non-senior management team, independent directors and advisors will begin vesting on November 4, 2022 and stop vesting on November 4, 2025 at the latest. Such stock options for the four members of our senior management team will begin vesting in portions equal to 25% of such options granted if, prior to November 4, 2025, the four-year anniversary of our initial public offering, for ten consecutive trading days (with at least 100,000 shares traded per trading day) the volume-weighted average price of the ordinary shares on the principal market is at least:

- \$7.50;
- \$10.00;
- \$12.50, provided that such options cannot vest until the twelve-month anniversary of this offering at the earliest; and
- \$15.00, provided that such options cannot vest until the twelve-month anniversary of this offering at the earliest.

We value our stock options as follows: (a) for those options that have time-based vesting, we use the Black Scholes method to value the stock options at the time of award and record the compensation expense in our Statement of Operations over the vesting period, and (b) for options issued with milestone based vesting criteria, we use a Monte Carlo simulation to value the options at the time of issuance and each subsequent reporting date until fully vested or expired, with any change in compensation expense measured by such method to be recorded in our Statement of Operations.

The Black Scholes option pricing model considers, among other factors, the expected term of the award and the expected volatility of our stock price. Due to the lack of an adequate history of a public market for the trading of our ordinary shares, we have based our estimate of expected volatility on the historical volatility of a group of similar companies that are publicly traded with historical share price information sufficient to meet the expected life of the stock-based awards. The Monte Carlo simulation approach is a class of computational algorithms that rely on repeated random sampling to compute their results. This approach allows the calculation of the value of such stock options based on a large number of possible stock price path scenarios. Expense for the market-condition stock options will be recognized over the derived service period as determined through the Monte Carlo simulation model.

Lease Accounting

We assess at contract inception whether a contract is, or contains, a lease. That is, if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration. We apply a single recognition and measurement approach for all leases, except for short-term leases and leases of low-value assets. We recognize lease liabilities to make lease payments and right-of-use assets representing the right to use the underlying assets.

At the commencement date of the lease, we recognize lease liabilities measured at the present value of lease payments to be made over the lease term. Lease payments include fixed payments (including in-substance fixed payments) less any lease incentives receivable, variable lease payments that depend on an index or a rate, and amounts expected to be paid under residual value guarantees. Lease payments also include the exercise price of a purchase option reasonably certain to be exercised by us and payments of penalties for terminating the lease, if the lease term reflects us exercising the option to terminate. Variable lease payments that do not depend on an index or a rate are recognized as expenses in the period in which the event or condition that triggers the payment occurs. In calculating the present value of lease payments, we use our incremental borrowing rate at the lease commencement date because the interest rate implicit in the lease is not readily determinable. After the commencement date, the amount of lease liabilities is increased to reflect the accretion of interest and reduced for the lease payments made. In addition, the carrying amount of lease liabilities is remeasured if there is a modification, a change in the lease term, a change in the lease payments (e.g., changes to future payments resulting from a change in an index or rate used to determine such lease payments) or a change in the assessment of an option to purchase the underlying asset.

We recognize right-of-use assets at the commencement date of the lease (i.e., the date the underlying asset is available for use). Right-of-use assets are measured at cost, less any accumulated depreciation and impairment losses, and adjusted for any remeasurement of lease liabilities. The cost of right-of-use assets includes the amount of lease liabilities recognized, initial direct costs incurred, and lease payments made at or before the commencement date less any lease incentives received. Right-of-use assets are depreciated on a straight-line basis over the shorter of the lease term and the estimated useful lives of the assets.

Financial Instruments

(a) Classification

The Company classifies its financial instruments in the following categories: at fair value through profit and loss ("FVTPL"), at fair value through other comprehensive income (loss) ("FVTOCI") or at amortized cost. The Company determines the classification of financial assets at initial recognition. The classification of debt instruments is driven by the Company's business model for managing the financial assets and their contractual cash flow characteristics. Equity instruments that are held for trading are classified as FVTPL. For other equity instruments, on the day of acquisition the Company can make an irrevocable election (on an instrument-by-instrument basis) to designate them as at FVTOCI. Financial liabilities are measured at amortized cost, unless they are required to be measured at FVTPL (such as instruments held for trading or derivatives) or if the Company has opted to measure them at FVTPL.

(b) Measurement

Financial assets and liabilities at amortized cost

Financial assets and liabilities at amortized cost are initially recognized at fair value plus or minus transaction costs, respectively, and subsequently carried at amortized cost less any impairment. The Company's financial assets measured at amortized cost are comprised of its cash and trade and other receivables, net. The Company's financial liabilities measured at amortized cost are comprised of its accounts payable and accrued liabilities, loans payable, loans payable – related party, convertible debt, convertible debt – related parties, silent partnerships, silent partnerships – related party and lease liabilities.

Financial assets and liabilities at FVTPL

Financial assets and liabilities carried at FVTPL are initially recorded at fair value and transaction costs are expensed in the statements of loss and comprehensive loss. Realized and unrealized gains and losses arising from changes in the fair value of the financial assets and liabilities held at FVTPL are included in the statements of loss and comprehensive loss in the period in which they arise.

Debt instruments at FVTOCI

These assets are initially measured at fair value. Interest income calculated using the effective interest method, foreign exchange gains and losses and impairment are recognized in profit or loss. Other net gains and losses associated with changes in fair value are recognized in OCI. On derecognition, gains and losses accumulated in OCI are reclassified to profit or loss. The Company does not hold any debt instruments at FVTOCI.

Equity instruments at FVTOCI

These assets are initially measured at fair value. Dividends are recognized as income in profit or loss unless the dividend clearly represents a recovery of part of the cost of the investment. Other net gains and losses associated with changes in fair value are recognized in OCI and are never reclassified to profit or loss. The Company does not hold any equity instruments at FVTOCI.

Disclosure of Contractual Arrangements

On December 31, 2021, the Company was committed to minimum lease payments as follows:

| Contractual Obligation | Less than One Year | 1 – 3 Years | 3 – 5 Years | Over 5 Years |
|-------------------------------|-------------------------------|--------------------|--------------------|---------------------|
| Office Equipment | \$ 6,553 | \$ 13,106 | \$ 7,049 | \$ 812 |
| Laboratory Equipment | \$ 10,896 | \$ 19,151 | \$ 8,264 | \$ - |
| Office Rent | \$ 78,214 | \$ 156,428 | \$ 156,428 | \$ 143,392 |
| TOTAL | \$ 95,663 | \$ 188,685 | \$ 171,741 | \$ 144,204 |

The amounts above are undiscounted and include the total amounts due, including the interest component.

ITEM 6. DIRECTORS, SENIOR MANAGEMENT AND EMPLOYEES

A. Directors and Senior Management

The following table sets forth the names and ages of all of our directors and executive officers.

| Name, Region/State and Country of Residence | Age | Position | Director/Officer Since |
|---|------------|------------------------------------|-------------------------------|
| <i>Guido Baechler</i> <i>California, USA</i> | 56 | Chief Executive Officer, Director | July 2021 |
| <i>William Caragol</i> <i>Florida, USA</i> | 55 | Chief Financial Officer | July 2021 |
| <i>Dr. Moritz Eidens</i> <i>Ingelheim, Germany</i> | 39 | Chief Scientific Officer, Director | June 2008 |
| <i>Dr. Alberto Libanori</i> <i>California, USA</i> | 32 | Director | November 2021 |
| <i>Hans Hekland</i> <i>Bergen, Norway</i> | 63 | Director | November 2021 |
| <i>Philipp Freese</i> <i>Grevenbroich, Germany</i> | 40 | Chief Operating Officer | February 2015 |
| <i>Nicole Holden</i> <i>Virginia, USA</i> | 49 | Director | November 2021 |

Business Experience

The following summarizes the occupation and business experience during the past five years or more for our directors, and executive officers as of the date of this annual report:

Guido Baechler, our Chief Executive Officer and a director, has global experience in private and public companies specializing in the life science and medical diagnostics fields. Mr. Baechler founded Berkeley Life Science Advisors, a diagnostic and life science start-up consulting business, in 2019. He was the Chief Executive Officer of SummerBio, a leading COVID testing CLIA laboratory in California, from July 2020 to February 2021 and Chief Executive Officer and Chief Operating Officer of Singulex, Inc. from November 2008 to June 2019.

Mr. Baechler previously held several leadership positions at Roche Molecular Systems, including serving as a member of its executive team. He held various leadership positions at Roche Diagnostics within Research, Development, and Marketing in Switzerland and California during his almost twenty years with the company.

Since 2020, Mr. Baechler has been a board member of Chip Diagnostics and the chairman of the board of Telo Genomics, a publicly traded Canadian biotech company and an advisor to other life science companies.

Mr. Baechler holds a Bachelor's Degree in Electrical Engineering and completed a series of executive finance and management classes at the London School of Business and at the Haas Business School at the University of California, Berkeley.

William Caragol, our Chief Financial Officer, has over thirty years of experience working with growth stage technology companies. In 2018, he founded and is the Managing

Director of Quidem LLC, a corporate strategic and financial advisory firm. Since 2015, Mr. Caragol has been Chairman of the Board of Thermomedics, Inc., a privately held medical diagnostic equipment company. Since February 2021, Mr. Caragol is also on the Board of Directors and is Chairman of the Audit Committee of Greenbox POS (NASDAQ: GBOX) a financial technology company leveraging proprietary blockchain security to build customized payment solutions, and since July 2021 is on the Board of Directors of Workspart Ltd. (Nasdaq: WKSP), an emerging company in the electric vehicle and alternative energy sector. From 2012 to 2018, Mr. Caragol was Chairman and CEO of PositiveID, a holding company that was publicly traded that had a portfolio of products in the fields of bio detection systems and molecular diagnostics. Mr. Caragol earned a B.S. in business administration and accounting from Washington & Lee University and is a member of the American Institute of Certified Public Accountants.

Dr. Moritz Eidens, our Chief Scientific Officer and a director, received his Masters Degree at the international oriented University of Applied Sciences in Rheinbach near Bonn, Germany in 2006 with a focal point on human genetics and genetic diseases. In 2019, Mr. Eidens graduated from the University-Medicine Hospital of the Johannes Gutenberg University in Mainz, Germany, and was awarded with a Ph.D. from the medical faculty.

In 2008, Mr. Eidens founded the Company and has served since then as an executive of the organization. Mr. Eidens has been involved in the Company's development and distribution of several innovative products, managed and coordinated several national and international grant projects with large industrial or academic partners process development, technology transfer, supply chain management as well as internal and external audits. In September 2021, M. Eidens was appointed as Chief Scientific Officer at Mainz Biomed N.V. He also serves as Managing Director of Mainz Biomed Germany GmbH, the Company's wholly-owned subsidiary.

Philipp Freese, our Chief Operating Officer, received his Diploma in Business Administration with focus on marketing, business law and production technology at Excellence University RWTH in Aachen/Germany in 2008. Until 2015 he worked in project, product, process, quality and key account management as well as business development for the Cologne Institute for Economic Research. In 2014, he successfully finished his postgraduate studies in IT-related business administration.

Mr. Freese served as the Interim Head of Marketing at the Company from 2013 to 2015, and in 2015 he became its Commercial Managing Director responsible for marketing, sales, operations, legal affairs and Finance/IR. He was the major driver for ColoAlert's product-market-fit, brand, processes and marketing strategies, established relationships with reference laboratories and assisted in our capital raises.

Hans Hekland, a director, graduated Siviløkonom (MBA) from Norwegian School of Economics and Business Administration in Bergen, Norway in 1983. He has had several executive positions in international Banking and Industry until 2001 when he established Sarsia Innovation as the tech-transfer-office for University of Bergen. He has during his career developed Sarsia into a venture fund management company, established three venture funds. He holds board positions in several healthcare and biotech companies, and since 2021, he has been on the board of Lifecare AS (Euronext Growth: LIFE), a company developing a continuous glucose measurement implant.

Hans Hekland is a certified business coach within the EIT Health program.

In 2013 he established ColoAlert AS together with Dr. Dagfinn Øgreid and Dr Roger Løvlie and engaged the Company to develop the ColoAlert test, which led to the current license agreement.

Dr. Alberto Libanori, serves as Managing Director to Boustead Securities, LLC. Alberto has 10 years' work experience at the science-business interface in venture capital, BD&L, M&A and IPOs, focusing in life-sciences, med-tech and cosmeceuticals, having worked with L'Oréal Research and Innovation, M-Ventures, and Novartis Venture Funds (NVF). Previously Alberto founded and helped with the strategic exits of a number of technology start-ups including Atelier Mnestist SAS and Cutech (acquired by Symrise). A prolific scientist, Alberto has published more than 20 peer-reviewed articles in journals including Nature Electronics, Advanced Materials, and ACS Nano, and is the holder of two patents. Alberto Libanori holds a PhD and MS in Bioengineering from UCLA, with focus on wearable and implantable bioelectronics and biomaterials for regenerative medicine, an MPhil in Bioscience Enterprise from Cambridge University, and a Bachelor's in Biomolecular Sciences (Hons) from St Andrews University. Raised internationally, Alberto is fluent in English, French, Spanish, Mandarin Chinese and Portuguese, alongside his native Italian.

Nicole Holden, CPA, a director, has more than 20 years of accounting advisory, assurance, and regulatory experience for large publicly traded and privately held clients. Currently, Ms. Holden is the Audit Committee Chair for Nerds On Site, Inc. (CSE: NERD), a position she has held since 2018, shortly prior to its Initial Public Offering. Prior to joining our Board, Ms. Holden had a broad professional career. She is currently the Vice President, Client Advisory in the Advisory Service practice for The Alliance Group. Ms. Holden was also an Assistant Controller for Enviva LP (NYSE: EVA). She was a Director in the Professional practice for the Center for Audit Quality (The CAQ). She also served as a Senior Manager in the Office of Research and Analysis and Assistant Chief Auditor in the Office of the Chief Auditor for the Public Company Accounting Oversight Board (PCAOB). She was a Director in the Transaction Services practice at KPMG LLP. She also served as a Senior Manager in the Assurance practice at Stonefield Josephson, Inc. She was a Staff Accountant in the Corporate Finance division of the U.S. Securities and Exchange Commission (SEC). She also worked on the Internal Audit team for Computer Sciences Corp (NYSE: DXC). She began her career first as an Assurance associate for Arthur Andersen, then as an Assurance associate for Ernst & Young, LLP. Ms. Holden is a licensed Certified Public Accountant in Washington, DC (Active). She received a Master of Accounting from the American University, Kogod School of Business.

Family Relationships

There are no family relationships among any of our directors and executive officers.

Arrangements

We are not aware of any arrangement among shareholders regarding the nomination or approval of directors or senior management.

Term of Office

Each director is to serve until his successor is elected and qualified or until his death, resignation or removal. Our Board of Directors appoints our officers and each officer is to serve until his successor is appointed and qualified or until his or her death, resignation or removal.

Involvement in Certain Legal Proceedings

During the past ten years, none of our directors or executive officers have been the subject of the following events:

1. a petition under the Federal bankruptcy laws or any state insolvency law was filed by or against, or a receiver, fiscal agent or similar officer was appointed by a court for the business or property of such person, or any partnership in which he was a general partner at or within two years before the time of such filing, or any corporation or business association of which he was an executive officer at or within two years before the time of such filing;

2. convicted in a criminal proceeding or is a named subject of a pending criminal proceeding (excluding traffic violations and other minor offenses);
3. the subject of any order, judgment, or decree, not subsequently reversed, suspended or vacated, of any court of competent jurisdiction, permanently or temporarily enjoining him from, or otherwise limiting, the following activities;
 - i) acting as a futures commission merchant, introducing broker, commodity trading advisor, commodity pool operator, floor broker, leverage transaction merchant, any other person regulated by the Commodity Futures Trading Commission, or an associated person of any of the foregoing, or as an investment adviser, underwriter, broker or dealer in securities, or as an affiliated person, director or employee of any investment company, bank, savings and loan association or insurance company, or engaging in or continuing any conduct or practice in connection with such activity;
 - ii) engaging in any type of business practice; or
 - iii) engaging in any activity in connection with the purchase or sale of any security or commodity or in connection with any violation of Federal or State securities laws or Federal commodities laws;
4. the subject of any order, judgment or decree, not subsequently reversed, suspended or vacated, of any Federal or State authority barring, suspending or otherwise limiting for more than 60 days the right of such person to engage in any activity described in paragraph 3.i in the preceding paragraph or to be associated with persons engaged in any such activity;
5. was found by a court of competent jurisdiction in a civil action or by the SEC to have violated any Federal or State securities law, and the judgment in such civil action or finding by the SEC has not been subsequently reversed, suspended, or vacated;
6. was found by a court of competent jurisdiction in a civil action or by the Commodity Futures Trading Commission to have violated any Federal commodities law, and the judgment in such civil action or finding by the Commodity Futures Trading Commission has not been subsequently reversed, suspended or vacated;

7. was the subject of, or a party to, any Federal or State judicial or administrative order, judgment, decree, or finding, not subsequently reversed, suspended or vacated, relating to an alleged violation of:
 - i) any Federal or State securities or commodities law or regulation; or
 - ii) any law or regulation respecting financial institutions or insurance companies including, but not limited to, a temporary or permanent injunction, order of disgorgement or restitution, civil money penalty or temporary or permanent cease-and-desist order, or removal or prohibition order, or
 - iii) any law or regulation prohibiting mail or wire fraud or fraud in connection with any business entity; or
8. was the subject of, or a party to, any sanction or order, not subsequently reversed, suspended or vacated, of any self-regulatory organization (as defined in Section 3(a)(26) of the Exchange Act (15 U.S.C. 78c(a)(26))), any registered entity (as defined in Section 1(a)(29) of the Commodity Exchange Act (7 U.S.C. 1(a)(29))), or any equivalent exchange, association, entity or organization that has disciplinary authority over its members or persons associated with a member.

Director Independence

We have three directors who qualify as "independent" according to the rules of the Nasdaq Stock Market, LLC. Our Board has determined that the following director are "independent" as such directors do not have a direct or indirect material relationship with our company: Alberto Libanori, Nicole Holden and Hans Hekland.

A material relationship is a relationship which could, in the view of our Board of Directors, be reasonably expected to interfere with the exercise of a director's independent judgment.

Code of Ethics and Business Conduct

We have adopted a Code of Ethics and Business Conduct that applies to our directors, officers and other employees.

B. Compensation

Compensation Discussion and Analysis

This section sets out the objectives of our company's executive compensation arrangements, our company's executive compensation philosophy and the application of this philosophy to our company's executive compensation arrangements. It also provides an analysis of the compensation design, and the decisions that the Board intends to make with respect to our executive officers. When determining the compensation arrangements for our executive officers, our Compensation Committee considers the objectives of: (i) retaining an executive critical to our success and the enhancement of shareholder value; (ii) providing fair and competitive compensation; (iii) balancing the interests of management and our shareholders; and (iv) rewarding performance, both on an individual basis and with respect to the business in general.

Benchmarking

Our Compensation Committee handles matters relating to compensation, including benchmarking. The Compensation Committee considers a variety of factors when designing and establishing, reviewing and making recommendations for executive compensation arrangements for all our executive officers. The Compensation Committee does not intend to position executive pay to reflect a single percentile within the industry for each executive. Rather, in determining the compensation level for each executive, the Compensation Committee will look at factors such as the relative complexity of the executive's role within the organization, the executive's performance and potential for future advancement and pay equity considerations.

Elements of Compensation

The compensation paid to executive officers in any year consists of two primary components:

- (a) base salary; and
- (b) long-term incentives in the form of stock options.

The key features of these two primary components of compensation are discussed below:

Base Salary

Base salary recognizes the value of an individual to our company based on his or her role, skill, performance, contributions, leadership and potential. It is critical in attracting and retaining executive talent in the markets in which we compete for talent. Base salaries for the Named Executive Officers are intended to be reviewed annually. Any change in base salary of a Named Executive Officer is generally determined by an assessment of such executive's performance, a consideration of competitive compensation levels in companies similar to our company and a review of our performance as a whole and the role such executive officer played in such corporate performance.

Stock Option Awards

We provide long-term incentives to executive officers in the form of stock options as part of our overall executive compensation strategy. Our Compensation Committee believes that stock option grants serve our executive compensation philosophy in several ways: firstly, it helps attract, retain, and motivate talent; secondly, it aligns the interests of the executive officers with those of the shareholders by linking a specific portion of the officer's total pay opportunity to the share price; and finally, it provides long-term accountability for executive officers.

Risks Associated with Compensation Policies and Practices

The oversight and administration of our executive compensation program requires the Compensation Committee to consider risks associated with our compensation policies and practices. Potential risks associated with compensation policies and compensation awards are considered at annual reviews and also whenever it is deemed necessary by the Compensation Committee.

Our executive compensation policies and practices are intended to align management incentives with the long-term interests of the Corporation and its shareholders. In each case, the Corporation seeks an appropriate balance of risk and reward. Practices that are designed to avoid inappropriate or excessive risks include (i) financial controls that provide limits and authorities in areas such as capital and operating expenditures to mitigate risk taking that could affect compensation, (ii) balancing base salary and variable compensation elements and (iii) spreading compensation across short and long-term programs.

Compensation Governance

The Compensation Committee intends to conduct a yearly review of directors' compensation having regard to various reports on current trends in directors' compensation and compensation data for directors of reporting issuers of comparative our size. Director compensation is currently limited to the grant of stock options pursuant to the Stock Option Plan. It is anticipated that the Chief Executive Officer will review the compensation of our executive officers for the prior year and in comparison to industry standards via information disclosed publicly and obtained through copies of surveys. The Board expects that the Chief Executive Officer will make recommendations on compensation to the Compensation Committee. The Compensation Committee will review and make suggestions with respect to compensation proposals, and then make a recommendation to the Board.

The Compensation Committee will be comprised of independent directors.

The Compensation Committee's responsibility is to formulate and make recommendations to our directors in respect of compensation issues relating to our directors and executive officers. Its responsibilities are more fully described under the section of this annual report entitled "Item 6.B Compensation — Compensation Governance".

Summary Compensation Table

We set out below certain disclosure on compensation paid to our executives on an aggregate basis for the year ended December 31, 2021, as disclosure of compensation on an individual basis is not required in our home country and is not otherwise publicly disclosed by us.

| (U.S. dollars in thousands) | All executive officers |
|--------------------------------|------------------------|
| Base compensation | \$ 647,491 |
| Bonuses | — |
| Additional benefit payments | 25,973 |
| Total cash compensation | \$ 673,464 |

Executive Compensation Agreements

Guido Baechler, Chief Executive Officer

On July 1, 2021, we entered into a management services agreement with Guido Baechler (as amended, the "Baechler Agreement"). Pursuant to the Baechler Agreement: (a) Mr. Baechler is appointed as our Chief Executive Officer and will undertake and perform the duties and responsibilities normally and reasonably associated with such office; (b) we paid Mr. Baechler annual base remuneration of \$240,000 that increased to \$350,000 upon the filing of the Form F-1 for our initial public offering, and to \$450,000 in the year after the initial public offering provided we make satisfactory progress in Board-approved goals (the "Base Remuneration"); (c) we shall reimburse Mr. Baechler for one U.S. health plan and one U.S. dental plan (if not included in the health plan) amounting up to \$3,500 per month; (d) we shall provide to Mr. Baechler any benefits plan, if and when we have adopted such benefits; (e) our Board of Directors shall, in good faith, consider the payment of an annual bonus equal to 50% of that year's Base Remuneration based upon our performance and upon the achievement of mutually agreed-upon milestones (the "Annual Bonus"); and (e) Mr. Baechler will be entitled to twenty days paid annual vacation per calendar year as well as the reimbursement of reasonable and necessary business expenses. Furthermore, our Board of Directors will grant Mr. Baechler 467,850 stock options exercisable into ordinary shares subject to a Stock Option Plan that the Board of Directors and the shareholders of the Company will approve. Such options shall vest in quarterly amounts on each of those dates when for the ten prior trading days the volume-weighted average price of the ordinary shares on the principal market is at least \$7.50, \$10.00, \$12.50 and \$15.00, provided that on each of those ten prior trading days at least 100,000 shares traded per trading day.

We or Mr. Baechler, under the Baechler Agreement, may terminate the engagement at any time for any reason by providing not less than ten calendar days' notice in writing, provided that (a) Company shall have the option to provide a lump sum payment equal to ten (10) days' Base Remuneration in lieu of such notice if terminating without cause; and (b) the Company may waive all or any part of the notice period for no consideration by giving written notice to Mr. Baechler if terminating with cause.

In the event of the Company's termination of the Baechler Agreement for cause or if Mr. Baechler's terminates the Baechler Agreement without good reason, Mr. Baechler is

entitled to (i) any accrued but unpaid Base Remuneration and payment for any accrued but unused vacation; (ii) reimbursement for unreimbursed business expenses properly incurred by Mr. Baechler; and (iii) such benefits (including equity compensation), if any, to which Mr. Baechler may be entitled under the Company's benefit plans as of termination; provided that, in no event shall Mr. Baechler be entitled to any payments in the nature of severance or termination payments except as specifically provided in the Baechler Agreement (collectively the "Accrued Amounts").

If we elect to terminate the Baechler Agreement without good cause or Mr. Baechler resigns with good reason in compliance with the relevant terms and conditions of the Baechler Agreement, we shall be obligated to provide a severance package to Mr. Baechler that includes: (i) the Accrued Amounts (ii) equal installment payments payable under the Company's normal payroll practices, but no less frequently than monthly, which are in the aggregate equal to the Mr. Baechler's Base Remuneration for the year in which termination occurs; (iii) an amount equal to the Annual Bonus for the year in which the termination takes place; (iv) Vesting of an additional 12 months (removing any cliff) under all time-based vesting schedules for equity-based incentives held by Mr. Baechler; and (v) Reimbursement for up to \$3,500 of the monthly U.S. health insurance premium paid by Mr. Baechler for himself and his dependent until the earliest date set forth by the Baechler Agreement.

The Baechler Agreement will terminate upon the death of Mr. Baechler. The Company may terminate Mr. Baechler upon disability as defined by the Baechler Agreement. If Mr. Baechler is terminated on account of death or disability, we will provide Mr. Baechler, his estate, or, if applicable, Mr. Baechler's beneficiaries with the Accrued Amounts.

William Caragol, Chief Financial Officer

On April 29, 2022, effective May 1, 2022, we entered into an Employment Contract with Mr. Caragol (the "Caragol Contract"). Pursuant to the Caragol Contract: (a) Mr. Caragol has an annual salary of \$350,000; (b) Mr. Caragol is eligible to receive an annual bonus of up to 50% of his salary as determined by the Compensation Committee of the Board of Directors; (c) Mr. Caragol is to have his healthcare expensed paid, and a monthly office allowance, not to exceed \$1,500 per month; and (d) Mr. Caragol will be entitled to receive 80,000 options to purchase our ordinary shares subject to a the 2021 Omnibus Incentive Plan.

If we elect to terminate the Caragol Contract without good cause or Mr. Caragol resigns with good reason in compliance with the relevant terms and conditions of the Caragol Agreement, we shall be obligated to provide a severance package to Mr. Caragol that includes: (i) any amounts due to him under the Caragol Agreement that have not yet been paid, (ii) the amounts due to Mr. Caragol for a year subsequent to the date when the termination occurs; (iii) an amount equal to Mr. Caragol's target annual bonus for the year in which the termination takes place, with all criterion for such annual bonus deemed to have been achieved; and (iv) the vesting of an additional twelve months under all time-based vesting schedules for equity-based incentives held by Mr. Caragol.

Prior to the Employment agreement, effective on July 16, 2021, we entered into a consulting agreement with William Caragol (as amended, the "Caragol Agreement"). Pursuant to the Caragol Agreement: (a) Mr. Caragol was paid a monthly salary of \$15,000; and (b) Mr. Caragol received 155,950 options to purchase our ordinary shares subject to our 2021 Omnibus Incentive Plan. Such options shall vest in quarterly amounts on each of those dates when for the ten prior trading days the volume-weighted average price of the ordinary shares on the principal market is at least \$7.50, \$10.00, \$12.50 and \$15.00, provided that on each of those ten prior trading days at least 100,000 shares traded per trading day.

Dr. Moritz Eidens, Chief Scientific Officer

On September 20, 2021, we entered into a Management Services Agreement with Dr. Moritz Eidens with a term of three years (as amended, the "Eidens Agreement"). The Eidens Agreement is subject to automatic renewal on a three-year term basis unless either party provides written notice not to renew the Eidens Agreement with six months' notice before the end of the current or renewal term.

Pursuant to the terms and provisions of the Eidens Agreement: Dr. Eidens shall remain an executive of Mainz Biomed Germany GmbH and was appointed as a Director of Mainz Biomed N.V.

As a Director, Dr. Eidens is expected to undertake and perform the duties and responsibilities normally and reasonably associated with such office. For his services, Dr. Eidens will (a) receive a fixed gross annual salary of €164,000, payable monthly; (b) Dr. Eidens will be entitled to receive 233,925 options to purchase our ordinary shares subject to a Stock Option Plan that the Board of Directors and the shareholders of the Company will approve; and (c) be granted, up to the amount of the statutory income threshold applicable at the time, an amount equal to the employer's share of the contributions to his private health and nursing care insurance (collectively the "Eidens Remuneration"). The options in the Eidens Remuneration shall vest in quarterly amounts on each of those dates when for the ten prior trading days the volume-weighted average price of the ordinary shares on the principal market is at least \$7.50, \$10.00, \$12.50 and \$15.00, provided that on each of those ten prior trading days at least 100,000 shares traded per trading day.

Furthermore, we will provide Dr. Eidens with (a) paid annual vacation time of 30 working days; (b) a company car for business and private use upon request; (c) a monthly budget of €400 a month alongside a one-time €2,000 budget for work equipment; (d) an annual budget of €5,000 for health care not covered by insurance; (e) an annual training budget; and (f) a company credit card.

If we terminate the Eidens Agreement, Dr. Eidens is entitled upon request to be released from his duties until the end of the relationship. He will also receive a severance payment equal to three months of Remuneration for each year of service under the Eidens Agreement.

If Dr. Eidens is unable to work due to reasons beyond his control, he is entitled to the Remuneration minus any benefits granted by the statutory health insurance fund institutions or a private health insurance fund for the lesser of six months or the end of the current three-year term. In addition, in the event of Dr. Eidens' death, his spouse and dependents will be entitled to receive Remuneration for the month of death and the lesser of twelve months or the end of the current three-year term after the month of death.

In the event of a change of control, Dr. Eidens may resign and terminate the Eidens Agreement with written notice until the last day of the sixth month after the change of control has occurred.

Philipp Freese, Chief Operating Officer

On September 20, 2021, we entered into a Management Services Agreement with Mr. Phillip Freese with a three-year term (as amended, the "Freese Agreement"). The Freese Agreement is subject to automatic renewal on a three-year term basis unless either party provides written notice not to renew the Freese Agreement with six months' notice before the end of the current or renewal term.

Pursuant to the terms and provisions of the Freese Agreement: Mr. Freese shall remain an executive of Mainz Biomed Germany GmbH and serve as one of our Directors. Mr. Freese was appointed as our Chief Operations Officer.

As a Director, Mr. Freese is expected to undertake and perform the duties and responsibilities normally and reasonably associated with such office. For his services, Mr. Freese will (a) receive a fixed gross annual salary of €164,000, payable monthly; (b) Mr. Freese will be entitled to receive 233,925 options to purchase our ordinary shares subject to a Stock Option Plan that the Board of Directors and the shareholders of the Company will approve (collectively the "Freese Remuneration"). Such options shall vest in quarterly amounts on each of those dates when for the ten prior trading days the volume-weighted average price of the ordinary shares on the principal market is at least \$7.50, \$10.00, \$12.50 and \$15.00, provided that on each of those ten prior trading days at least 100,000 shares traded per trading day.

Furthermore, we will provide Mr. Freese with (a) paid annual vacation time of 30 working days; (b) a company car for business and private use upon request; (c) a monthly budget of €400 a month alongside a one-time €2,000 budget for work equipment; (d) an annual budget of €5,000 for health care not covered by insurance; (e) an annual training budget; and (f) a company credit card.

If we terminate the Freese Agreement, Mr. Freese is entitled upon request to be released from his duties until the end of the relationship. He will also receive a severance payment equal to three months of the Freese Remuneration for each year of service under the Freese Agreement.

If Mr. Freese is unable to work due to reasons beyond his control, he is entitled to the Freese Remuneration minus any benefits granted by the statutory health insurance fund institutions or a private health insurance fund for the lesser of six months or the end of the current three-year term. In addition, in the event of Mr. Freese's death his spouse and dependents will be entitled to receive Freese Remuneration for the month of death and the lesser of twelve months or the end of the current three-year term after the month of death.

In the event of a change of control, Mr. Freese may resign and terminate the Freese Agreement with written notice until the last day of the sixth month after the change of control has occurred.

Stock Option Plans and Stock Options

We have adopted our 2021 Omnibus Incentive Plan (the ("Plan")). Under the Plan, we are authorized to issue equity incentives in the form of incentive stock options, non-statutory stock options, restricted shares, restricted share units, share appreciation rights, performance units or performance shares under separate award agreements. Under the Plan, the aggregate number of shares underlying awards that we could issue cannot exceed, 2,300,000 ordinary shares.

At the time of our IPO, we awarded 1,484,650 stock options under the Plan, with a strike price of \$5.00, the per share price in our November 2021 initial public offering. Subsequent to November 4, 2021 and before December 31, 2021 an additional 30,000 options at strike prices between \$8.75 and \$10.56 were granted. Such stock options were granted to all of our current employees, directors, advisors and senior management team. Such stock options for our non-senior management team, independent directors and advisors will begin vesting starting November 4, 2022 and ending on November 4, 2025 at the latest. Such stock options for the four members of our senior management team will begin vesting in portions equal to 25% of such options granted if, prior to November 4, 2025, the four-year anniversary of our initial public offering, for ten consecutive trading days (with at least 100,000 shares traded per trading day) the volume-weighted average price of the ordinary shares on the principal market is at least:

- \$7.50;
- \$10.00;
- \$12.50, provided that such options cannot vest until November 4, 2022, at the earliest; and
- \$15.00, provided that such options cannot vest until November 4, 2022, at the earliest.

Of the 1,484,650 stock options granted prior to our initial offering, we granted 1,166,650 to our directors and executive officers as follows (i) 467,850 to Guido Baechler, (ii) 233,925 to Dr. Moritz Eidens, (iii) 233,925 to Philipp Freese, (iv) 155,950 to William Caragol, (v) 25,000 to Hans Hekland, (vi) 25,000 to Alberto Libanori and (vii) 25,000 to Nicole Holden.

Director Compensation for Fiscal 2021

We did not pay our directors for their services as directors in our fiscal 2020, although we did compensate some of our directors in that fiscal year for services that they provided as officers. In the fourth quarter of 2021, we paid each of our independent directors a quarterly fee of \$10,500.

Pension Benefits

We do not have any defined benefit pension plans or any other plans requiring us to make retirement payments or pay comparable benefits.

Termination of Employment and Change of Control Benefits

Details with respect to termination of employment and change of control benefits for our directors and executive officers is reported above under the section titled "*Executive Compensation Agreements*."

C. Board Practices

Board of Directors

We have five directors, three of whom satisfy the "independence" requirements of Rule 5605(a)(2) of the Listing Rules of the Nasdaq Stock Market and meet the independence standards under Rule 10A-3 under the Exchange Act. Our directors are elected annually at each annual meeting of our company's shareholders. Currently, our board of directors assesses potential director candidates for required skills, expertise, independence and other factors, but after the offering, we intend for our Nominating Committee to take responsibility for this action.

Our Board of Directors is responsible for appointing our company's officers.

Board Committees

We have established three committees under the board of directors: an Audit Committee, a Compensation Committee and a Nominating Committee. Each committee is governed by a

charter approved by our Board of Directors. In addition, we have an informal Strategic Advisory Board that will assist the board in setting strategies, achieving goals and analyzing opportunities.

Audit Committee

We appointed to our Audit Committee three directors that satisfy the "independence" requirements of Rule 5605(a)(2) of the Listing Rules of the Nasdaq Stock Market and meet the independence standards under Rule 10A-3 under the Exchange Act. One of our directors on the Audit Committee is an "audit committee financial expert" within the meaning of the SEC rules and possesses financial sophistication within the meaning of the Listing Rules of the Nasdaq Stock Market. The Audit Committee oversees our accounting and financial reporting processes and the audits of the financial statements of our company. The Audit Committee is responsible for, among other things:

- selecting our independent registered public accounting firm and pre-approving all auditing and non-auditing services permitted to be performed by our independent registered public accounting firm;
- reviewing with our independent registered public accounting firm any audit problems or difficulties and management's response and approving all proposed related-party transactions, as defined in Item 404 of Regulation S-K;
- discussing the annual audited financial statements with management and our independent registered public accounting firm;
- annually reviewing and reassessing the adequacy of our Audit Committee charter;
- meeting separately and periodically with the management and our independent registered public accounting firm;
- reporting regularly to the full board of directors;
- reviewing the adequacy and effectiveness of our accounting and internal control policies and procedures and any steps taken to monitor and control major financial risk exposure; and
- such other matters that are specifically delegated to our Audit Committee by our board of directors from time to time.

Compensation Committee

We appointed to our Compensation Committee three directors that will satisfy the "independence" requirements of Rule 5605(a)(2) of the Listing Rules of the Nasdaq Stock Market and meet the independence standards under Rule 10A-3 under the Exchange Act. Our Compensation Committee assists the board in reviewing and approving the compensation structure, including all forms of compensation, relating to our directors and executive officers. No officer may be present at any committee meeting during which such officer's compensation is deliberated upon. The Compensation Committee is responsible for, among other things:

- reviewing and approving to the board with respect to the total compensation package for our most senior executive officers;
- approving and overseeing the total compensation package for our executives other than the most senior executive officers;
- reviewing and recommending to the board with respect to the compensation of our directors;
- reviewing periodically and approving any long-term incentive compensation or equity plans;
- selecting compensation consultants, legal counsel or other advisors after taking into consideration all factors relevant to that person's independence from management; and
- programs or similar arrangements, annual bonuses, employee pension and welfare benefit plans.

Nominating Committee

We appointed to our Nominating Committee three directors that satisfy the "independence" requirements of Rule 5605(a)(2) of the Listing Rules of the Nasdaq Stock Market and meet the independence standards under Rule 10A-3 under the Exchange Act. The Nominating Committee is responsible for overseeing the selection of persons to be nominated to serve on our board of directors. The Nominating Committee considers persons identified by its members, management, shareholders, investment bankers and others.

Strategic Advisory Board

We have appointed a Strategic Advisory Board. Although the Strategic Advisory Board has no formal powers, our Board of Directors plans to consult it in setting strategies, achieving goals and analyzing opportunities. Our Strategic Advisory Board currently has three members;

Dr. Heiner Dreismann. Dr. Dreismann joined in November 2021. He is a seasoned executive with more than 35 years of experience in the life sciences and health care industries and widely regarded as a pioneer in the early adoption of polymerase chain reaction (PCR) technique, one of the most ubiquitous technologies in molecular biology and genetics research today. He joined F. Hoffmann La Roche AG in 1985, and held various national and international management positions, including head of manufacturing for microbiological diagnostics, head of R&D microbiological diagnostics and head of the Business Area Microbiology. After Roche's acquisition of PCR technology in 1991, Dr. Dreismann headed the PCR Business Unit for Europe and strategic planning for PCR diagnostics. From 2000 to 2006 he was President and CEO of Roche Molecular Systems in Pleasanton, California. Other senior positions he held in Roche included Head of Global Business Development, Roche Diagnostics and Member of Roche's Global Diagnostic Executive Committee. Dr. Dreismann currently serves on the boards of several public and private life sciences and health care companies in the United States, Europe and Israel.

Dr. Soren Thestrup-Nielsen. Dr. Thestrup-Nielsen has spent over 25 years in the medical device industry, first at Boston Scientific and later at Danaher Corporation where he led the inorganic growth of Danaher's acute care and laboratory diagnostics portfolio. He has previously held a series of notable executive roles including Chairman of Althea Group, as well as board member at numerous companies including lung cancer screening company Oncimmune. During his career, Dr. Thestrup-Nielsen has overseen IPOs, trade-sales, acquisitions, and a variety of investment transactions with medical companies in both North America and Europe. He received a M.D. from the University of Copenhagen, School of Medicine, practiced five years as a general & vascular surgeon, and received an MBA from the IMD in Lausanne, Switzerland.

Dr. Michele Pedrocchi. Dr. Pedrocchi is a seasoned healthcare executive with over 25 years of international experience at Roche spanning in vitro diagnostics, digital health, and personalized medicine. During his tenure at Roche, Dr. Pedrocchi held senior leadership positions across corporate strategy, commercial and business development including, serving as Global Head of Strategy and Business Development for Diagnostics. Under his leadership, the division pioneered the entry into digital health and executed more than 20 acquisitions and 500 licensing deals. Prior leadership positions held at Roche included multiple international roles where Dr. Pedrocchi served as in-country and regional general

manager and consistently built a track record of profitably growing businesses in emerging and mature markets. Moreover, he had an instrumental role in introducing patient selection through Companion Diagnostics (CDx) and establishing polymerase chain reaction (PCR) as a routine diagnostics methodology. Dr. Pedrocchi is currently an Independent Strategic Advisor and Non-Executive Director to private and public healthcare companies.

Dr. Rainer Metzger. Dr. Metzger is a solution-driven leader with significant achievement record in the development, leadership and execution of successful organizational and product development programs for pharmaceutical and diagnostics companies paired with insightful managerial and executive experience gained with venture-based start-up and mid-cap companies. Dr. Metzger's career includes senior management roles at Medcover, Qiagen, Danaher, Roche and Genentech. Dr. Metzger received his Ph.D. in Biology and a Masters' Degree in Biology from the University of Heidelberg.

D. Employees

As of April 16, 2022, the breakdown of employees by main category of activity is as follows:

| Activity | Number of Full-Time Employees | Number of Part-Time Employees |
|---------------------------------------|-------------------------------|-------------------------------|
| Manufacturing and Clinical Laboratory | 3 | 2 |
| Research & Development | 7 | 0 |
| Sales & Marketing | 5 | 2 |
| General & Administration | 7 | 0 |
| Executives | 5 | 0 |
| Total: | 27 | 4 |

None of our employees are covered by a collective bargaining agreement.

E. Share Ownership

Shares

The shareholdings of our officers and directors are set out in Item 7 below.

Options, Warrants and Other Convertible Securities

The stock options, exercisable into ordinary shares of the Company, held by our officers and directors are set out in Item 6 B above. Our officers and directors do not hold any other securities convertible into our ordinary shares.

ITEM 7. MAJOR SHAREHOLDERS AND RELATED PARTY TRANSACTIONS

A. Major Shareholders

Security Ownership of Certain Beneficial Owners and Management

The following table sets forth certain information regarding the beneficial ownership of our ordinary shares as of April 15, 2022 by (a) each shareholder who is known to us to own beneficially 5% or more of our outstanding ordinary shares; (b) all directors; (c) our executive officers and (d) all executive officers and directors as a group. Except as otherwise indicated, all persons listed below have (i) sole voting power and investment power with respect to their ordinary shares, except to the extent that authority is shared by spouses under applicable law, and (ii) record and beneficial ownership with respect to their ordinary shares.

| Name | Ordinary Shares Beneficially Owned ⁽¹⁾ | Percentage of Ordinary Shares Beneficially Owned ⁽¹⁾ |
|---|---|---|
| Directors and Executive Officers: | | |
| Guido Baechler, <i>Chief Executive Officer, Director</i> ⁽²⁾ | 488,432 | 3.4% |
| William Caragol, <i>Chief Financial Officer</i> ⁽³⁾ | 77,975 | 0.6% |
| Dr. Moritz Eidens, <i>Chief Scientific Officer, Director</i> ⁽⁴⁾ | 1,007,615 | 7.2% |
| Alberto Libanori, <i>Director</i> | — | — |
| Hans Hekland, <i>Director</i> ⁽⁵⁾ | 821,427 | 5.9% |
| Philipp Freese, <i>Chief Operating Officer</i> ⁽⁶⁾ | 243,239 | 1.7% |
| Nicole Holden, <i>Director</i> | — | — |
| Directors and Executive Officers as a Group (Seven Persons) | 2,638,688 | 18.2% |
| Other 5% or more Shareholders: | | |
| Kreditanstalt für Wiederaufbau ⁽⁷⁾ | 1,237,501 | 8.9% |
| ColoAlert AS ⁽⁵⁾ | 821,427 | 5.9% |

(1) Based on 13,960,487 ordinary shares outstanding.

(2) Includes 233,925 ordinary shares underlying options that may be exercised within the next 60 days.

(3) Includes 77,975 ordinary shares underlying options that may be exercised within the next 60 days.

(4) Includes 116,963 ordinary shares underlying options that may be exercised within the next 60 days.

(5) Hans Hekland has dispositive and voting control over the shares held by ColoAlert AS.

(6) Includes 116,963 ordinary shares underlying options that may be exercised within the next 60 days.

(7) Kreditanstalt für Wiederaufbau (known as KfW) is a public law institution (*Anstalt des öffentlichen Rechts*) serving domestic and international public policy objectives of the Federal Government of the Federal Republic of Germany.

Transfer Agent

We have appointed Transhare Corporation as the transfer agent for our ordinary shares. Transhare Corporation's telephone number and address is (303) 662-1112 and 17755 US Hwy 19 N, Clearwater, FL 33764.

B. Related Party Transactions

Apart from the employment and consulting agreements described elsewhere in this annual report and the agreements with ColoAlert AS (one of our directors is a director and controlling shareholder of ColoAlert AS) described below under "Material Agreements", we have not entered into any material transactions with our directors, officers, promoters and shareholders or who beneficially own more than 10% of our ordinary shares (or their immediate family members). We have the following arrangements with immediate family members of related parties that we consider to be arms'-length and immaterial: (i) we have a services arrangement with the wife of our Chief Operating Officer whereby we pay her approximately €5,400 per year, (ii) we have an employment agreement with the wife of our Chief Scientific Officer whereby we pay her approximately €42,000 per year and (iii) we have entered into a loan agreement with the father of our Chief Scientific Officer whereby a €50,000 loan bearing 6% annual interest is due on January 31, 2023.

C. Interests of Experts and Counsel

Not Applicable.

ITEM 8. FINANCIAL INFORMATION

A. Consolidated Statements and Other Financial Information

Financial Statements

Our financial statements for the year ended December 31, 2021 have been prepared in accordance with IFRS, as issued by the International Accounting Standards Board, or IASB, and are included under Item 18 of this annual report. Such financial statements have been so included in reliance on the report of BF Borgers CPA P.C., an independent registered public accounting firm (PCAOB ID: 5041), given on the authority of said firm as experts in accounting and auditing. BF Borgers CPA P.C. has offices at 5400 W Cedar Ave, Lakewood, CO 80226. Their telephone number is (303) 953-1454.

Legal Proceedings

As of the date of this Annual Report, in the opinion of our management, we are not currently a party to any litigation or legal proceedings which are material, either individually or in the aggregate, and, to our knowledge, no legal proceedings of a material nature involving us currently are contemplated by any individuals, entities or governmental authorities.

Dividends

We have not paid any dividends on our ordinary shares since incorporation. Our management anticipates that we will retain all future earnings and other cash resources for the future operation and development of our business. We do not intend to declare or pay any cash dividends in the foreseeable future. Payment of any future dividends will be at the Board's discretion, subject to applicable law, after taking into account many factors including our operating results, financial condition and current and anticipated cash needs.

B. Significant Changes

We have not experienced any significant changes since the date of the consolidated financial statements included with this Form 20-F except as disclosed in this Form 20-F.

ITEM 9. THE OFFER AND LISTING

A. Offer and Listing

Our ordinary shares are traded on the Nasdaq Capital Market under the symbol "MYNZ".

B. Plan of Distribution

Not Applicable.

C. Markets

Please see Section 9.A above.

D. Selling Shareholders

Not Applicable.

E. Dilution

Not Applicable.

F. Expenses of the Issue

Not Applicable.

ITEM 10. ADDITIONAL INFORMATION

A. Share Capital

Not Applicable.

B. Memorandum and Articles of Association

The following description of our Articles of Association is intended as a summary only and does not constitute legal advice regarding those matters and should not be regarded as such. The description is qualified in its entirety by reference to the complete text of the articles of association.

Overview

We were incorporated on March 8, 2021 as a private limited liability company (*besloten vennootschap met beperkte aansprakelijkheid*) under Dutch law, and on November 9, 2021 we converted into a Dutch public company with limited liability (*naamloze vennootschap*).

We are registered in the Commercial Register of the Chamber of Commerce (*Kamer van Koophandel*) in the Netherlands under number 82122571. We have our corporate seat in Amsterdam, the Netherlands and our registered office is at Robert-Koch Strasse 50, 55129 Mainz, Federal Republic of Germany.

The ordinary shares to be sold in this offering will be subject to, and will have been created under, Dutch law. Set forth below is a summary of relevant information concerning the material provisions of our articles of association and applicable Dutch law.

Board of Directors

We have a one-tier board structure. Upon the closing of the offering, the board of directors of the Company (the "Board of Directors") will consist of two executive directors and three non-executive directors. The Board of Directors shall consist of such number of executive Directors as the Board of Directors may determine.

The Board of Directors will be charged with the management of the company. In fulfilling their duties, our directors will serve the interest of the company and the business connected with it. The executive directors and the executive committee are charged with the day-to-day management of the company. Supervision of the fulfilment of duties by the executive directors and of the general course of the company's affairs and the business connected with it will primarily be carried out by the non-executive directors. The executive directors must in due time provide the non-executive directors with the information they need to carry out their duties.

Our directors will be elected by the general meeting upon a binding nomination. The Board of Directors will be authorized to nominate one or more director candidates for appointment at the general meeting. Shareholders who individually or jointly represent at least 20% of the issued share capital will have the same right to nominate one or more director candidates for appointment at the general meeting. The general meeting may at all times overrule the binding nature of each nomination by a resolution adopted by a majority of at least two thirds of the votes cast, representing more than half of the issued share capital.

The general meeting may at any time suspend and dismiss a non-executive director or executive director. The general meeting may only adopt a resolution to suspend or dismiss a non-executive director or executive director by a majority of at least two thirds of the votes cast, representing more than half of the issued share capital, unless the resolution is adopted on the basis of a proposal of the Board of Directors.

Authorized Share Capital

Our authorized share capital consists of 45,000,000 ordinary shares with a nominal value of EUR 0.01 per share and 5,000,000 preferred shares with a nominal value of EUR 0.01 per share. The preferred shares are divided into five series, each consisting of 1,000,000 preferred shares. Currently there are no preferred shares outstanding.

The number of ordinary shares included in the authorized share capital may be decreased and the number of preferred shares included in the authorized share capital may be increased pursuant to a resolution of the Board of Directors by a number not exceeding the number of ordinary shares included in the authorized share capital which have not been issued and which are not subject to any rights to subscribe for ordinary shares.

The preferred shares may, at the request of the holder, be converted into ordinary shares. The conditions for conversion and the further terms and conditions related to the preferred shares will be determined by our Board of Directors, subject to the prior approval of our general meeting and the meeting of holders of the series of preferred shares concerned, if such series of preferred shares has been issued and are held by persons other than us. The preceding sentence applies by analogy to any adjustment to the conditions.

Issuance of shares

Under Dutch law, shares are issued and rights to subscribe for shares are granted pursuant to a resolution of our general meeting. Our articles of association provide that the general meeting may only resolve to issue shares upon the proposal of our Board of Directors. The general meeting may authorize the Board of Directors to issue new ordinary shares or grant rights to subscribe for ordinary shares. The authorization can be granted and extended, in each case for a period not exceeding five years. For as long as, and to the extent, that such authorization is effective, our general meeting will not have the power to issue ordinary shares.

A resolution of the general meeting has irrevocably authorized our Board of Directors until November 9, 2026, to issue ordinary shares and preferred shares up to the amount of the authorized share capital (from time to time).

Pre-emptive Rights

Subject to restrictions in our articles of association, holders of ordinary shares have pre-emptive rights in relation to newly issued ordinary shares under Dutch law.

Under our articles of association, the pre-emptive rights in respect of newly issued ordinary shares may be restricted or excluded by a resolution of our general meeting, which resolution requires a two-thirds majority of the votes cast if less than half of the issued share capital is present or represented at the meeting. The general meeting may authorize our Board of Directors to limit or exclude the pre-emptive rights in respect of newly issued ordinary shares. Such authorization for our Board of Directors can be granted and extended, in each case for a period not exceeding five years.

A resolution of the general meeting has irrevocably authorize our Board of Directors until November 9, 2026 to limit or exclude pre-emptive rights on ordinary shares.

Pre-emptive rights do not exist with respect (a) to the issue of ordinary shares or grant of rights to subscribe for ordinary shares to our employees or a "group" company of ours, (b) the issue of ordinary shares against a contribution other than cash, and (c) preferred shares to be issued. A holder of preferred shares has no pre-emptive right to acquire newly

Transfer of Ordinary Shares

Under Dutch law, transfers of ordinary shares (other than in book-entry form) require a written deed of transfer and, unless the company is a party to the deed of transfer, and acknowledgement by or proper service upon the company to be effective.

Our articles of association provide that, if one or more ordinary shares or preferred shares are admitted to trading on Nasdaq or any other regulated foreign stock exchange located in the United States the laws of the State of New York will apply to the property law aspects of the ordinary shares and preferred shares included in the part of the register of shareholders kept by the relevant transfer agent.

Form of Ordinary Shares

Pursuant to our articles of association, the ordinary shares and preferred shares are in registered form.

Purchase and Repurchase of Ordinary Shares

Under Dutch law, we may not subscribe for newly issued ordinary shares. We may acquire ordinary shares, subject to applicable provisions and restrictions of Dutch law and our articles of association, to the extent that:

- such ordinary shares are fully paid-up;
- such repurchase would not cause our shareholders' equity to fall below an amount equal to the sum of the paid-up and called-up part of the issued share capital and the reserves we are required to maintain pursuant to Dutch law or our articles of association; and
- immediately after the acquisition of such ordinary shares, we and our subsidiaries would not hold, or would not hold as pledgees, shares having an aggregate nominal value that exceeds 50% of our issued share capital.

Other than ordinary shares acquired for no valuable consideration or under universal title of succession (*onder algemene titel*) (e.g., through a merger or spin off) under statutory Dutch or other law, we may acquire ordinary shares only if our general meeting has authorized our Board of Directors to do so. An authorization by our general meeting for the acquisition of ordinary shares can be granted for a maximum period of 18 months. Such authorization must specify the number of ordinary shares that may be acquired, the manner in which these shares may be acquired and the price range within which the shares may be acquired. No authorization of our general meeting is required if ordinary shares are acquired by us on Nasdaq with the intention of transferring such ordinary shares to our employees or employees of a group company pursuant to an arrangement applicable to them. For each annual general meeting, we expect that our Board of Directors, will place on the agenda a proposal to re-authorize our Board of Directors to repurchase shares for a period of 18 months from the date of the resolution. We cannot derive any right to any distribution from ordinary shares, or voting rights attached to ordinary shares acquired by it.

A resolution of the general meeting has irrevocably authorized our Board of Directors for a period of 18 months to resolve for us to acquire fully paid-up ordinary shares up to the maximum number of ordinary shares permitted pursuant to the law and our articles of association from time to time, through privately negotiated repurchases, in self-tender offers, or through accelerated repurchase arrangements, at prices ranging from the nominal value of the ordinary shares up to one hundred and ten percent (110%) of the market price of ordinary shares, provided that (i) for open market or privately negotiated repurchases, the market price will be the last closing price for ordinary shares on the Nasdaq Stock Market prior to the transaction, (ii) for self-tender offers, the market price will be the volume weighted average price for the ordinary shares on the Nasdaq Capital Market during a period, determined by the Board of Directors, of no less than one and no more than five consecutive trading days immediately prior to the expiration of the tender offer, and (iii) for accelerated repurchase arrangements, the market price will be the volume weighted average price of the ordinary shares on the Nasdaq Capital Market over the term of the arrangement. The volume weighted average price for any number of trading days will be calculated as the arithmetic average of the daily volume weighted average price on those trading days.

Pursuant to a resolution of the general meeting dated November 1, 2021, our Board of Directors is furthermore irrevocably authorized for a period of 18 months, commencing on November 9, 2021, to resolve for us to acquire fully paid up preferred shares up to the maximum number of preferred shares permitted pursuant to the law and our articles of association from time to time and that preferred shares may be acquired through privately negotiated repurchases, in self-tender offers, or through accelerated repurchase arrangements, at prices ranging from the nominal value of the preferred shares up to the higher of (i) the amount that would be paid by us upon cancellation of such preferred shares in accordance with the relevant provisions of our articles of association and (ii) one hundred and ten percent (110%) of the market price of the ordinary shares into which the preferred shares may be converted in accordance with the applicable provisions of our articles of association, whereby the market price shall be determined in the manner as set out in our articles of association.

Capital Reduction

At a general meeting, our shareholders may resolve on the proposal of our Board of Directors to reduce our issued share capital by (i) cancelling ordinary shares and preferred shares or (ii) reducing the nominal value of the ordinary shares and preferred shares by amending our articles of association. In either case, this reduction would be subject to applicable statutory provisions. A resolution to cancel shares may only relate to (i) shares held by us or in respect of which we hold the depository receipts, or (ii) all preferred shares of a particular series. In order to be approved by our general meeting, a resolution to reduce the capital requires approval of a majority of the votes cast at a general meeting if at least half of the issued share capital is represented at such meeting or at least two thirds of the votes cast, if less than half of the issued share capital is represented at such meeting.

Reduction of the nominal value of shares without repayment shall be effected proportionally to all ordinary shares and preferred shares. The requirement of proportionality may be waived by agreement of all shareholders concerned.

A resolution that would result in a reduction of capital requires approval by a majority of the votes cast of each group of shareholders of the same class whose rights are prejudiced by the reduction. In addition, a reduction of capital involves a two-month waiting period during which creditors have the right to object to a reduction of capital under specified circumstances.

General Meeting

General meetings are held in Amsterdam, Rotterdam, The Hague, Arnhem, Utrecht, or in the municipality of Haarlemmermeer (Schiphol Airport), the Netherlands. All of our shareholders and others entitled to attend our general meetings are authorized to address the meeting and, in so far as they have such right, to vote, either in person or by proxy.

We will hold at least one general meeting each year, to be held within six months after the end of its financial year. A general meeting will also be held within three months after our Board of Directors has determined it to be likely that our equity has decreased to an amount equal to or lower than half of its paid up and called up capital, in order to discuss the measures to be taken if so required. If our Board of Directors fails to hold such general meeting in a timely manner, each shareholder and other person entitled to attend our general meeting may be authorized by the Dutch court to convene our general meeting.

Our Board of Directors may convene additional extraordinary general meetings at its discretion, subject to the notice requirements described below. Pursuant to Dutch law, one or more shareholders and/or others entitled to attend general meetings of shareholders, alone or jointly representing at least 10% of our issued share capital, may on their application be authorized by the Dutch court to convene a general meeting. The Dutch court will disallow the application if (i) the applicants have not previously requested in writing that our Board of Directors convenes a shareholders' meeting or (ii) our Board of Directors convenes a shareholders' meeting or (ii) our Board of Directors has not taken the necessary steps so that the shareholders' meeting could be held within six weeks after such request.

The general meeting is convened by a notice, which includes an agenda stating the items to be discussed and the location and time of our general meeting. For the annual general meeting the agenda will include, among other things, the adoption of our annual accounts, the appropriation of its profits or losses and proposals relating to the composition of and filling of any vacancies on Board of Directors. In addition, the agenda for a general meeting includes such additional items as determined by our Board of Directors. Pursuant to Dutch law, one or more shareholders and/or others entitled to attend general meetings of shareholders, alone or jointly representing at least 3% of the issued share capital, have the right to request the inclusion of additional items on the agenda of shareholders' meetings. Such requests must be made in writing, and may include a proposal for a shareholder resolution, and must be received by us no later than on the 60th day before the day the relevant shareholders' meeting is held. Under our articles of association, certain items can only be put on the agenda as a voting item by our Board of Directors. Shareholders meeting the relevant requirements may still request the inclusion of such items on the agenda as a discussion item.

We will give notice of each general meeting by publication on its website and, to the extent required by applicable law, in a Dutch daily newspaper with national distribution, and in any other manner that we may be required to follow in order to comply with Dutch law and applicable stock exchange and SEC requirements. We will observe the statutory minimum convening notice period for a general meeting. Holders of registered shares may further be provided notice of the meeting in writing at their addresses as stated in its shareholders' register.

Pursuant to our articles of association and Dutch law, our Board of Directors may determine a record date (*registratiedatum*) of 28 calendar days prior to a general meeting to establish which shareholders and others with meeting rights are entitled to attend and, if applicable, vote at our general meeting. The record date, if any, and the manner in which shareholders can register and exercise their rights will be set out in the notice of our general meeting. Our articles of association provide that a shareholder must notify us in writing of his or her intention to attend (or be represented at) our general meeting, such notice to be received by us on the date set by our Board of Directors in accordance with our articles of association and as set forth in the convening notice.

Our general meeting will be presided over by the chairman of our Board of Directors, who, nevertheless, may charge another person to preside over the meeting in his place even if he or she is present at the meeting. If the chairman of our Board of Directors is absent and he or she has not charged another person to preside over the meeting in his or her place, the directors present at the meeting will appoint one of them to be chairman. In the absence of all directors, our general meeting will appoint its chairman.

Voting Rights and Quorum

In accordance with Dutch law and our articles of association, each ordinary share, irrespective of which class it concerns, confers the right on the holder thereof to cast one vote at our general meeting. The voting rights attached to any ordinary shares held by us or our direct or indirect subsidiaries are suspended, unless the ordinary shares were encumbered with a right of usufruct or a pledge in favor of a party other than us or a direct or indirect subsidiary before such ordinary shares were acquired by us or such a subsidiary, in which case, the other party may be entitled to exercise the voting rights on the ordinary shares. We may not exercise voting rights for ordinary shares in respect of which its or a direct or indirect subsidiary has a right of usufruct or a pledge.

Voting rights may be exercised by shareholders or by a duly appointed proxy holder (the written proxy being acceptable to the chairman of our general meeting) of a shareholder, which proxy holder need not be a shareholder. The holder of a usufruct or pledge on shares will have the voting rights attached thereto if so provided for when the usufruct or pledge was created.

Under our articles of association, blank votes (votes where no choice has been made), abstentions and invalid votes will not be counted as votes cast. However, shares in respect of which a blank vote or invalid vote has been cast and shares in respect of which the person with meeting rights who is present or represented at the meeting has abstained from voting are counted when determining the part of the issued share capital that is present or represented at a general meeting. The chairman of our general meeting will determine the manner of voting and whether voting may take place by acclamation.

Resolutions of the shareholders are adopted at a general meeting by an absolute majority of votes cast, except where Dutch law or our articles of association provide for a special majority in relation to specified resolutions. Our articles of association do not provide for a quorum requirement, subject to any provision of mandatory Dutch law.

Subject to certain restrictions in our articles of association, the determination during our general meeting made by the chairman of that general meeting with regard to the results of a vote will be decisive. Our Board of Directors will keep a record of the resolutions passed at each general meeting.

Amendment of Articles of Association

At a general meeting, at the proposal of our Board of Directors, our general meeting may resolve to amend the articles of association. A resolution by the shareholders to amend the articles of association requires an absolute majority of the votes cast.

Dissolution and liquidation

Our shareholders may at a general meeting, based on a proposal by our Board of Directors, by means of a resolution passed by an absolute majority of the votes cast resolve that the Company will be dissolved. In the event of dissolution of the company, the liquidation will be effected by our executive directors, under the supervision of our non-executive directors, unless our general meeting decides otherwise.

Certain Other Major Transactions

Our articles of association and Dutch law provide that resolutions of our Board of Directors concerning a material change in our identity, character or business are subject to the approval of our general meeting. Such changes include:

- a transfer of all or materially all of its business to a third party;
- the entry into or termination of a long-lasting alliance of the company or of a subsidiary either with another entity or company, or as a fully liable partner of a limited partnership or partnership, if this alliance or termination is of significant importance to the company; and
- the acquisition or disposition of an interest in the capital of a company by the company or by its subsidiary with a value of at least one third of the value of our assets, according to the balance sheet with explanatory notes or, if the company prepares a consolidated balance sheet, according to the consolidated balance sheet with explanatory notes in our most recently adopted annual accounts.

Dividends and Other Distributions

The company may only make distributions to its shareholders if its equity exceeds the aggregate amount of the issued share capital and the reserves which must be maintained pursuant to Dutch law.

Under our articles of association, any profits or distributable reserves must first be applied to pay a dividend on the preferred shares, if outstanding. Any amount remaining out of distributable profits is added to our reserves as our Board of Directors determines. After reservation by our Board of Directors of any distributable profits, our general meeting will be authorized to declare distributions on the proposal of our Board of Directors. Our Board of Directors is permitted, to declare interim dividends without the approval of the shareholders. Interim dividends may be declared as provided in our articles of association and may be distributed to the extent that the shareholders' equity, based on interim financial statements, exceeds the paid-up and called-up share capital and the reserves that must be maintained under Dutch law or our articles of association. We may reclaim any distributions, whether interim or not interim, made in contravention of certain restrictions of Dutch law from shareholders that knew or should have known that such distribution was not permissible. In addition, on the basis of Dutch case law, if after a distribution we are not able to pay its due and collectable debts, then our shareholders or directors who at the time of the distribution knew or reasonably should have foreseen that result may be liable to its creditors.

The general meeting may determine that distributions will be made in whole or in part in the form of shares or a currency other than the Euro, provided on the proposal of the Board of Directors. The Company shall announce any proposal for a distribution and the date when and the place where the distribution will be payable to all shareholders by electronic means of communication with due observance of the applicable law and stock exchange rules. Claims for payment of dividends and other distributions not made within five years from the date that such dividends or distributions became payable will lapse, and any such amounts will be considered to have been forfeited to the company (*verjaring*).

C. Material Contracts

We set out below, other than those agreements discussed in the sections of this Annual Report entitled "Item 7.B – Related-Party Transactions," "Item 6.B – Compensation — Executive Compensation Agreements" and "Item 4.D — Property, Plant and Equipment", those material agreements that we have entered into outside of our ordinary course of business in the past three years.

Contribution Agreement

On September 20, 2021, we acquired PharmGenomics GmbH ("PharmGenomics") pursuant to the terms of a Contribution Agreement. Under the Contribution Agreement, we acquired all of the outstanding shares of PharmGenomics in exchange for 6,000,000 of our ordinary shares at a deemed valuation of \$2.00 per share. The ordinary shares issued to the shareholders of PharmGenomics equaled approximately 62% of our outstanding shares on the date of issuance. Under the Contribution Agreement, we were to establish prior to the closing of our initial public offering an equity incentive plan for a number of shares not to exceed 12% of our issued and outstanding stock. Additionally, under the Contribution Agreement we agreed not to terminate or relocate the business without the consent of each subsidiary of S-Innovations-Beteiligungsfinanzierungsgesellschaft Rheinland-Pfalz mbH, a company with limited liability under German law, that is a currently a shareholder or creditor of the Company for so long as such subsidiary remains a shareholder or creditor.

ColoAlert License and Development Agreement

On January 1, 2019, we entered into a License and Development Agreement (as amended, the "License Agreement") with ColoAlert AS whereby we were granted an exclusive, global sub-license to manufacture, market, and sublicense the ColoAlert CRC screening test. In 2017, ColoAlert AS obtained an exclusive license for the ColoAlert CRC screening test from Norda ASA. Under the License Agreement, ColoAlert AS has also engaged us to co-operate and further develop ColoAlert AS's technology.

In consideration of the exclusive license, we will pay ColoAlert AS (i) a fee of €5 per sample analyzed, payable at the end of each quarter and (ii) a quarterly profit split in which ColoAlert AS receives 50% of the profit from ColoAlert tests (the "Profit Split").

Either party has the right to terminate the Agreement in the event (i) a material breach is not cured within 30 days of notice; (ii) the other party enters into liquidation (other than for an amalgamation or reconstruction) or if a petition of bankruptcy is filed against either party and not dismissed within 60 days; and (iii) the other party is adjudicated bankrupt or insolvent. Furthermore, ColoAlert shall have the right to terminate the Agreement if the Profit Split is less than for each quarter (i) from January 1, 2020, to December 31, 2022, €25,000 and (ii) thereafter €250,000.

Option to Purchase Intellectual Property Assets

In February 2021, we entered into an Option to Purchase Intellectual Property Assets (the "Option Agreement") with ColoAlert and Norda ASA (together the "Optionors"), whereby we were granted the option to acquire the intellectual property related to ColoAlert (the "ColoAlert IP") within a three-year term. The intellectual property that we may acquire pursuant to the Option Agreement are trade secrets and no patents or patents pending currently exist in connection with such intellectual property. The Company believes that its future research and development activities related to ColoAlert, PancAlert and GenoStrip may lead to patent filings in the future.

Pursuant to the Option Agreement, we may purchase the ColoAlert IP in exchange for (i) €2,000,000 in cash or (ii) €4,000,000 to be paid in our ordinary shares. In the event that we exercise the option for cash, ColoAlert AS has the option to have us instead pay this amount in our ordinary shares.

Silent Partnership Agreements

We have entered into various silent partnership (loan) agreements with different investors as described below:

- In 2020, we entered into a Silent Partnership Agreement to borrow €499,400. Prior to December 31, 2020, we borrowed €299,400 and during the six months ended June 30,

2021, we borrowed the remaining €200,000 that we are to repay by December 31, 2025. We are required to a minimum of 3% interest per annum on the loans, and in addition, until maturity the lenders are entitled to 3% of our net income in each fiscal year that we are profitable. Upon the amounts coming due, the lenders have the option to demand an additional payment equal to 15% of the contribution as a final remuneration;

- In 2020, we borrowed €50,000 under silent partnership agreements that we are to repay by June 30, 2025. We are required to pay a minimum of 3.5% interest per annum on the loans, and in addition until maturity the lenders are entitled to 0.5% of our net income in each year that we are profitable;
- Between the years of 2013 to 2016, we entered into silent partnership agreements for loans totaling €798,694 (of which \$398,634 matures by June 30, 2023 and \$400,000 that matures on December 31, 2025). We must pay a minimum of 8.5% interest per annum on the loans, and in addition until maturity the lenders are entitled to 1.66% of our net income in each year that are profitable. At maturity, the lenders have the option to demand an additional payment equal to 30% of the principal of the loans;
- In 2010, we entered into a silent partnership agreement to borrow €300,000 that we are to repay January 31, 2023. We must pay a minimum of 8% interest per annum on the loan, and in addition until maturity the lender is entitled to 1.95% of our net income in each that we are profitable. At maturity, the lender has the option to demand an additional payment of up to 30% of the principal of the loan.

Technology Rights Agreement for the UdeS Biomarkers

In January 2022, we entered into a Technology Rights Agreement with Socpra Sciences Santé Et Humaines S.E.C. ("TTS") related to the UdeS Biomarkers. Pursuant to the agreement, we acquired an exclusive unilateral option to acquire an exclusive license to the UdeS Biomarkers in exchange for a payment of €10,000, future royalties, and an agreement to pay for the prosecution and maintenance of certain intellectual property relating to the UdeS Biomarkers. The option to license the technology is for one year, which period can be extended at our sole discretion for six additional months (the "Option Period").

We have a license during the Option Period to use the UdeS Biomarkers to further analyze their sensitivity and specificity. Depending on positive results from these further studies, we intend to exercise the option to license the UdeS Biomarkers for future integration into ColoAlert. If we exercise the option, we will pay the licensor a royalty on all products incorporating the UdeS Biomarkers and we will pay for the prosecution and maintenance of patents relating to the UdeS Biomarkers.

D. Exchange Controls

We are incorporated pursuant to the laws of the Netherlands. There is no law or governmental decree or regulation in the Netherlands that restricts the export or import of capital, or affects the remittance of dividends, interest or other payments to a non-resident holder of ordinary shares, other than withholding tax requirements. Any such remittances to U.S. residents are generally subject to withholding tax, however no such remittances are likely in the foreseeable future.

E. Taxation

Material Dutch Tax Income Tax Considerations

The following are the material Dutch tax consequences of the acquisition, ownership and disposal of our ordinary shares, and, to the extent it relates to legal conclusions under current Dutch tax law. This does not purport to set forth all possible tax considerations or consequences that may be relevant to all categories of investors, some of which may be subject to special treatment under applicable law (such as trusts or other similar arrangements), and in view of its general nature, it should be treated with corresponding caution. **Holders or prospective holders of ordinary shares should consult with their tax advisors with regard to the tax consequences of investing in the ordinary shares in their particular circumstances.**

Please note that this section does not set forth the tax considerations for:

- Holders of ordinary shares if such holders, and in the case of individuals, his/her partner or certain relatives by blood or marriage in the direct line (including foster children), have a substantial interest (*aanmerkelijk belang*) or a deemed substantial interest (*fictief aanmerkelijk belang*) in us under the Dutch Income Tax Act 2001 (*Wet inkomstenbelasting 2001*). A holder of ordinary shares in a company is considered to hold a substantial interest in such company if such holder alone or, in the case of individuals, together with his/her partner (as defined in the Dutch Income Tax Act 2001), directly or indirectly holds (i) an interest of 5% or more of the total issued and outstanding capital of that company or of 5% or more of the issued and outstanding capital of a certain class of shares of that company; or (ii) rights to acquire, directly or indirectly, such interest; or (iii) certain profit sharing rights in that company that relate to 5% or more of the company's annual profits and/or to 5% or more of the company's liquidation proceeds. A deemed substantial interest may arise if a substantial interest (or part thereof) in a company has been disposed of, or is deemed to have been disposed of, on a non-recognition basis;
- A holder of ordinary shares that is not an individual for which its shareholdings qualify or qualified as a participation (*deelneming*) for purposes of the Dutch Corporate Income Tax Act 1969 (*Wet op de vennootschapsbelasting 1969*). A taxpayer's shareholding of 5% or more in a company's nominal paid-up share capital (or, in certain cases, in voting rights) qualifies as a participation. A holder may also have a participation if such holder does not have a shareholding of 5% or more but a related entity (*verbonden lichaam*) has a participation or if the company in which the shares are held is a related entity (*verbonden lichaam*);
- Holders of ordinary shares who are individuals for whom the ordinary shares or any benefit derived from the ordinary shares are a remuneration or deemed to be a remuneration for (employment) activities performed by such holders or certain individuals related to such holders (as defined in the Dutch Income Tax Act 2001); and
- Pension funds, investment institutions (*fiscale beleggingsinstellingen*), exempt investment institutions (*vrijgestelde beleggingsinstellingen*) and other entities that are, in whole or in part, not subject to or exempt from corporate income tax in the Netherlands, as well as entities that are exempt from corporate income tax in their country of residence, such country of residence being another state of the European Union, Norway, Liechtenstein, Iceland or any other state with which the Netherlands have agreed to exchange information in line with international standards.

Except as otherwise indicated, this section only addresses Dutch national tax legislation and published regulations, whereby the Netherlands and Dutch law means the part of the Kingdom of the Netherlands located in Europe and its law, respectively, as in effect on the date hereof and as interpreted in published case law until this date, without prejudice to any amendment introduced (or to become effective) at a later date and/or implemented with or without retroactive effect. The applicable tax laws or interpretations thereof may change, or the relevant facts and circumstances may change, and such changes may affect the contents of this section, which will not be updated to reflect any such changes.

Holders of ordinary shares are generally subject to Dutch dividend withholding tax at a rate of 15% on dividends distributed by us. We are required to withhold such Dutch dividend withholding tax at source (which dividend withholding tax will not be borne by us but will be withheld by us from the gross dividends paid on the ordinary shares). However, as long as we continue to have our place of effective management in Germany, and not in the Netherlands, we will be considered to be solely tax resident in Germany for purposes of the Convention between the Federal Republic of Germany and the Netherlands for the avoidance of double taxation and prevention of fiscal evasion with respect to taxes on income (the "German-Dutch tax treaty"), and we will in principle not be required to withhold Dutch dividend withholding tax. This exemption from withholding Dutch dividend withholding tax may not apply to dividends distributed by us to a holder who is resident or deemed to be resident in the Netherlands for Dutch income tax purposes or Dutch corporate income tax purposes or to holders of ordinary shares that are neither resident nor deemed to be resident of the Netherlands if the ordinary shares are attributable to a Dutch permanent establishment of such non-resident holder, in which case the following paragraph applies.

Dividends distributed by us to individuals and corporate legal entities who are resident or deemed to be resident in the Netherlands for Dutch (corporate) income tax purposes ("Dutch Resident Individuals" and "Dutch Resident Entities," as the case may be) or to holders of ordinary shares that are neither resident nor deemed to be resident of the Netherlands if the ordinary shares are attributable to a Dutch permanent establishment of such non-resident holder are generally subject to Dutch dividend withholding tax at a rate of 15%. The expression "dividends distributed" include, but are not limited to:

- Distributions in cash or in kind, deemed and constructive distributions and repayments of paid-in capital not recognized for Dutch dividend withholding tax purposes;
- Liquidation proceeds, proceeds of redemption of shares, or proceeds of the repurchase of shares by us or one of our subsidiaries or other affiliated entities to the extent such proceeds exceed the average paid-in capital of those shares as recognized for purposes of Dutch dividend withholding tax, unless, in case of a repurchase, a particular statutory exemption applies;
- An amount equal to the par value of shares issued or an increase of the par value of shares, to the extent that it does not appear that a contribution, recognized for purposes of Dutch dividend withholding tax, has been made or will be made; and
- Partial repayment of the paid-in capital, recognized for purposes of Dutch dividend withholding tax, if and to the extent that we have net profits (*zuivere winst*), unless the holders of shares have resolved in advance at a general meeting to make such repayment and the par value of the shares concerned has been reduced by an equal amount by way of an amendment of our articles of association. The term "net profits" includes anticipated profits that have yet to be realized.

Dutch Resident Individuals and Dutch Resident Entities may credit the Dutch dividend withholding tax against their income tax or corporate income tax liability (maximized to the amount of corporate income tax due in that financial year) or may under certain circumstances be entitled to an exemption. The same applies to holders of ordinary shares that are neither resident nor deemed to be resident of the Netherlands if the shares are attributable to a Dutch permanent establishment of such non-resident holder. Depending on their specific circumstances, holders of ordinary shares that are resident in a country other than the Netherlands, may be entitled to exemptions from, reduction of, or full or partial refund of, Dutch dividend withholding tax pursuant to Dutch law, EU law or treaties for avoidance of double taxation.

On November 2, 2021, the Dutch Parliament adopted a proposal of law to which an alternative withholding tax (the "Alternative Dividend Withholding Tax") will be imposed on dividends paid to related entities in designated low-tax jurisdictions and in certain abusive situations, effective January 1, 2024. The Alternative Dividend Withholding Tax may be imposed at the highest Dutch corporate income tax rate in effect at the time of the distribution (currently 25.8%), if the shareholder entitled to those dividend payments has such an interest in us, possibly as part of a cooperating group, that such party can exert such influence on our decisions as to determine our activities, while that shareholder is established in a jurisdiction that is included in the Regulation of low-taxing countries and non-cooperative jurisdictions for tax purposes (*Regeling laagbelastende staten en niet-coöperatieve rechtsgebieden voor belastingdoeleinden*), or has a relevant connection therewith.

However, as long as we continue to have our place of effective management in Germany, and not in the Netherlands, we will be considered to be solely tax resident in Germany for purposes of the German-Dutch tax treaty, and we will in principle not be required to withhold the Alternative Dividend Withholding Tax.

Pursuant to legislation to counteract "dividend stripping," a reduction, exemption, credit or refund of Dutch dividend withholding tax is not granted if the recipient of the dividend is not the beneficial owner (*uiteindelijk gerechtigde*) as described in the Dutch Dividend Withholding Tax Act 1965 (*Wet op de dividendbelasting 1965*) of such dividends. This legislation targets situations in which a shareholder retains its economic interest in shares but reduces the withholding tax costs on dividends by a transaction with another party. It is not required for these rules to apply that the recipient of the dividends is aware that a dividend stripping transaction took place. The Dutch State Secretary of Finance takes the position that the definition of beneficial ownership introduced by this legislation will also apply in the context of a double taxation convention.

Taxes on Income and Capital Gains

Dutch Resident Individuals

If a holder of ordinary shares is a Dutch Resident Individual, any benefit derived or deemed to be derived from the shares is taxable at the progressive income tax rates, if:

- the ordinary shares are attributable to an enterprise from which the Dutch Resident Individual derives a share of the profit, whether as an entrepreneur (*ondernemer*) or as a person who has a co-entitlement to the net worth (*medegerechtigd tot het vermogen*) of such enterprise, without being an entrepreneur or a shareholder in such enterprise, as defined in the Dutch Income Tax Act 2001; or
- the holder of the shares is considered to derive benefits from the shares that are taxable as benefits from other activities (*resultaat uit overige werkzaamheden*), such as activities with respect to the shares that go beyond ordinary asset management (*normaal actief vermogensbeheer*).

If the above-mentioned conditions (i) and (ii) do not apply to the individual holder of ordinary shares, such Dutch Resident Individual holder will be subject to an annual income tax imposed on a deemed return on the net value of the ordinary shares under the regime for savings and investments (*inkomen uit sparen en beleggen*). Irrespective of the actual income and capital gains realized, the deemed annual return of the Dutch Resident Individual's net investment assets that are taxed under this regime, including the ordinary shares, is set at a variable percentage of the net value of the investment assets (with a maximum of 5.53% in 2022). Such fictitious annual return deemed to be derived from the ordinary shares will be taxed at a flat rate of 31% in 2022.

The net value of the investment assets for the year are the fair market value of the investment assets less the allowable liabilities on January 1 of the relevant calendar year. The ordinary shares are included as investment assets. A tax-free allowance of €50,650 is available (2022). For the avoidance of doubt, actual income, capital gains or losses in respect of the ordinary shares are as such not subject to Dutch income tax under the regime for savings and investments (*inkomen uit sparen en beleggen*). The deemed, variable return will be adjusted annually on the basis of historic market yields.

Dutch Resident Entities

Any benefit derived or deemed to be derived from the shares held by Dutch Resident Entities, including any capital gains realized on the disposal thereof, will be subject to Dutch corporate income tax at a rate of 15% with respect to taxable profits up to €395,000 and 25.8% with respect to taxable profits in excess of that amount (rates and brackets for 2022).

Non-residents of the Netherlands

A holder of ordinary shares that is neither a Dutch Resident Individual nor a Dutch Resident Entity will not be subject to Dutch taxes on income or on capital gains in respect of any payment under shares or any gain realized on the disposal or deemed disposal of the shares, provided that:

- such holder does not have an interest in an enterprise which, in whole or in part, is either effectively managed in the Netherlands or is carried out through a permanent establishment, or a permanent representative in the Netherlands and to which enterprise or part of an enterprise the shares are attributable; and
- in the event such holder is an individual, such holder does not derive benefits from the shares that are taxable as benefits from other activities in the Netherlands, such as activities in the Netherlands with respect to the shares that go beyond ordinary asset management.

Under certain specific circumstances, Dutch taxation rights may be restricted for a holder of ordinary shares that is neither a Dutch Resident Individual nor a Dutch Resident Entity pursuant to treaties for the avoidance of double taxation.

Gift and Inheritance Taxes

Residents of the Netherlands

Gift or inheritance taxes will arise in the Netherlands with respect to a transfer of the ordinary shares by way of a gift by, or on the death of, a holder of ordinary shares who is resident or deemed to be resident in the Netherlands at the time of the gift or the holder's death.

Non-residents of the Netherlands

No Dutch gift or inheritance taxes will arise on the transfer of the ordinary shares by way of gift by, or on the death of, a holder of ordinary shares who is neither resident nor deemed to be resident in the Netherlands, unless:

- in the case of a gift of ordinary shares by an individual who at the date of the gift was neither resident nor deemed to be resident in the Netherlands, such individual dies within 180 days after the date of the gift, while being resident or deemed to be resident in the Netherlands; or
- the transfer is otherwise construed as a gift, such as a gift that is made under a condition precedent, or inheritance made by, or on behalf of, a person who, at the time of the gift or death, is or is deemed to be resident in the Netherlands.

For purposes of Dutch gift and inheritance taxes, a person that holds the Dutch nationality will be deemed to be resident in the Netherlands if such person has been resident in the Netherlands at any time during the 10 years preceding the date of the gift or his/her death. Additionally, for purposes of Dutch gift tax, any person, irrespective of his nationality will be deemed to be resident in the Netherlands if such person has been resident in the Netherlands at any time during the 12 months preceding the date of the gift.

Other Taxes and Duties

No Dutch value-added tax (*omzetbelasting*) and no Dutch registration tax, stamp duty or any other similar documentary tax or duty will be payable by a holder of shares on any payment in consideration for the acquisition, ownership or disposal of the shares.

F. Dividends and Paying Agents

Not Applicable.

G. Statements by Experts

Not Applicable.

H. Documents on Display

The documents concerning us which are referred to in this Annual Report may be inspected at our offices located at Robert Koch Strasse 50, 55129 Mainz, Germany. The documents referred to in this Annual Report that have been filed as exhibits to other filings with the SEC may be inspected and copied at the public reference facility maintained by the SEC at 100F Street NW, Washington, D.C. 20549. In addition, the SEC maintains a website at www.sec.gov that contains copies of documents that we have filed with the SEC using its EDGAR system.

I. Subsidiary Information

We have two wholly-owned subsidiaries, Mainz Biomed Germany GmbH (f/k/a PharmGenomics GmbH), and Mainz Biomed USA, Inc.

ITEM 11. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

Market Risk, Hedging and Financial Instruments

Our activities expose us to a variety of financial risks, including foreign currency risk and interest rate risk. We analyze each of these risks individually, as well as on an interconnected basis, and define strategies to manage the economic impact on our performance in line with our financial risk management policy. Management meets on a frequent basis and is responsible for reviewing the results of the risk assessment, approving recommended risk management strategies, monitoring compliance with the financial risk management policy and reporting to the Audit Committee.

Foreign Currency Risk

We are exposed to foreign currency risk on borrowings, investments, (forecasted) sales, (forecasted) purchases, royalties, licenses, management fees and interest expense/income whenever they are denominated in a currency other than the functional currency of our subsidiary engaged in the relevant transaction. To manage this risk, we primarily make use of cash deposits held in both U.S. dollars and Euro, in such amounts that match our forward budgeted expenditures.

As far as foreign currency risk on firm commitments and forecasted transactions is concerned, our policy is, when material, to hedge operational transactions which are reasonably expected to occur (e.g., cost of goods sold and selling, general and administrative expenses) within the forecast period determined in the financial risk management policy. Operational transactions that are certain may be hedged without any limitation in time. Non-operational transactions (such as acquisitions and disposals of subsidiaries) may be hedged as soon as they are certain.

As of December 31, 2021, we have substantially locked in our anticipated exposures related to firm commitments and forecasted transactions for 2022 for the most important currency pairs such as USD/Euro.

Interest Rate Risk

In the future, we may be exposed to interest rate risk on variable-rate interest-bearing financial liabilities. In such instances in the future, we will apply a dynamic interest rate hedging approach where the target mix between fixed and floating rate is reviewed periodically. The purpose of our policy is to achieve an optimal balance between cost of funding and volatility of financial results, while taking into account market conditions as well as our overall business strategy. In the future, we may enter into interest rate swap agreements and forward rate agreements to manage our interest rate risk or into cross-currency interest rate swap agreements to manage both our foreign currency risk and interest rate risk.

Interest rates have been subject to significant volatility in the recent past and may be again in the future.

Other Risks

See our audited consolidated financial statements as of December 31, 2021 and 2020, and for the three years ended December 31, 2021 and the Risk Factors section of this Form 20-F for a fuller quantitative and qualitative discussion on the credit and liquidity risks to which we are subject and our policies with respect to managing those risks.

ITEM 12. DESCRIPTION OF SECURITIES OTHER THAN EQUITY SECURITIES

Not Applicable.

PART II

ITEM 13. DEFAULTS, DIVIDEND ARREARAGES AND DELINQUENCIES

There have not been any defaults with respect to dividends, arrearages or delinquencies since incorporation.

ITEM 14. MATERIAL MODIFICATIONS TO THE RIGHTS OF SECURITY HOLDERS AND USE OF PROCEEDS

There have been no material modifications to the rights of our holders of ordinary shares since incorporation.

Use of Proceeds

On November 9, 2021, we completed an initial public offering of 2,300,000 ordinary shares. The offering was registered with the US Securities and Exchange Commission on Form F-1 (File No. 333-260176). We received approximately \$10,425,160 in net proceeds from this offering.

On January 28, 2022, we completed a public offering of 1,725,000 ordinary shares. The offering was registered with the US Securities and Exchange Commission on Form F-1 (File No. 333-262294). We received approximately \$23,529,700 in net proceeds from this offering.

As of the date of this annual report, we had approximately \$29 million of net proceeds remaining from these two offering. The proceeds that we used from these two offering were primarily used for the design and structure of our European and U.S. based clinical studies for ColoAlert, research and development, recruitment of commercial personnel, and general corporate purposes.

ITEM 15. CONTROLS AND PROCEDURES

A. Disclosure Controls and Procedures

Disclosure controls and procedures are defined in Rule 13a-15(e) and 15d-15(e) under the *Securities Exchange Act of 1934*, as amended (the "Exchange Act") to mean controls and other procedures of an issuer that are designed to ensure that information required to be disclosed by the Company in the reports that we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the SEC's rules and forms and includes, without limitation, controls and procedures designed to ensure that such information is accumulated and communicated to the issuer's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate to allow timely decisions regarding required disclosure.

As required by Rule 13a-15 or 15d-15 under the Exchange Act, we have carried out an evaluation of the effectiveness of our Company's disclosure controls and procedures as of the end of the period covered by this Annual Report on Form 20-F, being December 31, 2021. This evaluation was carried out by our Chief Executive Officer and Chief Financial Officer. Based upon that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as December 31, 2021.

B. Management's Annual Report On Internal Control Over Financial Reporting

Our management, under the supervision of our Chief Executive Officer and Chief Financial Officer, is responsible for establishing and maintaining adequate internal control over our financial reporting, as defined in Rules 13a-15(f) and 15d-15(f) of the Exchange Act of 1934, as amended. The Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Internal control over financial reporting includes policies and procedures that:

- pertain to the maintenance of records that in reasonable detail accurately and fairly reflect our transactions and asset dispositions;
- provide reasonable assurance that transactions are recorded as necessary to permit the preparation of our financial statements in accordance with generally accepted accounting principles;

- provide reasonable assurance that receipts and expenditures are made only in accordance with authorizations of our management and board of directors (as appropriate); and
- provide reasonable assurance regarding the prevention or timely detection of unauthorized acquisition, use or disposition of assets that could have a material effect on our financial statements.

Due to its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. In addition, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Under the supervision and with the participation of our management, including our Chief Executive Officer and Chief Financial Officer, we assessed the effectiveness of our internal control over financial reporting as of December 31, 2020, based on the framework for Internal Control-Integrated Framework set forth by The Committee of Sponsoring Organizations of the Treadway Commission (COSO) (2013). Based on our assessment and this framework, our management concluded that the Company's internal control over financial reporting was effective as of December 31, 2021.

C. Attestation report of the registered public accounting firm

Not applicable.

D. Changes In Internal Control Over Financial Reporting

No changes were made to our internal controls over financial reporting that occurred during the fiscal year ended December 31, 2021 that have materially affected, or are reasonably likely to materially affect, our internal controls over financial reporting.

ITEM 16. [RESERVED]

ITEM 16A. AUDIT COMMITTEE FINANCIAL EXPERT

As of the date hereof, our Audit Committee is comprised of Nicole Holden (Chair), Hans Hekland and Alberto Libanori, each of whom is independent under the listing standards regarding "independence" within the meaning of the Listing Rules of the Nasdaq Stock Market.

Our Board has determined that Nicole Holden qualifies as an audit committee financial expert pursuant to Items 16A(b) and (c) of Form 20-F.

ITEM 16B. CODE OF ETHICS

We have adopted a code of ethics which we have filed as an exhibit to amendment number 1 to our registration statement on Form F-1 (no. 333-260176) on October 26, 2021.

ITEM 16C. PRINCIPAL ACCOUNTANT FEES AND SERVICES

We have appointed BF Borgers CPA P.C. as our independent registered public accounting firm. The following table sets forth information regarding the amount billed and accrued to us by BF Borgers CPA P.C. for the fiscal year ended December 31, 2021 and 2020:

| | Period Ended December 31, | |
|---------------------|--------------------------------------|------------------|
| | 2021 | 2020 |
| Audit Fees: | \$ 45,000 | \$ 78,400 |
| Audit Related Fees: | 8,600 | 18,000 |
| Tax Fees: | - | - |
| Total: | \$ 53,600 | \$ 96,400 |

Audit Fees

This category includes the aggregate fees billed by our independent auditor for the audit of our annual financial statements, reviews of interim financial statements that are provided in connection with statutory and regulatory filings or engagements.

Audit Related Fees

This category includes the aggregate fees billed in each of the last two fiscal years for assurance and related services by the independent auditors that are reasonably related to the performance of the audits or reviews of the interim financial statements and are not reported above under "Audit Fees," and generally consist of fees for other engagements under professional auditing standards, accounting and reporting consultations.

Tax Fees

This category includes the aggregate fees billed in each of the last two fiscal years for professional services rendered by the independent auditors for tax compliance, tax planning and tax advice.

Policy on Pre-Approval by Audit Committee of Services Performed by Independent Auditors

The policy of our Audit Committee is to pre-approve all audit and permissible non-audit services to be performed by our independent auditors during the fiscal year.

ITEM 16D. EXEMPTIONS FROM THE LISTING STANDARDS FOR AUDIT COMMITTEES

Not Applicable.

ITEM 16E. PURCHASES OF EQUITY SECURITIES BY THE ISSUER AND AFFILIATED PURCHASERS

None.

ITEM 16F. CHANGE IN REGISTRANT'S CERTIFYING ACCOUNTANT

None.

ITEM 16G. CORPORATE GOVERNANCE

Not Applicable

ITEM 16H. MINE SAFETY DISCLOSURE

Not Applicable.

ITEM 16I. DISCLOSURE REGARDING FOREIGN JURISDICTIONS THAT PREVENT INSPECTIONS

Not Applicable

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PART III**ITEM 17. FINANCIAL STATEMENTS**

Not Applicable.

ITEM 18. FINANCIAL STATEMENTS

Our financial statements were prepared in accordance with IFRS, as issued by the IASB.

Report of Independent Registered Public Accounting Firm (PCAOB ID 5041) and Financial statements filed as part of this Annual Report:

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Report of Independent Registered Public Accounting Firm

To the shareholders and the board of directors of Mainz Biomed N.V.

Opinion on the Financial Statements

We have audited the accompanying consolidated statements of financial position of Mainz Biomed N.V. (the "Company"), as of December 31, 2021 and 2020, the related consolidated statements of comprehensive loss, changes in shareholders' equity (deficit) and cash flows for the years then ended, and related notes (collectively referred to as the "financial statements"). In our opinion, the financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2021, in conformity with the International Financial Reporting Standards as issued by the International Accounting Standards Board.

Basis for Opinion

These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on the Company's financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) ("PCAOB") and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether due to error or fraud. The Company is not required to have, nor were we engaged to perform, an audit of its internal control over financial reporting. As part of our audit, we are required to obtain an understanding of internal control over financial reporting but not for the purpose of expressing an opinion on the effectiveness of the Company's internal control over financial reporting. Accordingly, we express no such opinion.

Our audit included performing procedures to assess the risks of material misstatement of the financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the financial statements. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the financial statements. We believe that our audit provides a reasonable basis for our opinion.

/s/ **BF Borgers CPA PC**
Served as Auditor since 2021
Lakewood, CO
May 2, 2022

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(Expressed in US Dollars).

| | <u>Note</u> | <u>December 31, 2021</u> | <u>December 31, 2020</u> |
|---|-------------|------------------------------|------------------------------|
| ASSETS | | | |
| Current Assets | | | |
| Cash | | \$ 8,727,542 | \$ 122,568 |
| Trade and other receivables, net | 5 | 17,757 | 44,241 |
| Prepaid expenses | 6 | 863,910 | 19,589 |
| Total Current Assets | | 9,609,209 | 186,398 |
| Property and equipment, net | 7 | 37,884 | 30,337 |
| Right-of-use asset | 8 | 393,702 | 456,535 |
| Total assets | | \$ 10,040,795 | \$ 673,270 |
| LIABILITIES AND SHAREHOLDERS' EQUITY (DEFICIT) | | | |
| Current Liabilities | | | |
| Accounts payable and accrued liabilities | 9 | \$ 784,786 | \$ 399,137 |
| Accrued management salaries payable | 15 | 233,710 | 33,347 |
| Accounts payable – related party | 15 | 84,750 | 2,837 |
| Convertible debt - related party | 10 | 77,887 | 86,189 |
| Loans payable | 11 | 22,754 | 24,527 |
| Loans payable - related party | 11 | 92,792 | 108,306 |
| Lease liabilities | 8 | 55,076 | 47,611 |
| Total current liabilities | | 1,351,755 | 701,954 |
| Convertible debt | 10 | - | 409,660 |
| Convertible debt - related party | 10 | - | 37,521 |
| Silent partnerships | 12 | 1,463,981 | 1,319,769 |
| Silent partnerships - related party | 12 | 476,138 | 498,481 |
| Lease liabilities | 8 | 387,766 | 447,440 |
| Total Liabilities | | 3,679,640 | 3,414,825 |
| Shareholder's equity (deficit) | | | |
| Share capital | 13 | 141,075 | 64,265 |
| Share premium | 13 | 13,126,493 | 41,846 |
| Reserve | 13 | 9,736,066 | 2,309,684 |
| Accumulated deficit | | (16,644,958) | (4,954,860) |
| Accumulated other comprehensive income (loss) | | 2,479 | (202,490) |
| Total shareholders' equity (deficit) | | 6,361,155 | (2,741,555) |
| Total liabilities and shareholders' equity (deficit) | | \$ 10,040,795 | \$ 673,270 |
| Nature of operations and going concern (Note 1) | | | |
| Subsequent events (Note 21) | | | |

The accompanying notes are an integral part of these consolidated financial statements.

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Mainz Biomed N.V.
Consolidated Statements of Comprehensive Loss
(Expressed in US Dollars)

| | <u>Note</u> | <u>Years ended December 31,</u> | | |
|---|-------------|-------------------------------------|----------------|-----------------|
| | | <u>2021</u> | <u>2020</u> | <u>2019</u> |
| Revenue | | \$ 577,348 | \$ 493,565 | \$ 281,393 |
| Cost of revenue | 14 | 399,726 | 370,480 | 342,664 |
| Gross profit (loss) | | <u>177,622</u> | <u>123,085</u> | <u>(61,271)</u> |
| Operating expenses: | | | | |
| General and administrative | 20 | 8,478,017 | 374,569 | 428,862 |
| Sales and marketing | 20 | 957,522 | 110,380 | 181,460 |
| Research and development | 20 | 466,689 | 311,851 | 250,316 |
| Total operating expenses | | <u>9,902,228</u> | <u>796,800</u> | <u>860,638</u> |
| Loss from operations | | (9,724,606) | (673,715) | (921,909) |
| Finance expense | | | | |
| Accretion expense | 10, 11, 12 | (139,974) | (92,375) | (45,069) |
| Government grant – research and development | 16 | 298,997 | 224,134 | 151,015 |
| Government grant – below market financing | 12 | 51,410 | 92,774 | - |
| Interest expense | | (199,197) | (176,417) | (156,867) |
| Gain on debt extinguishment | | - | 8,214 | - |

| | | | | |
|--|---|------------------------|---------------------|---------------------|
| Other income | | 43,011 | 30,490 | 15,775 |
| Acquisition expense | 4 | (2,019,739) | - | - |
| Total other income (expenses) | | <u>(1,965,492)</u> | <u>86,820</u> | <u>(35,146)</u> |
| Income before income tax | | (11,690,098) | (586,895) | (957,055) |
| Income taxes provision | | - | - | - |
| Net loss | | <u>\$ (11,690,098)</u> | <u>\$ (586,895)</u> | <u>\$ (957,055)</u> |
| Foreign currency translation | | 204,969 | (224,656) | 22,166 |
| Comprehensive loss | | <u>\$ (11,485,129)</u> | <u>\$ (811,551)</u> | <u>\$ (934,889)</u> |
| Basic and dilutive loss per ordinary share | | <u>\$ (1.62)</u> | <u>\$ (0.10)</u> | <u>\$ (0.17)</u> |
| Weighted average number of ordinary shares outstanding | | <u>7,210,889</u> | <u>5,607,243</u> | <u>5,607,243</u> |

The accompanying notes are an integral part of these consolidated financial statements.

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Mainz Biomed N.V.
Consolidated Statement of Changes in Shareholders' Equity (Deficit)
(Expressed in US Dollars)

| | Note | Number of shares | Share Capital | Share Premium | Reserve | Accumulated Deficit | Accumulated Other comprehensive Income (loss) | Total Shareholders' Equity (Deficit) |
|---|--------|-------------------|-------------------|----------------------|---------------------|------------------------|---|--------------------------------------|
| Balance, January 1, 2019 | | 5,607,243 | \$ 64,265 | \$ 41,846 | \$ 2,198,084 | \$ (3,410,910) | \$ - | \$ (1,106,715) |
| Debt conversion feature | | - | - | - | 91,308 | - | - | 91,308 |
| Net loss | | - | - | - | - | (957,055) | - | (957,055) |
| Currency translation | | - | - | - | - | - | 22,166 | 22,166 |
| Balance, December 31, 2019 | | 5,607,243 | \$ 64,265 | \$ 41,846 | \$ 2,289,392 | \$ (4,367,965) | \$ 22,166 | \$ (1,950,296) |
| Debt conversion feature | 10, 12 | - | - | - | 20,292 | - | - | 20,292 |
| Net loss | | - | - | - | - | (586,895) | - | (586,895) |
| Currency translation | | - | - | - | - | - | (224,656) | (224,656) |
| Balance, December 31, 2020 | | 5,607,243 | \$ 64,265 | \$ 41,846 | \$ 2,309,684 | \$ (4,954,860) | \$ (202,490) | \$ (2,741,555) |
| Issue of ordinary shares for conversion of debt | 10, 13 | 392,757 | 4,784 | 3,115 | 507,973 | - | - | 515,872 |
| Recapitalization transaction | 4 | 3,710,001 | 45,380 | 3,154,315 | 16,954 | - | - | 3,216,649 |
| Sale of ordinary shares and warrants | 13 | 2,300,000 | 26,646 | 9,927,217 | 471,297 | - | - | 10,425,160 |
| Stock options granted | 13 | - | - | - | 6,430,158 | - | - | 6,430,158 |
| Net loss | | - | - | - | - | (11,690,098) | - | (11,690,098) |
| Currency translation | | - | - | - | - | - | 204,969 | 204,969 |
| Balance, December 31, 2021 | | <u>12,010,001</u> | <u>\$ 141,075</u> | <u>\$ 13,126,493</u> | <u>\$ 9,736,066</u> | <u>\$ (16,644,958)</u> | <u>\$ 2,479</u> | <u>\$ 6,361,155</u> |

The accompanying notes are an integral part of these consolidated financial statements.

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Mainz Biomed N.V.
Consolidated Statements of Cash Flows
(Expressed in US Dollars)

| | | Years ended December 31, | | |
|---|------------|-----------------------------|-------------------|-------------------|
| | Note | 2021 | 2020 | 2019 |
| Cash Flows From Operating Activities | | | | |
| Net loss | | \$ (11,690,098) | \$ (586,895) | \$ (957,055) |
| Adjustments to reconcile net loss to net cash used in operating activities: | | | | |
| Stock based compensation | 13 | 6,430,158 | - | - |
| Depreciation and amortization | 7 | 69,929 | 60,462 | 53,042 |
| Bad debt expense | | - | 506 | 19,411 |
| Accretion expense | 10, 11, 12 | 139,974 | 92,375 | 45,069 |
| Government grant | 12 | (51,410) | (92,774) | - |
| Acquisition expense | 4 | 2,019,739 | - | - |
| Changes in operating assets and liabilities: | | | | |
| Trade and other receivables | | 24,215 | (99,152) | 339,624 |
| Prepaid expenses and other assets | | (833,556) | (2,510) | 111 |
| Accounts payable and accrued liabilities | | 670,725 | 160,476 | 87,419 |
| Deferred revenue | | - | (1,225) | (4,116) |
| Net cash used in operating activities | | <u>(3,220,324)</u> | <u>(468,737)</u> | <u>(416,495)</u> |
| CASH FLOWS FROM INVESTING ACTIVITIES | | | | |
| Reverse acquisition – cash on hand at closing | 4 | 1,219,856 | - | - |
| Purchase of property and equipment | 7 | <u>(16,705)</u> | <u>(9,685)</u> | <u>-</u> |
| Net cash provided by (used in) Investing Activities | | <u>1,203,151</u> | <u>(9,685)</u> | <u>-</u> |
| Cash Flows From Financing Activities | | | | |
| Sale of ordinary shares | 13 | 10,425,160 | - | - |
| Proceeds from the conversion of debt | 10, 13 | 7,673 | - | - |
| Proceeds from convertible debt | | - | 11,414 | 450,143 |
| Proceeds from loans payable | 11 | 2,305 | 25,334 | 4,265 |
| Proceeds from silent partnerships | 12 | 236,636 | 398,811 | - |
| Repayment of loans payable | 11 | (11,832) | - | - |
| Repayment of lease obligations | 8 | (49,408) | (38,878) | (30,413) |
| Net cash provided by financing activities | | <u>10,610,534</u> | <u>396,681</u> | <u>423,995</u> |
| Effect of movements in exchange rates | | 11,613 | 721 | (33,442) |
| Net change in cash | | 8,604,974 | (81,741) | 7,500 |
| Cash at beginning of period | | <u>122,568</u> | <u>203,588</u> | <u>229,530</u> |
| Cash at end of period | | <u>\$ 8,727,542</u> | <u>\$ 122,568</u> | <u>\$ 203,588</u> |
| Non Cash Investing And Financing Activities | | | | |
| Interest paid | | <u>\$ 46,240</u> | <u>\$ 23,522</u> | <u>\$ 156,867</u> |
| Right of use asset additions | | <u>\$ 32,353</u> | <u>\$ 12,120</u> | <u>\$ -</u> |
| Issuance of common stock for share exchange | | <u>\$ 3,216,649</u> | <u>\$ -</u> | <u>\$ -</u> |
| Issuance of common stock for conversion of debt and accrued interest | | <u>\$ 508,237</u> | <u>\$ -</u> | <u>\$ -</u> |

The accompanying notes are an integral part of these consolidated financial statements.

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Mainz Biomed N.V.
Notes to the Consolidated Financial Statements
(Expressed in US dollars)
December 31, 2021, 2020 and 2019

1. NATURE OF OPERATIONS AND GOING CONCERN

Mainz Biomed N.V. (the "Company") is domiciled in Netherlands. The Company's registered office is at Keizersgracht 391A, EJ Amsterdam. The Company was formed to acquire the business of Mainz Biomed Germany GmbH (f/k/a PharmGenomics GmbH ("PharmGenomics", "PG")). In September 2021, the Company completed a Contribution Agreement to effect such acquisition (see Note 7).

We develop and sell in-vitro diagnostic ("IVD") tests, primarily our flagship ColoAlert product in European markets and research use only tests for clinical diagnostics in the area of human genetics, focusing in the areas of personalized medicine. We additionally operate a clinical diagnostic laboratory. We develop and distribute our IVD kits to third-party laboratories and through our on-line store.

Throughout these consolidated financials statements, Mainz Biomed N.V. and its wholly owned subsidiaries, Mainz Biomed USA, Inc. and Mainz Biomed GmbH (f/k/a PharmGenomics GmbH), are referred to, collectively and individually as "Mainz", "Mainz Biomed", or the "Company".

Share Exchange

On August 3, 2021, the Company entered into a contribution agreement (the "Contribution Agreement") between Mainz Biomed B.V. ("Mainz"), which was a private company with limited liability under Dutch law incorporated for the purpose of acquiring PharmGenomics. Under the Contribution Agreement, 100% of the shares of PharmGenomics were acquired in exchange for 6,000,000 shares of Mainz. Upon the closing of the Contribution Agreement, PharmGenomics became a wholly owned subsidiary of Mainz and the former shareholders of PharmGenomics held approximately 62% of the outstanding shares of Mainz prior to the Company's initial public offering. On September 20, 2021 PharmGenomics and Mainz closed the Contribution Agreement. In November 2021, Mainz completed its initial public offering of its ordinary shares on the Nasdaq market, selling 2,300,000 shares at \$5.00 per share.

Going Concern

The Company has recurring losses, accumulated deficit totaling \$16,644,958 and negative cash flows used in operating activities of \$3,220,324 as of and for the year ended December 31, 2021. The Company has sufficient cash on hand, including from the ordinary share offering it completed in January 2022, to cover its current liabilities and the estimated cash to be used in operations based for the next twelve months. As a result of the actions noted above, management believes that it will have sufficient working capital to meet its planned operating cash flow requirements.

These financial statements have been prepared on a going concern basis, which contemplates the realization of assets and the settlement of liabilities in the normal course of business. These financial statements do not reflect the adjustments to the carrying values of assets and liabilities, the reported revenues and expenses, and the statement of financial position classifications used, that would be necessary if the Company were unable to realize its assets and settle its liabilities as a going concern in the normal course of operations. Such adjustments could be material.

COVID-19 Impact

On March 11, 2020, the outbreak of the novel strain of coronavirus specifically identified as "COVID-19" was declared a pandemic by the World Health Organization. The outbreak has resulted in governments worldwide enacting emergency measures to combat the spread of the virus which in turn have caused material disruption to business globally. Global equity markets have experienced significant volatility and weakness. Governments and central banks have reacted with significant monetary and fiscal interventions designed to stabilize economic conditions. The duration and impact of the COVID-19 outbreak is unknown at this time, as is the efficacy of the government and central bank interventions. It is not possible to reliably estimate the length and severity of these developments and the impact on the financial results and condition of the Company in future periods.

2. BASIS OF PRESENTATION

Basis of Presentation and Statement of Compliance

These financial statements have been prepared in accordance with International Financial Reporting Standards ("IFRS") as issued by the International Accounting Standards Board ("IASB") and interpretations of the International Financial Reporting Issues Committee ("IFRIC"). The principal accounting policies applied in the preparation of these financial statements are set out below. These policies have been consistently applied to all years presented, unless otherwise stated.

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These financial statements have been prepared on a historical cost basis, modified where applicable. In addition, these financial statements have been prepared using the accrual basis of accounting except for cash flow information. They were authorized for issue by the Company's board of directors on May 2, 2022.

New Accounting Standards

Classification of Liabilities as Current or Non-current (Amendment to IAS 1)

1. Liabilities are classified as non-current if the entity has a substantive right to defer settlement for at least 12 months at the end of the reporting period. The amendment no longer refers to unconditional rights. The assessment determines whether a right exists, but it does not consider whether the entity will exercise the right.
2. 'Settlement' is defined as the extinguishment of a liability with cash, other economic resources or an entity's own equity instruments. There is an exception for convertible instruments that might be converted into equity, but only for those instruments where the conversion option is classified as an equity instrument as a separate component of a compound financial instrument.
3. The amendment should be applied retrospectively for annual periods beginning on or after January 1, 2023. Earlier application is permitted.

The Company is currently evaluating the impact the new standard will have on its financial statements.

3. SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES AND USE OF ESTIMATES AND JUDGMENTS

Property and Equipment

Property and equipment are recorded at cost less accumulated depreciation. Expenditures that extend the life of the asset are capitalized and depreciated. Depreciation is recorded using the straight-line method over the estimated useful lives of the assets. Management evaluates the useful lives and method of depreciation at least annually and accounts for any changes to the useful life or method prospectively. Maintenance and repairs are charged to expense as incurred; cost of major additions and betterments are capitalized.

The estimated useful lives are:

| | |
|----------------------|--------------|
| Laboratory equipment | 5 – 10 years |
| Office equipment | 3 – 10 years |
| Right-of-use assets | Lease terms |

Impairment of Non-Financial Assets

The Company performs impairment tests on its long-lived assets, including property and equipment when new events or circumstances occur, or when new information becomes available relating to their recoverability. When the recoverable amount of each separately identifiable asset or cash generating unit ("CGU") is less than its carrying value, the asset or CGU's assets are written down to their recoverable amount with the impairment loss charged against profit or loss. A reversal of the impairment loss in a subsequent period will be charged against profit or loss if there is a significant reversal of the circumstances that caused the original impairment. The impairment will be reversed up to the amount of depreciated carrying value that would have otherwise occurred if the impairment loss had not occurred.

The CGU's recoverable amount is evaluated using fair value less costs to sell calculations. In calculating the recoverable amount, the Company utilizes discounted cash flow techniques to determine fair value when it is not possible to determine fair value from active markets or a written offer to purchase. Management calculates the discounted cash flows based upon its best estimate of a number of economic, operating, engineering, environmental, political and social assumptions. Any changes in the assumptions due to changing circumstances may affect the calculation of the recoverable amount.

Leases

The Company assesses at contract inception whether a contract is, or contains, a lease. That is, if the contract conveys the right to control the use of an identified asset for a period of time in exchange for consideration, the Company has the right to obtain substantially all of the economic benefits from the use of the asset through the specified period, and the Company has the right to direct the use of the specified assets, which involves the right to make the decisions that are most relevant to its use. The Company applies a

single recognition and measurement approach for all leases, except for short-term leases and leases of low-value assets, which are recognized in profit or loss as the expense is incurred.

At the commencement date of the lease, the Company recognizes lease liabilities measured at the present value of lease payments to be made over the lease term. Lease payments include fixed payments (including in-substance fixed payments) less any lease incentives receivable, variable lease payments that depend on an index or a rate, and amounts expected to be paid under residual value guarantees. Lease payments also include the exercise price of a purchase option reasonably certain to be exercised by the Company and payments of penalties for terminating the lease, if the lease term reflects the Company exercising the option to terminate. Variable lease payments that do not depend on an index or a rate are recognized as expenses in the period in which the event or condition that triggers the payment occurs. In calculating the present value of lease payments, the Company uses the rate implicit in the lease, or if not readily determinable, its incremental borrowing rate ("IBR"). After the commencement date, the amount of lease liabilities is increased to reflect the accretion of interest and reduced for the lease payments made. In addition, the carrying amount of lease liabilities is remeasured if there is a modification, a change in the lease term, a change in the lease payments (e.g., changes to future payments resulting from a change in an index or rate used to determine such lease payments) or a change in the assessment of an option to purchase the underlying asset. Upon a remeasurement of a lease liability, the Company records a proportionate adjustment to the corresponding right-of-use asset. If the remeasurement results in a reduction of the right-of-use asset to nil, the difference is recorded in the statements of profit or loss in the period of occurrence.

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The Company recognizes right-of-use assets at the commencement date of the lease (i.e., the date the underlying asset is available for use). Right-of-use assets are measured at cost, less any accumulated depreciation and impairment losses, and adjusted for any remeasurement of lease liabilities. The cost of right-of-use assets includes the amount of lease liabilities recognized, initial direct costs incurred, and lease payments made at or before the commencement date less any lease incentives received. Right-of-use assets are depreciated on a straight-line basis over the shorter of the lease term and the estimated useful lives of the assets.

Convertible Debt

Convertible loans are bifurcated into a debt component and a conversion right if the latter is an equity instrument. The conversion right of a convertible loan is not an equity instrument but a liability if some conversion features of the loan lead to a conversion into a variable number of shares. In this case it has to be assessed if embedded derivatives need to be separated from the host contract. If this is the case, the remaining host contract is measured at amortized cost and the separated embedded derivative is measured at fair value through profit or loss until the loan is converted into equity or becomes due for repayment. The conversion features and other repayment options provided for in the contract are identified as a combined embedded derivative if they share the same risk exposure and are interdependent.

Revenue Recognition

The Company's revenue is primarily derived through providing genetic diagnostic tests to customers. The Company recognizes revenue in accordance with IFRS 15 - "Revenue from Contracts with Customers".

In accordance with IFRS 15, revenue is recognized upon the satisfaction of performance obligations. Performance obligations are satisfied at the point at which control of the promised goods or services are transferred to customers, in an amount that reflects the consideration the Company expects to be entitled to receive for those goods and services.

The Company provides a genetic diagnostic testing service and testing kits which are not considered separately identifiable from each other as the Company uses the testing kits to collect samples in order to deliver the diagnostic test results to the customer. Accordingly, the Company has one performance obligation which is fulfilled upon the delivery of the test results to the customer and revenue is recognized at that point in time.

Research and Development

Expenditure on research activities, undertaken with the prospect of gaining new technical knowledge and understanding, is recognized in profit or loss as incurred.

Development activities involve a plan or design for the production of new or substantially improved products and processes. Development expenditure is capitalized only if development costs can be measured reliably, the product or process is technically and commercially feasible, future economic benefits are probable, and the Company intends to and has sufficient resources to complete development and to use or sell the asset. The expenditure capitalized includes the cost of materials, direct labor, overhead costs that are directly attributable to preparing the asset for its intended use, and borrowing costs on qualifying assets. Other development expenditures are recognized in profit or loss as incurred.

Research and development costs incurred subsequent to the acquisition of externally acquired intangible assets and on internally generated intangible assets are accounted for as research and development costs.

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Financial Instruments

a) Classification

The Company classifies its financial instruments in the following categories: at fair value through profit and loss ("FVTPL"), at fair value through other comprehensive income (loss) ("FVTOCI") or at amortized cost. The Company determines the classification of financial assets at initial recognition. The classification of debt instruments is driven by the Company's business model for managing the financial assets and their contractual cash flow characteristics. Equity instruments that are held for trading are classified as FVTPL. For other equity instruments, on the day of acquisition the Company can make an irrevocable election (on an instrument-by-instrument basis) to designate them as at FVTOCI. Financial liabilities are measured at amortized cost, unless they are required to be measured at FVTPL (such as instruments held for trading or derivatives) or if the Company has opted to measure them at FVTPL.

b) Measurement

Financial assets and liabilities at amortized cost

Financial assets and liabilities at amortized cost are initially recognized at fair value plus or minus transaction costs, respectively, and subsequently carried at amortized cost less any impairment. The Company's financial assets measured at amortized cost are comprised of its cash and trade and other receivables, net. The Company's financial liabilities measured at amortized cost are comprised of its accounts payable and accrued liabilities, loans payable, loans payable – related party, convertible debt, convertible debt – related parties, silent partnerships, silent partnerships – related party and lease liabilities.

Financial assets and liabilities at FVTPL

Financial assets and liabilities carried at FVTPL are initially recorded at fair value and transaction costs are expensed in the statements of loss and comprehensive loss. Realized and unrealized gains and losses arising from changes in the fair value of the financial assets and liabilities held at FVTPL are included in the statements of loss and comprehensive loss in the period in which they arise.

Debt instruments at FVTOCI

These assets are initially measured at fair value. Interest income calculated using the effective interest method, foreign exchange gains and losses and impairment are recognized in profit or loss. Other net gains and losses associated with changes in fair value are recognized in OCI. On derecognition, gains and losses accumulated in OCI are reclassified to profit or loss. The Company does not hold any debt instruments at FVTOCI.

Equity instruments at FVTOCI

These assets are initially measured at fair value. Dividends are recognized as income in profit or loss unless the dividend clearly represents a recovery of part of the cost of the investment. Other net gains and losses associated with changes in fair value are recognized in OCI and are never reclassified to profit or loss. The Company does not hold any equity instruments at FVTOCI.

c) Impairment of financial assets at amortized cost

The Company recognizes a loss allowance for expected credit losses on financial assets that are measured at amortized cost. At each reporting date, the Company measures the loss allowance for the financial asset at an amount equal to the lifetime expected credit losses if the credit risk on the financial asset has increased significantly since initial recognition. If at the reporting date, the financial asset has not increased significantly since initial recognition, the Company measures the loss allowance for the financial asset at an amount equal to the twelve month expected credit losses. The Company shall recognize in the statements of loss and comprehensive loss, as an impairment gain or loss, the amount of expected credit losses (or reversal) that is required to adjust the loss allowance at the reporting date to the amount that is required to be recognized.

d) Derecognition

Financial assets

The Company derecognizes financial assets only when the contractual rights to cash flows from the financial assets expire, or when it transfers the financial assets and substantially all of the associated risks and rewards of ownership to another entity.

Financial liabilities

The Company derecognizes a financial liability when its contractual obligations are discharged or cancelled or expire. The Company also derecognizes a financial liability when the terms of the liability are modified such that the terms and/or cash flows of the modified instrument are substantially different, in which case a new financial liability based on the modified terms is recognized at fair value.

Gains and losses on derecognition are generally recognized in profit or loss.

Foreign Currency Translation

The functional currency is determined using the currency of the primary economic environment in which that entity operates. The functional currency, as determined by management, of the Company is the Euro (EUR).

Foreign currency transactions are translated into functional currency using the exchange rates prevailing at the date of the transaction. Foreign currency monetary items are translated at the period-end exchange rate. Non-monetary items measured at historical cost continue to be carried at the exchange rate at the date of the transaction. Non-monetary items measured at fair value are reported at the exchange rate at the date when fair values were determined.

Exchange differences arising on the translation of monetary items or on settlement of monetary items are recognized in the statement of comprehensive loss in the period in which they arise, except where deferred in equity as a qualifying cash flow or net investment hedge.

Exchange differences arising on the translation of non-monetary items are recognized in other comprehensive income to the extent that gains and losses arising on those non-monetary items are also recognized in other comprehensive income. Where the non-monetary gain or loss is recognized in profit or loss, the exchange component is also recognized in profit or loss.

The Company's presentation currency is the US dollar. For presentation purposes, all amounts are translated from the Euro functional currency to the US dollar presentation currency for each period using the exchange rate at the end of each reporting period for the statement of financial position. Revenues and expenses are translated on the basis of average exchange rates during the year.

Exchange gains and losses arising from translation to the Company's presentation currency are recorded as exchange differences on translation to reporting currency, which is included in other comprehensive income (loss).

Income Taxes

Current income tax:

Current income tax assets and liabilities for the current period are measured at the amount expected to be recovered from or paid to taxation authorities. The tax rates and tax laws used to compute the amount are those that are enacted or substantively enacted, at the reporting date, in the countries where the Company operates and generates taxable income.

Current income tax relating to items recognized directly in other comprehensive income or equity is recognized in other comprehensive income or equity and not in profit or loss. Management periodically evaluates positions taken in the tax returns with respect to situations in which applicable tax regulations are subject to interpretation and establishes provisions where appropriate.

Deferred tax:

Deferred tax is recognized on temporary differences at the reporting date arising between the tax bases of assets and liabilities and their carrying amounts for financial reporting purposes.

The carrying amount of deferred tax assets is reviewed at the end of each reporting period and recognized only to the extent that it is probable that future taxable income will be available to allow all or part of the temporary differences to be utilized.

Deferred tax assets and liabilities are measured at the tax rates that are expected to apply to the year when the asset is realized or the liability is settled, based on tax rates (and tax laws) that have been enacted or substantively enacted and are expected to apply by the end of the reporting period. Deferred tax assets and deferred income tax liabilities are offset if a legally enforceable right exists to set off current tax assets against current income tax liabilities and the deferred taxes relate to the same taxable entity and the same taxation authority.

Government Grants

Government grants are recognized when there is reasonable assurance that the grant will be received and that the Company will comply with the conditions attached to them. When the grant relates to an expense item, it is recognized as income on a systematic basis over the periods that the related costs, for which it is intended to compensate, are expensed. When the grant relates to an asset, it is recognized as income in equal amounts over the expected useful life of the related asset.

Loans received from government grants are recognized initially at fair value, with the difference between the fair value of the loan based on prevailing market interest rates and the amount received recorded as a government grant gain in the statements of loss and comprehensive loss.

Share-Based Compensation

Our stock option grants may contain time based or market-based vesting provisions. Time based options are expensed on a straight-line basis over the vesting period. Market based options ("MBOs") are expensed on a straight-line basis over the derived service period, even if the market condition is not achieved.

The fair value of the stock options is determined on the grant date and is affected by our stock price and other assumptions regarding a number of complex and subjective variables. These variables include our expected stock price volatility over the term of the awards, risk free interest rates, expected dividends, and the expected option exercise term. The Company estimates the fair value of time-based stock options using the Black-Scholes-Merton pricing model. The simplified method is used to estimate the expected term of stock options due to a lack of related historical data regarding exercise, cancellation, and forfeiture. For MBOs, the fair value is estimated using Monte Carlo simulation techniques.

Where an equity-settled award is cancelled, it is treated as if it vested on the date of the cancellation and any expense not yet recognized for the award (being the total expense as calculated at the grant date) is recognized immediately. This includes any awards where vesting conditions within the control of either the Company or the employee are not met. However, if a new award is substituted for the cancelled award and designated as a replacement award on the date that it is granted, the cancelled award and new awards are treated as if they were a modification of the original awards.

Loss per Share

Basic loss per share is calculated by dividing the loss attributable to common shareholders by the weighted average number of common shares outstanding in the period. For all periods presented, the loss attributable to common shareholders equals the reported loss attributable to owners of the Company. As the Company has recorded net losses from operations in all periods presented, it has excluded stock options and warrants from the Loss per Share calculation as the exercise of such would be anti-dilutive.

Segment Report

The Company operates in one operating segment, genetic diagnostic testing.

Critical Accounting Estimates and Significant Management Judgments

The preparation of financial statements in accordance with IFRS requires the Company to use judgment in applying its accounting policies and make estimates and assumptions about reported amounts at the date of the financial statements and in the future. The Company's management reviews these estimates and underlying assumptions on an ongoing basis, based on experience and other factors, including expectations of future events that are believed to be reasonable under the circumstances. Revisions to estimates are adjusted for prospectively in the period in which the estimates are revised.

Useful lives of property and equipment

Estimates of the useful lives of property and equipment are based on the period over which the assets are expected to be available for use. The estimated useful lives are reviewed annually and are updated if expectations differ from previous estimates due to physical wear and tear, technical or commercial obsolescence, not electing to exercise renewal options on Leases, and legal or other limits on the use of the relevant assets. In addition, the estimation of the useful lives of the relevant assets may be based on internal technical evaluation and experience with similar assets. It is possible, however, that future results of operations could be materially affected by changes in the estimates brought about by changes in the factors mentioned above. The amounts and timing of recorded expenses for any period would be affected by changes in these factors and circumstances. A reduction in the estimated useful lives of the property and equipment would increase the recorded expenses and decrease the non-current assets.

Provision for expected credit losses on trade receivables

The provision for expected credit losses on trade receivables are estimated based on historical information, customer concentrations, customer solvency, current economic and geographical trends, and changes in customer payment terms and practices. The Company will calibrate its provision matrix to adjust the historical credit loss experience with forward-looking information. The assessment of the correlation between historical observed default rates, forecast economic conditions and expected credit losses is a significant estimate. The amount of expected credit losses is sensitive to changes in circumstances and of forecast economic conditions. The Company's historical credit loss experience and forecast of economic conditions may also not be representative of customer's actual default in the future.

Estimating the incremental borrowing rate on leases

The Company cannot readily determine the interest rate implicit in leases where it is the lessee. As such, it uses its incremental borrowing rate ("IBR") to measure lease liabilities. The IBR is the rate of interest that the Company would have to pay to borrow over a similar term, and with a similar security, the funds necessary to obtain an asset of comparable value to the right-of-use asset in a similar economic environment. IBR therefore reflects what the Company "would have to pay", which requires estimation when no observable rates are available or where the applicable rates need to be adjusted to reflect the terms and conditions of the lease. The Company estimates the IBR using observable inputs (such as market interest rates) when available and is required to make certain entity-specific estimates.

Estimating the fair value of share-based payment transactions

The Company utilizes a Black-Scholes model, or where appropriate, a Monte-Carlo Simulation to estimate the fair value of its share-based payments. In applying these models, management must estimate the expected future volatility of the Company's estimated share price, and makes such assumptions based on a proxy of publicly-listed entities under an expectation that historical volatility is representative of the expected future volatility. Additionally, estimates have been made by management, in respect of the performance warrants, regarding the length of the vesting period as well as the number of performance warrants that are likely to vest.

Estimating the fair value of financial instruments

When the Company recognizes a financial instrument, where there is no active market for such instrument, the Company utilizes alternative valuation methods. The Company utilizes inputs from observable markets to the extent that an appropriate market can be identified, but when there is a lack of such a market, the Company applies judgment to determine a fair value. Such judgments require those such as risk and volatility, of which changes in such assumptions may impact the fair value of the financial instrument.

Other significant judgments

The preparation of these financial statements in accordance with IFRS requires the Company to make judgments, apart from those involving estimates, in applying accounting policies. The most significant judgments in applying the Company's financial statements include:

- The assessment of the Company's ability to continue as a going concern and whether there are events or conditions that may give rise to significant uncertainty;
- The determination of the lease term of contracts with renewal and termination options;
- Determination of the extent to which it is probable that future taxable income will be available to allow all or part of the temporary differences to be utilized;
- Whether there are indicators of impairment of the Company's long-lived assets.
- Mainz Biomed N.V. did not constitute a business at the time of the contribution agreement (see Note 4); and
- Development costs do not meet the conditions for capitalization in accordance with IAS 38 and therefore all research and development costs have been expensed as incurred.

4. CONTRIBUTION AGREEMENT

On August 3, 2021, Mainz Biomed N.V. (f/k/a Mainz Biomed B.V.) and Mainz Biomed Germany GmbH (f/k/a Pharmgenomics GmbH ("PG")) entered into Contribution Agreement for the purpose of the Mainz Biomed N.V. acquiring PG. Under the Contribution Agreement, 100% of the shares of PG were acquired in exchange for 6,000,000 shares of the Company. Upon the closing of the Contribution Agreement, PG became a wholly owned subsidiary of the Company with the former shareholders of PG holding approximately 62% of the outstanding shares of the Company, after the Contribution Agreement closing. On September 20, 2021 the Mainz Biomed N.V. and PG closed the Contribution Agreement.

For accounting purposes, the acquisition was considered to be a reverse acquisition under IFRS 3 Business Combinations ("IFRS 3") as the shareholders of PG obtained control of the Company. However, as Mainz Biomed N.V. did not, prior to the Contribution Agreement, meet the definition of a business as defined by IFRS 3, it has been accounted for as a share-based payment transaction in accordance with IFRS 2. The accounting for this transaction resulted in the following:

1. The consolidated financial statements of the combined entity are considered a continuation of the financial statements of the legal subsidiary, PG.
2. As PG was deemed to be the acquirer for accounting purposes, its assets and liabilities were included in the consolidated financial statements at their historical carrying values.
3. Since the shares allocated to the former shareholders of PG on closing of the Contribution Agreement were considered within the scope of IFRS 2, and there were not specifically identified goods or service received in return for the issuance of the shares, the value in excess of the net identifiable assets (net of liabilities acquired) of Mainz Biomed, N.V. acquired on closing was expensed in the consolidated statement of loss and comprehensive loss as an Acquisition Expense. The fair value of the 6,000,000 common shares for all of the outstanding shares of PG was determined to be \$3,216,649 or \$0.54 per common share.

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4. The fair value of all the consideration given and charged to acquisition expense was comprised of

| | | |
|---|----|-----------|
| Fair value of common stock at share exchange date | \$ | 3,216,649 |
| Identifiable assets acquired at September 20, 2021 | | |
| Cash | | 1,219,855 |
| VAT receivable | | 12,497 |
| Accounts payable | | (35,443) |
| | \$ | 1,196,910 |
| Unidentified assets acquired | | |
| Acquisition expense | \$ | 2,019,739 |
| Total net identifiable assets and transaction costs | \$ | 3,216,649 |

5. TRADE AND OTHER RECEIVABLES

| | December 31, 2021 | December 31, 2020 |
|---------------------------------------|----------------------|----------------------|
| Accounts receivable | \$ 17,995 | \$ 47,149 |
| Less: allowance for doubtful accounts | (796) | (3,066) |
| Accounts receivable, net | 17,199 | 44,083 |
| Other | 558 | 158 |
| | \$ 17,757 | \$ 44,241 |

6. PREPAID AND OTHER CURRENT ASSETS

| | December 31, 2021 | December 31, 2020 |
|-----------------------|----------------------|----------------------|
| Prepaid insurance | \$ 743,750 | \$ - |
| Other prepaid expense | 12,590 | 18,355 |
| VAT receivable | 94,085 | 183 |
| Security deposit | 13,485 | 1,051 |
| | <u>\$ 863,910</u> | <u>\$ 19,589</u> |

7. PROPERTY AND EQUIPMENT

Property and equipment and the changes in property, equipment and accumulated depreciation for the years ended December 31, 2021 and 2020 are provided as follows:

| | Laboratory equipment | Office equipment | Total |
|---------------------------------|-------------------------|---------------------|------------------|
| Cost | | | |
| Balance at January 1, 2020 | \$ 53,926 | \$ 10,022 | \$ 63,948 |
| Additions | 7,949 | 1,736 | 9,685 |
| Effects of currency translation | 5,637 | 1,067 | 6,704 |
| Balance at December 31, 2020 | \$ 67,512 | \$ 12,825 | \$ 80,337 |
| Additions | 16,706 | - | 16,706 |
| Disposal | - | (209) | (209) |
| Effects of currency translation | (5,527) | (919) | (6,446) |
| Balance at December 31, 2021 | <u>\$ 78,691</u> | <u>\$ 11,697</u> | <u>\$ 90,388</u> |
| Accumulated depreciation | | | |
| Balance at January 1, 2020 | \$ 35,612 | \$ 5,521 | \$ 41,133 |
| Depreciation | 3,818 | 852 | 4,670 |
| Effects of currency translation | 3,616 | 581 | 4,197 |
| Balance at December 31, 2020 | \$ 43,046 | \$ 6,954 | \$ 50,000 |
| Depreciation | 5,049 | 1,318 | 6,367 |
| Effects of currency translation | (3,308) | (555) | (3,863) |
| Balance at December 31, 2021 | <u>\$ 44,787</u> | <u>\$ 7,717</u> | <u>\$ 52,504</u> |

As of December 31, 2021 and 2020, management assessed that there were no events or changes in circumstances that would require impairment testing

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8. LEASES

Right-of-Use Assets

The Company's leases certain assets under lease agreements.

| | Office Equipment | Laboratory Equipment | Office | Total |
|----------------------------------|---------------------|-------------------------|-------------------|-------------------|
| Cost | | | | |
| Balance at January 1, 2020 | \$ - | \$ - | \$ 482,171 | \$ 482,171 |
| Additions | 29,395 | 10,455 | - | 39,850 |
| Effects of currency translation | 2,189 | 779 | 45,114 | 48,082 |
| Balance at December 31, 2020 | \$ 31,584 | \$ 11,234 | \$ 527,285 | \$ 570,103 |
| Additions | 20,233 | 12,121 | - | 32,354 |
| Effects of currency translation | (3,063) | (1,279) | (38,142) | (42,484) |
| Balance at December 31, 2021 | <u>\$ 48,754</u> | <u>\$ 22,076</u> | <u>\$ 489,143</u> | <u>\$ 559,973</u> |
| Accumulated depreciation: | | | | |
| Balance at January 1, 2020 | \$ - | \$ - | \$ 49,034 | \$ 49,034 |
| Depreciation | 3,707 | 2,178 | 49,906 | 55,791 |
| Effects of currency translation | 276 | 162 | 8,305 | 8,743 |
| Balance at December 31, 2020 | \$ 3,983 | \$ 2,340 | \$ 107,245 | \$ 113,568 |
| Depreciation | 6,135 | 5,487 | 51,734 | 63,356 |
| Effects of currency translation | (524) | (380) | (9,749) | (10,653) |
| Balance at December 31, 2021 | <u>\$ 9,594</u> | <u>\$ 7,447</u> | <u>\$ 149,230</u> | <u>\$ 166,271</u> |

As of December 31, 2021 and 2020, management assessed that there were no events or changes in circumstances that would require impairment testing.

The carrying amount of the right-of-use assets is depreciated on a straight-line basis over the life of the leases, which at December 31, 2020, had an average expected life of 8 years.

Lease Liabilities

The Company's lease liabilities consist of office and laboratory equipment and office space. The present value of future lease payments were measured using an incremental borrowing rate of 10% per annum as of January 1, 2020 and January 1, 2021.

| | Total |
|---------------------------------|--------------|
| Balance as at January 1, 2020 | \$ 451,742 |
| Additions | 39,850 |
| Interest expenses | 47,173 |
| Lease payments | (86,051) |
| Effects of currency translation | 42,337 |
| As at December 31, 2020 | \$ 495,051 |
| Additions | 32,955 |
| Interest expenses | 47,102 |
| Lease payments | (97,429) |
| Effects of currency translation | (34,837) |
| As at December 31, 2021 | \$ 442,842 |

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| | December 31, 2021 | December 31, 2020 |
|--------------------------|------------------------------|------------------------------|
| Lease liabilities | | |
| Current portion | \$ 55,076 | \$ 47,611 |
| Long-term portion | 387,766 | 447,440 |
| Total lease liabilities | \$ 442,842 | \$ 495,051 |

At December 31, 2021, the Company is committed to minimum lease payments as follows:

| | December 31, 2021 |
|---------------------------------------|------------------------------|
| Maturity analysis | |
| Less than one year | \$ 95,663 |
| One to two years | 95,663 |
| Two to three years | 93,022 |
| Three to four years | 86,849 |
| Four to five years | 84,892 |
| More than five years | 144,204 |
| Total undiscounted lease liabilities | \$ 600,293 |
| Amount representing implicit interest | (157,451) |
| Lease obligations | \$ 442,842 |

9. ACCOUNTS PAYABLE AND ACCRUED EXPENSES

| | December 31, 2021 | December 31, 2020 |
|---------------------------|------------------------------|------------------------------|
| Accounts payable | \$ 747,768 | \$ 248,576 |
| Accrued liabilities | 26,989 | 77,016 |
| Payroll liabilities | 6,812 | 53,728 |
| Value added taxes payable | 3,217 | 19,817 |
| | \$ 784,786 | \$ 399,137 |

10. CONVERTIBLE DEBT – RELATED PARTY

During the years ended December 31, 2019 and 2020, the Company entered into loan agreements with related parties totaling EUR417,133 (approximately \$467,154) (the "2019 and 2020 Convertible Loans"). The 2019 and 2020 Convertible Loans bear interest at 3.5% and have a maturity date of September 30, 2022. While the 2019 and 2020 Convertible Loans are outstanding, the lenders are entitled to 0.5% of the Company's net income each year should the Company be profitable and provided that the amount paid does not exceed the principal amount of the debt; the lenders do not partake in the Company's losses. As the Company incurred losses during 2021, 2020 and 2019, no expense has been recorded in any period for profit sharing. At maturity, the 2019 and 2020 Convertible Loans are convertible into ordinary shares of the Company at EUR1 per share.

The 2019 and 2020 Convertible Loans were determined to be a financial instrument comprising an equity classified conversion feature with a host debt component. On initial recognition, the Company used the residual value method to allocate the principal amount of the 2019 and 2020 Convertible Loans between the two components. The host debt component was valued first, based on similar debt securities without an embedded conversion feature and the residual was allocated to the equity-classified conversion feature. The Company recognized debt discounts totaling EUR13,064 on issuance of the 2019 and 2020 Convertible Loans.

In November 2017, the Company entered into loan agreements with two shareholders of the Company for loans totaling EUR80,278 (approximately \$92,007) (the "2017 Convertible Loans"). The loans are convertible at the option of the lender to shares totaling 4.25% of the Company's common shares outstanding at the time of conversion. The loans are non-interest bearing, are unsecured and are due on demand. During the year ended December 31, 2019, principal in the amount of EUR5,000 (\$5,597) was exchanged for the 2019 and 2020 Convertible Loans and EUR5,000 (\$5,597) was extinguished as the lender elected to offset the debt amount against amounts in trade receivables due to the Company.

During the year ended December 31, 2021, the loan amount of EUR417,272 (\$508,237) were converted into 392,757 shares of share capital and the Company received cash of EUR6,485 (\$7,673) to issue shares.

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A continuity of the Company's Convertible Debt – Related Party is as follows:

| | 2019 and 2020 Convertible Debt | 2017 Convertible Debt | Total |
|--|---|--------------------------------------|--------------|
| | | | |

| | | | |
|-----------------------------------|-------------------|------------------|-------------------|
| Balance, January 1, 2020 | \$ 369,477 | \$ 78,815 | \$ 448,292 |
| Issued during the year | 11,414 | - | 11,414 |
| Conversion feature | (2,054) | - | (2,054) |
| Accretion | 30,787 | - | 30,787 |
| Effects of currency translation | 37,557 | 7,374 | 44,931 |
| Balance, December 31, 2020 | \$ 447,181 | \$ 86,189 | \$ 533,370 |
| Accretion | 60,136 | - | 60,136 |
| Conversion | (471,528) | (36,709) | (508,237) |
| Effects of currency translation | (3,568) | (3,814) | (7,382) |
| Balance, December 31, 2021 | \$ 32,221 | \$ 45,666 | \$ 77,887 |

11. LOANS PAYABLE

During the year ended December 31, 2020, the Company entered into a loan agreement for the principal amount of EUR20,000 (approximately \$22,828) (the "0.1% Loan"). The 0.1% Loan bears interest at 0.1% per month and is due on demand and is secured against the Company's trade receivables.

Between the years of 2011 to 2013, the Company received loans from related parties totaling EUR35,000 (approximately \$40,144) (the "Related Party 6% Loans"). The Loans have a stated interest rate of at 6.0%. EUR10,000 (approximately \$11,461) of the loans matures on July 31, 2020 and EUR25,000 (approximately \$28,653) of the loan matures on December 31, 2021. As the Related Party 6% Loans were received at below market interest rates, the initial fair value of the 3% Loan was determined to be EUR21,936 (approximately \$25,140), determined using an estimated effective interest rate of 11.5%.

In 2017, the Company obtained a line of credit of up to EUR200,000 (approximately \$229,224) (the "LOC"). The LOC accrues interest of 4% on amounts drawn, and a 0.5% fee if no amounts are drawn. The LOC was fully repaid in early 2022.

A continuity of the Company's loans payable is as follows:

| | 0.1% Loan | Related Party 6% Loans | LOC | Total |
|-----------------------------------|------------------|---------------------------|------------------|-------------------|
| Balance, January 1, 2020 | \$ - | \$ 36,056 | \$ 58,787 | \$ 94,843 |
| Issued during the year | 22,828 | - | 2,506 | 25,334 |
| Accretion | - | 1,765 | - | 1,765 |
| Effects of currency translation | 1,700 | 3,505 | 5,686 | 10,891 |
| Balance, December 31, 2020 | \$ 24,528 | \$ 41,326 | \$ 66,979 | \$ 132,833 |
| Issued during the year | - | - | 2,305 | 2,305 |
| Extinguished during the year | - | - | (11,832) | (11,832) |
| Accretion | - | 1,542 | - | 1,542 |
| Effects of currency translation | (1,774) | (3,049) | (4,479) | (9,302) |
| Balance, December 31, 2021 | \$ 22,754 | \$ 39,819 | \$ 52,973 | \$ 115,546 |

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12. SILENT PARTNERSHIPS

During the year ended December 31, 2020, the Company entered into silent partnership agreements whereby the lender agreed to lend a total of EUR299,400 (approximately \$341,740) (the "3% SPAs"). The Company is to repay the amount by December 31, 2025. The Company must pay a minimum of 3% interest per annum on the loans. The lender is entitled to 3% of the Company's net income each year should the Company be profitable and provided that the amount paid does not exceed the principal amount of the debt; the lender does not partake in the Company's losses. Upon the amounts coming due, the lender of the 3% SPAs have the option to demand an additional payment equal to 15% of the contribution as a final remuneration (the "Final Remuneration"). The Final Remuneration is considered to be the cost of issuing debt. The 3% SPAs were received at below market interest rates as part of a government program for COVID-19 relief. The initial fair value of the 3% SPAs was determined to be EUR218,120 (approximately \$248,966), which was determined using an estimated effective interest rate of 11.5%. The difference between the face value and the fair value of the 3% SPAs of EUR81,280 (\$92,774) has been recognized as government grant income during the period. During the year ended December 31, 2021 the Company received the remaining EUR200,000 (\$236,640). The initial fair value of the 3.0% SPAs received was determined to be EUR230,000 (approximately \$272,136), determined using an estimated effective interest rate of 11.5%. The initial fair value of the 3.0% SPAs received in 2021 was determined to be EUR156,549 (approximately \$185,229), which was determined using an estimated effective interest rate of 11.5%. The difference between the face value and the fair value of the 3.0% SPAs received in 2021 of EUR43,451 (approximately \$51,410) has been recognized as government grant income during the period.

During the year ended December 31, 2020, the Company entered into silent partnership agreements whereby the lender agreed to lend a total of EUR\$50,000 (approximately \$57,071) (the "3.5% SPAs"). The Company is to repay the amount by June 30, 2025. The Company must pay a minimum of 3.5% interest per annum on the loans. The lender is entitled to 0.5% of the Company's net income each year should the Company be profitable and provided that the amount paid does not exceed the principal amount of the debt; the lender does not partake in the Company's losses. The 3.5% SPAs are convertible to common shares of the Company at EUR1 per share in the event that the Company is involved in any of the following transactions: capital increases, a share or asset deal or a public offering. Pursuant to the silent partnership agreement, the Company notified the holder, at which point the holder declined the opportunity to convert their loan into common shares. The 3.5% SPAs were determined to be a financial instrument comprising an equity classified conversion feature with a host debt component. On initial recognition, the Company used the residual value method to allocate the principal amount of the 3.5% SPAs between the two components. The host debt component was valued first, based on similar debt securities without an embedded conversion feature and the residual was allocated to the equity-classified conversion feature.

Between the years of 2013 to 2016, the Company entered into silent partnership agreements for loans totaling EUR798,694 (approximately \$915,383) (the "8.5% SPAs"). Under the 8.5% SPAs, the Company is to repay EUR398,634 (approximately \$408,496) of the loans by June 30, 2023 and EUR400,000 (approximately \$409,859) of the loans matures on December 31, 2025. The Company must pay a minimum of 8.5% interest per annum on the loans. The lenders are entitled to 1.66% of the Company's net income each year should the Company be profitable and provided that the amount paid does not exceed the principal amount of the debt; the lenders do not partake in the Company's losses. At maturity, the lenders of the 8.5% SPAs have the option to demand an additional payment equal to 30% of the principal of the loans as a Final Remuneration. The Final Remuneration is considered to be cost of issuing the debt and as such, the initial fair value of the 8.5% SPAs was determined to be EUR772,568 (approximately \$85,440), determined using an estimated effective interest rate of 11.5%. Under the agreements, the lenders also agreed to invest in the Company and contributed EUR676,366 (approximately \$775,183) to acquire 27,752 shares of the Company between the years of 2013 and 2016. During the year ended December 31, 2020, EUR80,000 (approximately \$99,527) of the 8.5% SPAs was extinguished as the lender, who is also a customer of the Company, elected to offset the debt amount against amounts in trade receivables due to the Company. The debtor did not demand the Final Remuneration and the Company recognized a gain on the extinguishment of \$8,214.

In 2010, the Company entered into a silent partnership agreement whereby the lender agreed to lend the Company EUR300,000 (approximately \$343,830) (the "8% SPA"). The Company must repay the loan by January 31, 2023. The Company must pay a minimum of 8% interest per annum on the loan. The lender is entitled to 1.95% of the Company's net

income each year should the Company be profitable and provided that the amount paid does not exceed the principal amount of the debt; the lender does not partake in the Company's losses. At maturity, the lender of the 8% SPA has the option to demand an additional payment of up to 30% of the principal of the loan as a Final Remuneration. The Final Remuneration is considered to be cost of issuing the debt and as such, the initial fair value of the 8% SPA was determined to be EUR\$289,900 (approximately \$332,254), determined using an estimated effective interest rate of 11.5%. Under the agreements, the lender also agreed to invest in the Company and contributed EUR100,000 to acquire 2,800 shares of the Company.

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A continuity of the Company's silent partnerships is as follows:

| | 3% SPAs | 3.5% SPAs | 8.5% SPAs | 8% SPAs | Total |
|-----------------------------------|-------------------|------------------|---------------------|-------------------|---------------------|
| Balance, January 1, 2020 | \$ - | \$ - | \$ 1,011,123 | \$ 407,802 | \$ 1,418,925 |
| Issued during the year | 341,740 | 57,071 | - | - | 398,811 |
| Extinguished during the year | - | - | (99,527) | - | (99,527) |
| Discount | (92,774) | (18,238) | - | - | (111,012) |
| Accretion | 19,596 | 1,478 | 29,204 | 9,544 | 59,822 |
| Interest expense | - | - | - | - | - |
| Effects of currency translation | 19,996 | 3,002 | 89,367 | 38,866 | 151,231 |
| Balance, December 31, 2020 | \$ 288,558 | \$ 43,313 | \$ 1,030,167 | \$ 456,212 | \$ 1,818,250 |
| Issued during the year | 236,636 | - | - | - | 236,636 |
| Extinguished during the year | - | - | - | - | - |
| Discount | - | - | (51,410) | - | (51,410) |
| Accretion | 34,970 | 3,214 | 30,018 | 10,093 | 78,295 |
| Interest expense | - | - | - | - | - |
| Effects of currency translation | (31,315) | (3,256) | (73,694) | (33,387) | (141,652) |
| Balance, December 31, 2021 | \$ 528,849 | \$ 43,271 | \$ 935,081 | \$ 432,918 | \$ 1,940,119 |

13. EQUITY

Ordinary shares

The Company has 45 million ordinary shares authorized. Holders of ordinary shares are entitled to dividends as declared from time to time and are entitled to one vote per share at general meetings of the Company. The par value of share capital is EUR0.01 per share.

During the year ended December 31, 2021, the Company issued ordinary shares as follows:

- Pursuant to the Contribution Agreement as described in note 4, the Company issued 6,000,000 of its common shares to the former shareholders of PG in exchange for all of the issued and outstanding shares of PG.
- During 2021 Mainz Biomed N.V. (the company acquired for accounting purposes) sold 3,510,000 shares for \$2.2 million gross proceeds.
- At the time of the Company's initial public offering in November 2021, the Company sold 2,300,000 shares for \$5.00 per share for aggregate proceeds of \$10,425,160, net of fees and expenses
- 392,757 shares for conversion of debt of \$515,872

Warrants

During the year ended December 31, 2021, in conjunction with private sales of ordinary shares, the Company issued 3,745,000 warrants and 140,000 underwriter warrants valued at \$754,286, which was recorded to Reserve in the Statement of Financial Position. The warrants were valued using the Black-Scholes pricing model. The Black-Scholes model requires six basic data inputs: the exercise or strike price, time to expiration, the risk free interest rate, the current stock price, the estimated volatility of the stock price in the future, and the dividend rate. Changes to these inputs could produce a significantly higher or lower fair value measurement.

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For the year ended December 31, 2021, the estimated fair values of the warrants measured are as follows:

| | December 31, 2021 |
|---------------------------------|----------------------|
| Stock price at time of issuance | \$ 0.283 - 1.602 |
| Exercise price | \$ 3.00 |
| Expected term | 2 - 5 years |
| Expected average volatility | 75 - 95% |
| Expected dividend yield | 0 |
| Risk-free interest rate | 0.16 - 1.08% |

A summary of activity during the year ended December 31, 2021 is as follows:

| | Warrants Outstanding | Weighted- Average Exercise Price | Weighted- Average Life (years) |
|--|-------------------------|--|--------------------------------------|
| Balance as of January 1, 2021 | - | \$ - | - |
| Issuances | 3,855,000 | 3.08 | 2.13 |
| Exercised | - | - | - |
| Expiry | - | - | - |
| Balance as of December 31, 2021 | 3,855,000 | \$ 3.08 | 1.60 |

Stock options

We adopted our 2021 Omnibus Incentive Plan (the "Plan"). Under the Plan, we are authorized to issue equity incentives in the form of incentive stock options, non-statutory stock options, restricted shares, restricted share units, share appreciation rights, performance units or performance shares under separate award agreements. Under the Plan, the aggregate number of shares underlying awards that we could issue cannot exceed 2,300,000 ordinary shares.

During the year ended December 31, 2021, the Company granted 1,504,650 stock options valued at \$13,968,627. Stock options with time-based vesting were valued using the Black-Scholes pricing model, while stock options with market-based vesting were valued using the Monte Carlo simulation. During the year ended December 31, 2021, the Company recorded share-based compensation of \$6,430,158 and the unamortized expense of \$7,538,469 as of December 31, 2021. Forfeitures are estimated at the time of grant and adjusted, if necessary, in subsequent periods if actual forfeitures differ from those estimates.

For the year ended December 31, 2021, the estimated fair values of the stock options are as follows:

| | December 31, 2021 |
|-----------------------------|----------------------|
| Expected term | 5.5 - 10 years |
| Exercise price | \$ 5.00 - \$10.56 |
| Expected average volatility | 70 - 79% |
| Expected dividend yield | 0 |
| Risk-free interest rate | 1.10 - 1.51% |

A summary of activity during the year ended December 31, 2021 follows:

| | Stock Options Outstanding | Weighted- Average Exercise Price | Weighted- Average Life (years) |
|-------------------------------------|---------------------------------|--|--------------------------------------|
| Balance as of January 1, 2021 | - | \$ - | - |
| Grants | 1,504,650 | 5.10 | 10.00 |
| Exercised | - | - | - |
| Expiry | - | - | - |
| Balance as of December 31, 2021 | 1,504,650 | \$ 5.10 | 9.85 |
| Exercisable as of December 31, 2021 | 895,144 | \$ 5.10 | 9.86 |

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14. COST OF REVENUE

| | Years ended December 31, | | |
|--------------------------------------|-----------------------------|------------|------------|
| | 2021 | 2020 | 2019 |
| Test kit materials | \$ 134,057 | \$ 149,612 | \$ 79,179 |
| Selling expenses | 8,967 | 26,696 | 54,101 |
| Maintenance of laboratory equipment | 95,352 | 56,151 | 39,761 |
| Salaries and benefits | 67,562 | 88,665 | 55,006 |
| Royalties | 88,739 | 46,017 | 111,940 |
| Depreciation of laboratory equipment | 5,049 | 3,339 | 2,677 |
| Total costs of revenue | \$ 399,726 | \$ 370,480 | \$ 342,664 |

15. RELATED PARTY TRANSACTIONS

Key management personnel include those persons having authority and responsibility for planning, directing and controlling the activities of the Company as a whole. The Company has determined that key management personnel consist of members of the Company's Board, its Chief Executive Officer, Chief Financial Officer, Chief Operating Officer and Chief Scientific Officer. The remuneration of directors and key management personnel during the year ended December 31, 2021, 2020 and 2019 was as follows:

| | December 31, 2021 | December 31, 2020 | December 31, 2019 |
|-----------------------|----------------------|----------------------|----------------------|
| Salaries and benefits | \$ 673,464 | \$ 202,442 | \$ 192,423 |

As of December 31, 2021 and 2020, the Company accrued management salaries of \$233,710 and \$33,347, respectively.

Remuneration paid to related parties other than key personnel during the year ended December 31, 2021, 2020 and 2019 was as follows:

| | December 31, 2021 | December 31, 2020 | December 31, 2019 |
|-----------------------|----------------------|----------------------|----------------------|
| Salaries and benefits | \$ 926 | \$ 33,078 | \$ 3,500 |

During the year ended December 31, 2021, 2020 and 2019, the Company incurred interest expense of \$36,442, \$5,658 and \$4,920 on balances owing to related parties, respectively.

During the year ended December 31, 2021, 2020 and 2019, the Company incurred accretion expense of \$17,489, \$2,135 and \$1,916 on balances owing to related parties, respectively.

As of December 31, 2021, \$1,683 (2020 - \$1,148) is included in accounts payable, accrued liabilities and loans payable in relation to transactions with related parties, which are non-interest bearing, unsecured and due on demand.

As of December 31, 2021 and 2020, the entire balance of the 6% Loans of \$41,728 (2020 - \$41,326) was owing to shareholders of the Company (Note 10).

As of December 31, 2021, EUR0 (2020 – EUR30,139 or approximately \$36,951) and EUR40,139 (approximately \$47,856) (2020 – EUR40,139, or approximately \$49,226) of the 2017 Convertible Loans were owing to the Chief Scientific Officer (the "CSO") and a major shareholder of the Company, respectively. The amounts are due on demand (Note 9).

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As at December 31, 2021, EUR0 (2020 – EUR5,000, or approximately \$6,132) with a carrying value of \$0 (2020 – \$5,360) and EUR30,000 (approximately \$35,768) with a carrying value of \$33,767 (2020 – \$32,161) of the 2019 and 2020 Convertible Loans were owing to the CSO of the Company and a major shareholder of the Company, respectively. The amounts are due on September 30, 2022.

As at December 31, 2021, EUR350,000 (approximately \$417,288) (2020 – EUR350,000, or approximately \$429,240) with a carrying value of \$498,972 (2020 – \$498,481) of the 8.5% SPAs were owing to major shareholders of the Company. EUR150,000 of the loan is due on June 30, 2023 and EUR200,000 of the loan is due on December 31, 2025.

During 2021 and 2020 we recorded expenses of \$259,600 and \$45,959, respectively, for the cost of royalties and other associated costs owed to ColoAlert AS, the company from which we exclusively license the ColoAlert product. Our Board Chairman is also an owner of ColoAlert AS. During 2021 and 2020 we paid ColoAlert AS \$173,844 and \$43,309, respectively. On December 31, 2021 and 2020 we had liabilities recorded for unpaid costs to ColoAlert AS of \$84,750 and \$2,837, respectively, recorded as Accounts payable – related party.

As at December 31, 2021 and 2020, the entire balance of the LOC of \$55,514 (2020 – \$66,979) is due to a family member of the CSO of the Company (Note 10).

16. GOVERNMENT GRANTS

The Company receives government grants related to its research and development activities. The amount of government grants received during the years ended December 31, 2021, 2020 and 2019 and recognized as research grant revenue were as follows:

| | December 31, 2021 | December 31, 2020 | December 31, 2019 |
|--|----------------------|----------------------|----------------------|
| Research and Development Projects | | | |
| Rapid detection of antibody-based pathogens | \$ 102,780 | \$ 91,461 | \$ - |
| Multi-marker test for the early detection of pancreatic cancer | 196,217 | 100,591 | - |
| Microarray based on nucleic acid detection for respiratory pathogens | - | 5,995 | 51,511 |
| Genetically based rapid detection of respiratory tract infections | - | 26,087 | 99,504 |
| | <u>\$ 298,997</u> | <u>\$ 224,134</u> | <u>\$ 151,015</u> |

As of December 31, 2021 and 2020, the grants for rapid detection of antibody-based pathogens and a multi-marker test for the early detection of pancreatic cancer had remaining grant balances of approximately \$254,796 and \$148,000, respectively.

During the year ended December 31, 2021, 2020 and 2019, the Company recognized government grant income in the amount of \$51,410, \$92,774 and \$0, respectively, related to the 3% SPAs which were received at below market interest rates as part of a government program for COVID-19 relief (Note 12).

17. FINANCIAL INSTRUMENT RISK MANAGEMENT

Basis of Fair Value

Financial instruments measured at fair value are classified into one of three levels in the fair value hierarchy according to the relative reliability of the inputs used to estimate the fair values. The three levels of the fair value hierarchy are:

- Level 1 — Unadjusted quoted prices in active markets for identical assets or liabilities;
- Level 2 — Inputs other than quoted prices that are observable for the asset or liability either directly or indirectly; and
- Level 3 — Inputs that are not based on observable market data.

The Company's financial instruments consist of cash, trade and other receivables, accounts payable and accrued liabilities, lease liabilities, convertible debentures, and loans payable. With the exception of convertible debentures and loans payable, the carrying value of the Company's financial instruments approximate their fair values due to their short-term maturities. The fair value of convertible debentures and notes payable approximate their carrying value, excluding discounts, due to minimal changes in interest rates and the Company's credit risk since issuance of the instruments.

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The Company is exposed in varying degrees to a variety of financial instrument related risks. The Board of Directors approves and monitors the risk management processes, inclusive of documented investment policies, counterparty limits, and controlling and reporting structures.

Credit Risk

The Company's principal financial assets are cash and trade receivables. The Company's credit risk is primarily concentrated in its cash which is held with institutions with a high credit worthiness. Management believes that the Company is not exposed to any significant credit risk with respect to its cash.

The Company mitigates its credit risk on receivables by actively managing and monitoring its receivables. The Company has been determined that no credit loss provision is required, as all amounts outstanding are considered collectible. During the year ended December 31, 2021, the Company incurred \$0 in bad debt expense (2020 - \$506). The Company mitigates credit risk by evaluating the creditworthiness of customers prior to conducting business with them and monitoring its exposure for credit losses with existing customers.

Liquidity Risk

Liquidity risk is the risk that the Company will not be able to meet its financial obligations as they fall due. The Company has a planning and budgeting process in place to help determine the funds required to support the Company's normal operating requirements on an ongoing basis. As at December 31, 2021, the Company had an unrestricted cash balance of \$8,727,542 to settle current liabilities of \$1,351,755.

Historically, the Company's primary source of funding has been the issuance of equity securities for cash, primarily through the issuance of preferred shares and credit facility borrowings. The Company's access to financing is always uncertain. There can be no assurance of continued access to significant equity funding.

The following is an analysis of the contractual maturities of the Company's financial liabilities as at December 31, 2021:

| | Within one year | Between one and five years | More than five years |
|--|---------------------|-------------------------------|-------------------------|
| Accounts payable and accrued liabilities | \$ 943,178 | \$ - | \$ - |
| Convertible debt | 81,623 | - | - |
| Loans payable | 121,087 | - | - |
| Silent partnerships | - | 2,033,162 | - |
| Lease liabilities | 100,251 | 377,711 | 151,120 |
| | <u>\$ 1,246,139</u> | <u>\$ 2,410,873</u> | <u>\$ 151,120</u> |

Foreign Exchange Risk

Foreign currency risk is the risk that the fair values of future cash flows of a financial instrument will fluctuate because they are denominated in currencies that differ from the respective functional currency. As the Company operates in Germany it holds a portion of its cash balances in Euro to approximate between three to twelve months estimated operating needs. The remainder of the Company's cash is held in U.S. Dollars, the Company's reporting currency, which is also the currency of the Company's largest cash outlays over the next twenty-four months.

Interest Rate Risk

Interest rate risk is the risk that the fair value of future cash flows of a financial instrument will fluctuate because of changes in market interest rates. The Company is not exposed to interest rate risk as its financial liabilities carry interest at fixed rates.

Capital Management

In the management of capital, the Company includes components of stockholders' equity. The Company aims to manage its capital resources to ensure financial strength and to maximize its financial flexibility by maintaining strong liquidity and by utilizing alternative sources of capital including equity, debt and bank loans or lines of credit to fund continued growth. The Company sets the amount of capital in proportion to risk and based on the availability of funding sources. The Company manages the capital structure and makes adjustments to it in light of changes in economic conditions and the risk characteristics of the underlying assets. As a young growth company, issuance of equity has been the primary source of capital to date. Additional debt and/or equity financing may be pursued in future as deemed appropriate to balance debt and equity. To maintain or adjust the capital structure, the Company may issue new shares, take on additional debt or sell assets to reduce debt.

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18. CONCENTRATIONS

Major customers are defined as customers that each individually account for greater than 10% of the Company's annual revenues. For the year ended December 31, 2021, 2020 and 2019, the Company had revenue from four, three, and four customers that accounted for approximately 56%, 46% and 59% of revenue, respectively.

19. INCOME TAXES

The provision for income taxes differs from the amount that would have resulted in applying the combined federal statutory tax rate as follows:

| | December 31, 2021 | December 31, 2020 | December 31, 2019 |
|--|----------------------|----------------------|----------------------|
| Net loss for the period | \$ (11,690,098) | \$ (586,895) | \$ (957,055) |
| Statutory income tax rate | 25.0% | 31.2% | 31.2% |
| Expected in tax recovery at statutory income tax rates | \$ (2,923,000) | \$ (177,814) | \$ (298,889) |
| Permanent differences | 1,601,000 | 14,390 | 3,498 |
| Difference in tax rates, foreign exchange, and other | 484,000 | (112,435) | 16,485 |
| Change in deferred tax assets not recognized | 838,000 | 275,859 | 278,906 |
| Income tax expense (benefit) | <u>\$ -</u> | <u>\$ -</u> | <u>\$ -</u> |

Temporary differences that give rise to the following deferred tax assets and liabilities at are:

| | December 31, 2021 | December 31, 2020 |
|------------------------------------|----------------------|----------------------|
| Deferred tax assets | | |
| Net operating loss carryforwards | \$ 2,185,532 | \$ 1,347,532 |
| Deferred tax assets not recognized | (2,185,532) | (1,347,532) |
| Net deferred tax asset | <u>\$ -</u> | <u>\$ -</u> |

As at December 31, 2021 and 2020, the Company has approximately \$7,357,000 and \$4,315,000 of non-capital losses that may be used to offset future taxable income. These losses may be carried forward on an indefinite basis and do not expire. The Company has not recognized the deferred tax assets due to the uncertainty around utilizing all of the losses carry-forwards.

Tax attributes are subject to review, and potential adjustment, by tax authorities.

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20. OPERATING EXPENSES

For the years ended December 31, 2021, 2020 and 2019, operating expenses consisted of the follows,

| General and administrative | 2021 | 2020 | 2019 |
|-----------------------------------|---------------------|-------------------|-------------------|
| Bad Debt | \$ - | \$ 506 | \$ 19,411 |
| Consulting services | - | 2,179 | 68,424 |
| Depreciation | 29,515 | 26,069 | 20,666 |
| Office | 193,513 | 55,497 | 45,363 |
| Professional Fees | 805,898 | 20,020 | 36,997 |
| Salaries and Benefits | 986,490 | 268,545 | 223,495 |
| Employee stock option expense | 6,430,158 | - | - |
| Travel and entertainment | 37,503 | 1,753 | 14,506 |
| | \$ 8,478,017 | \$ 374,569 | \$ 428,862 |
| Sales and marketing | 2021 | 2020 | 2019 |
| Advertising | \$ 587,018 | \$ 5,187 | \$ 15,690 |
| Consulting services | 243,012 | - | - |
| Depreciation | 8,868 | 7,833 | 11,833 |
| Office | 34,206 | 16,674 | 25,973 |
| Salaries and Benefits | 84,418 | 80,686 | 127,964 |
| | \$ 957,522 | \$ 110,380 | \$ 181,460 |
| Research and development | 2021 | 2020 | 2019 |
| Depreciation | \$ 26,290 | \$ 23,220 | \$ 17,867 |
| Consulting services | 83,646 | - | - |
| Office | 106,487 | 49,432 | 39,221 |
| Salaries and Benefits | 250,266 | 239,199 | 193,228 |
| | \$ 466,689 | \$ 311,851 | \$ 250,316 |

21. SUBSEQUENT EVENTS

In January 2022, we entered into a Technology Rights Agreement related a portfolio of novel mRNA biomarkers developed at the Université de Sherbrooke (the "UdeS Biomarkers"). Pursuant to the agreement, we acquired an exclusive unilateral option to acquire an exclusive license to the UdeS Biomarkers in exchange for a payment of €10,000 and an agreement to pay for the prosecution and maintenance of certain intellectual property relating to the UdeS Biomarkers. The option to license the technology is for one-year, which period can be extended at our sole discretion for six additional months (the "Option Period").

The UdeS Biomarkers are five gene expression biomarkers which have demonstrated a high degree of effectiveness in detecting CRC lesions including advanced adenomas ("AA"), a type of pre-cancerous polyp often attributed to this deadly disease. In a UdeS sponsored study evaluating these biomarkers, study results achieved overall sensitivities of 75% for AA and 95% for CRC, respectively, for a 96% specificity outcome.

We have a license during the Option Period to use the UdeS Biomarkers to further analyze their sensitivity and specificity. Depending on positive results from these further studies, we intend to exercise the option to license the UdeS Biomarkers for future integration into ColoAlert. If we exercise the option, we will pay the licensor a royalty on all products incorporating the UdeS Biomarkers and we will pay for the prosecution and maintenance of patents relating to the UdeS Biomarkers.

Subsequent to year end 202,943 shares were issued from the exercise of warrants. Net proceeds received from these exercises was \$382,500.

On January 28, 2022, we conducted a follow-on public offering in which we sold 1,725,000 ordinary shares for gross proceeds of \$25,875,000.

ITEM 19. EXHIBITS

The following exhibits are filed as part of this Annual Report on Form 20-F:

| | |
|---------|---|
| 3.1 | Form of Deed of Conversion** |
| 4.1 | Share Certificate—Ordinary Shares** |
| 10.1 | License and Development Agreement, dated January 1, 2019, between the Company and ColoAlert AS** |
| 10.2 | Amendment to License and Development Agreement, dated November 2, 2020, between the Company and ColoAlert AS** |
| 10.3 | Option to Purchase Intellectual Property Assets, dated February 2021, among the Company, ColoAlert AS and Norda ASA** |
| 10.4 | Management Services Agreement, dated July 1, 2020, between the Company and Guido Baechler** |
| 10.5 | Consulting Agreement, dated July 16, 2021, between the Company and William Caragol** |
| 10.6 | Management Services Agreement, dated January 1, 2019, between the Company and Dr. Moritz Eidens** |
| 10.7 | Management Services Agreement, dated January 1, 2019, between the Company and Philipp Freese** |
| 10.8 | Contribution Agreement between the Company and PharmGenomics GmbH** |
| 10.9 | Form of Silent Partnership Agreements** |
| 10.10 | Form of Mainz Biomed N.V. 2021 Omnibus Incentive Plan** |
| 10.11 | Amendment to Management Services Agreement between Guido Baechler and the Company** |
| 10.12 | Amendment to Consultant Agreement between William Caragol and the Company** |
| 10.13 | Amendment to Management Services Agreement between Dr. Moritz Eidens and the Company** |
| 10.14 | Amendment to Consultant Agreement between Philipp Freese and the Company** |
| 10.15 | Technology Rights Agreement, dated January 4, 2022, between the Company and Socpra Sciences Santé Et Humaines S.E.C** |
| 10.16 | Employment Contract with William Caragol, dated April 29, 2022 |
| 12.1 | Section 302(a) Certification of CEO |
| 12.2 | Section 302(a) Certification of CFO |
| 13.1 | Section 906 Certifications of CEO and CFO |
| 14.1 | Code of Ethics and Business Conduct** |
| 101.INS | Inline XBRL Instance Document. |
| 101.SCH | Inline XBRL Taxonomy Extension Schema Document. |
| 101.CAL | Inline XBRL Taxonomy Extension Calculation Linkbase Document. |

| | |
|---------|---|
| 101.DEF | Inline XBRL Taxonomy Extension Definition Linkbase Document. |
| 101.LAB | Inline XBRL Taxonomy Extension Label Linkbase Document. |
| 101.PRE | Inline XBRL Taxonomy Extension Presentation Linkbase Document. |
| 104 | Cover Page Interactive Data File (formatted as Inline XBRL and contained in Exhibit 101). |

** Previously filed

SIGNATURES

The registrant certifies that it meets all of the requirements for filing on Form 20-F and that it has duly caused and authorized the undersigned to sign this annual report on its behalf.

Mainz Biomed N.V.

Date: May 2, 2022

By: /s/ Guido Baechler

Guido Baechler
Chief Executive Officer

EMPLOYMENT AGREEMENT

This Employment Agreement (the “**Agreement**”) is made and entered into as of April 29, 2022 (effective May 1, 2022), by and between William J. Caragol (the “**Employee**”) and Mainz Biomed N.V. (the “**Company**”).

WHEREAS, the Company desires to employ the Employee on the terms and conditions set forth herein; and

WHEREAS, the Employee desires to be employed by the Company on such terms and conditions.

NOW, THEREFORE, in consideration of the mutual covenants, promises, and obligations set forth herein, the parties agree as follows:

1. **Term.** The Employee’s employment hereunder shall be at will and shall be effective as of May 1, 2022 (the “**Effective Date**”) .. The period during which the Employee is employed by the Company hereunder is hereinafter referred to as the “**Employment Term**.”

2. **Position and Duties.**

2.1 **Position.** During the Employment Term, the Employee shall serve as the Chief Financial Officer of the Company, reporting to the Chief Executive Officer (the “**CEO**”) of the Company. In such positions, the Employee shall have such duties, authority, and responsibilities as shall be determined from time to time by the CEO or the Board of Directors of the Company (the “**Board**”), which duties, authority, and responsibilities are consistent with the Employee’s position and those assigned to Chief Financial Officers of companies listed on the Nasdaq Capital Market. The Employee shall, if requested, also serve as an officer or director of any affiliate of the Company for no additional compensation. Employee will be given an indemnification agreement with terms reasonably satisfactory to the Employee. In addition, the Company and any such affiliate shall at all times maintain directors and officers insurance and such other insurance as is customary for similarly situated businesses.

2.2 **Duties.** During the Employment Term, the Employee shall devote substantially all of Employee’s business time and attention to the performance of the Employee’s duties hereunder; provided that you may spend up to twenty percent (20%) of your business time as a director and/or consultant to entities that are not directly competitive with the Company and will not otherwise engage in any other business, profession, or occupation for compensation or otherwise which would conflict or interfere with the performance of such services either directly or indirectly without the prior written consent of the Board (it being acknowledged by the Company, that all directorships in other entities held by the Employee on the date hereof shall not be deemed to cause such a conflict or interference). The Employee will not be permitted without the written consent of a majority of the Board members, which shall not be unreasonably conditioned or denied (a) act or serve as a director, trustee, committee member, or principal of any type of company, entity or business, civic, or charitable organization and (b) purchase or own five percent (5%) of more of the publicly traded securities of any corporation or have any such ownership position in such an entity that does not represent a passive investment or that makes the Employee a controlling person of, or a member of a group that controls, such entity. For absence of doubt, any directorship (current or nominee), consulting/advisory agreement, of ownership position held by the Employee (as detailed in Annex A) in place as of the date of this agreement shall be considered approved (or consented to) pursuant to this Section 2.2.

3. **Place of Performance.** Until such time as the Company establishes offices for its operations, the Employee shall be responsible for the cost of maintaining his workspace or office and the costs of operating such office.

4. **Compensation.**

4.1 **Base Salary.** The Company shall pay the Employee an annual rate of base salary of US\$350,000. The Company shall pay the Base Salary due hereunder in periodic installments in accordance with the Company’s customary payroll practices and applicable wage payment laws, but no less frequently than monthly. The Employee’s Base Salary shall be reviewed at least annually by the Board’s Compensation Committee or, in its absence, the Board (the “**Compensation Committee**”) and the Compensation Committee may, but shall not be required to, increase the base salary during the Employment Term. However, the Employee’s base salary may not be decreased during the Employment Term other than as part of an across-the-board salary reduction that applies in the same manner to all senior employees. The Employee’s annual base salary, as in effect from time to time, is hereinafter referred to as “**Base Salary**”.

4.2 **Annual Bonus.**

(a) For each year of the Employment Term, the Employee shall be eligible to receive an annual bonus (the “**Annual Bonus**”) equal to 50% of the Base Salary. The Employee and the Compensation Committee shall use reasonable efforts to mutually agree upon milestones and associated and commensurate payment amounts for any such Annual Bonus.

(b) The Annual Bonus, if any, will be paid within the applicable current fiscal year as determined by the Compensation Committee.

4.3 **Equity Awards.**

(a) In consideration of the Employee entering into this Agreement and as an inducement to join the Company, the Company will grant 80,000 stock options pursuant to the Company’s 2021 Omnibus Incentive Plan, which options shall vest over four years pursuant to the standard Company policy.

4.4 **Health Benefit Payment.** The Company shall reimburse the Employee for payments to participate in any one U.S. health insurance plan and one U.S. dental plan (if not included in the U.S. Health Insurance Plan) for the benefit of the Employee and any spouse or dependents eligible under such plan in an amount of up to \$2,500 per month; provided that if the Employee provides sufficient information for such payments, the Company will make such payments directly on the Employee’s behalf when due. Such amount shall not be cumulative, and if such payments are less than \$2,500 per month, the difference shall not be available for future or prior months.

4.5 **Employee Benefits.** During the Employment Term, the Employee shall be entitled to participate in all employee benefit plans, practices, and programs maintained by the Company, as in effect from time to time (collectively, “**Employee Benefit Plans**”) to the extent consistent with applicable law and the terms of the applicable Employee Benefit Plans. The Company reserves the right to amend or terminate any Employee Benefit Plans at any time in its sole discretion, subject to the terms of such Employee Benefit Plan and applicable law.

4.6 **Vacation; Paid Time-Off.** During the Employment Term, the Employee shall be entitled to twenty- (20) paid vacation days per calendar year (prorated for partial years) in accordance with the Company’s vacation policies, as in effect from time to time. Unused vacation time will rollover into future years.

4.8 **Business Expenses.** The Employee shall be entitled to reimbursement for all reasonable and necessary out-of-pocket business, entertainment, and travel expenses incurred by the Employee in connection with the performance of the Employee’s duties hereunder in accordance with the Company’s expense reimbursement policies and procedures, to be approved by the Company’s CEO prior to reimbursement. The Company will reimburse the Employee for maintaining a remote office, up to \$1,500 per month.

4.9 **Indemnification.** In the event that the Employee is made a party or threatened to be made a party to any action, suit, or proceeding, whether civil, criminal, administrative, or investigative (a “**Proceeding**”), other than any Proceeding initiated by the Employee or the Company related to any contest or dispute between the Employee and the Company or any of its affiliates with respect to this Agreement or the Employee’s employment hereunder, by reason of the fact that the Employee is or was a director or officer of the Company, or any affiliate of the Company, or is or was serving at the request of the Company as a director, officer, member, employee, or agent of another corporation or a partnership, joint venture, trust, or other enterprise, the Employee shall be indemnified and held harmless by the Company to the fullest extent applicable to any other officer or director of the Company from and against any liabilities, costs, claims, and expenses, including all costs and expenses incurred in defense of any Proceeding (including attorneys’ fees). Such obligation shall be further documented pursuant to an indemnification agreement with customary terms and conditions that are acceptable to the Employee.

5. **Termination of Employment.** The Employment Term and the Employee’s employment hereunder may be terminated by either the Company or the Employee at any time and for any reason; provided that, unless otherwise provided herein, either party shall be required to give the other party at least ten (10) days advance written notice of any termination of the Employee’s employment. Upon termination of the Employee’s employment during the Employment Term, the Employee shall be entitled to the compensation and benefits described in this Section 5 and shall have no further rights to any compensation or any other benefits from the Company or any of its affiliates.

5.1 **Expiration of the Term, For Cause or Without Good Reason.**

(a) The Employee’s employment hereunder may be terminated upon either party’s failure to renew the Agreement in accordance with Section 1, by the Company for Cause or by the Employee without Good Reason. If the Employee’s employment is terminated upon either party’s failure to renew the Agreement, by the Company for Cause or by the Employee without Good Reason, the Employee shall be entitled to receive within two (2) weeks following the Termination Date (as defined below):

- (i) any accrued but unpaid Base Salary and accrued but unused vacation which shall be paid;
- (ii) reimbursement for unreimbursed business expenses properly incurred by the Employee, which shall be subject to and paid in accordance with the Company’s expense reimbursement policy; and
- (iii) such employee benefits (including equity compensation), if any, to which the Employee may be entitled under the Company’s employee benefit plans as of the Termination Date; provided that, in no event shall the Employee be entitled to any payments in the nature of severance or termination payments except as specifically provided herein.

Items 5.1(a)(i) through 5.1(a)(iv) are referred to herein collectively as the “**Accrued Amounts**”.

(b) For purposes of this Agreement, “**Cause**” shall mean:

- (i) the willful, substantial and continuing failure of the Employee, after specific written notice thereof, to render services to the Company in accordance with the terms or requirements of employment, which is not cured within thirty (30) days of such notice;
- (ii) the Employee’s willful failure to attempt in good faith to implement a clear, reasonable valid and legal directive of the Board;
- (iii) the Employee’s engagement in dishonesty, illegal conduct, or misconduct, which is, in each case, materially injurious to the Company or its affiliates;
- (iv) the Employee’s embezzlement, misappropriation, or fraud related to the Employee’s employment with the Company;

- (v) the Employee’s conviction of or plea of guilty or nolo contendere to a crime that constitutes a felony (or state law equivalent) or a crime that constitutes a misdemeanor involving moral turpitude;
- (vi) the Employee’s deliberate disregard of the written rules or policies of the Company which is, in each case, materially injurious to the Company or its affiliates;
- (vii) the Employee’s willful unauthorized disclosure of Confidential Information (as defined below) in a manner not reasonably believed to be in furtherance of the interests of the Company, and which is, in each case, materially injurious to the Company or its affiliates; or
- (viii) the Employee’s willful and material breach of any material obligation under this Agreement or any other written agreement between the Employee and the Company, which breach is not cured in all material respects within 30 days of specific written notice with respect thereto.

(c) For purposes of this Agreement, “**Good Reason**” shall mean the occurrence of any of the following, in each case during the Employment Term without the Employee’s written consent:

- (i) a material decrease in the Employee’s Base Salary (other than a general reduction in Base Salary that affects all similarly situated employees in substantially the same proportions);
- (ii) a material reduction in your authority, duties or responsibilities;
- (iii) a relocation of your principal place of employment with the Company to a place that increases your one-way commute by more than fifty (50) miles as compared to your then-current principal place of employment immediately prior to such relocation (excluding regular travel in the ordinary course of business);
- (iv) any material breach by the Company of any material provision of this Agreement or any material provision of any other agreement between the Employee and the Company;

The Employee cannot terminate Employee’s employment for Good Reason unless Employee has provided written notice to the Company of the existence of the circumstances providing grounds for termination for Good Reason within ninety (90) days of learning of the initial existence of such grounds and the Company has thirty (30) days from the date on which such notice is provided to cure such circumstances. If the Employee does not terminate Employee’s employment for Good Reason within ninety (90) days after the first occurrence of the applicable grounds, then the Employee will be deemed to have waived Employee’s right to terminate for Good Reason with respect to such grounds.

5.2 Termination Without Cause or for Good Reason. The Employment Term and the Employee's employment hereunder may be terminated by the Employee for Good Reason or by the Company without Cause. In the event of such termination, the Employee shall be entitled to receive the Accrued Amounts and subject to the Employee's compliance with Section 6, Section 7, Section 8, and Section 9 of this Agreement and the Employee's execution of a release of claims in favor of the Company, its affiliates and their respective officers and directors in a form provided by the Company (the "**Release**") and such Release becoming effective within 60 days following the Termination Date (such 60-day period, the "**Release Execution Period**"), the Employee shall be entitled to receive the following:

- (a) equal installment payments payable in accordance with the Company's normal payroll practices, but no less frequently than monthly, which are in the aggregate equal to the Employee's Base Salary for the year in which the Termination Date occurs, which shall begin within ten (10) days following the Termination Date; provided that, the first installment payment shall include all amounts that would otherwise have been paid to the Employee during the period beginning on the Termination Date and ending twelve (12) months thereafter;
- (b) An amount equal to Employee's target Annual Bonus for the year in which the termination takes place, with all criterion for such Annual Bonus deemed to be achieved
- (c) Vesting of (i) an additional 12 months (removing any cliff) under all time-based vesting schedules for equity based incentives held by Employee and (III) 25% of any shares underlying equity incentives, the vesting of which is based on meeting specific milestones;
- (d) the Company shall reimburse the Employee for up to \$2,500 of the monthly U.S. health insurance premium paid by the Employee for himself and his dependents. Such reimbursement shall be paid to the Employee on the tenth of the month immediately following the month in which the Employee timely remits the premium payment. The Employee shall be eligible to receive such reimbursement until the earliest of: (i) the 2-month anniversary of the Termination Date; (ii) the date the Employee is no longer eligible to receive COBRA continuation coverage; and (iii) the date on which the Employee becomes eligible to receive health insurance coverage from another employer or other source. Notwithstanding the foregoing, if the Company's making payments under this Section 5.2(d) would violate the nondiscrimination rules applicable to non-grandfathered plans under the Affordable Care Act (the "**ACA**"), or result in the imposition of penalties under the ACA and the related regulations and guidance promulgated thereunder, the parties agree to reform this Section 5.2(b) in a manner as is necessary to comply with the ACA.

5.3 Death or Disability.

- (a) The Employee's employment hereunder shall terminate automatically upon the Employee's death during the Employment Term, and the Company may terminate the Employee's employment on account of the Employee's Disability.
- (b) If the Employee's employment is terminated during the Employment Term on account of the Employee's death or Disability, the Employee (or the Employee's estate and/or beneficiaries, as the case may be) shall be entitled to receive the Accrued Amounts. Notwithstanding any other provision contained herein, all payments made in connection with the Employee's Disability shall be provided in a manner which is consistent with federal and state law.
- (c) For purposes of this Agreement, "**Disability**" shall mean the Employee's inability, due to physical or mental incapacity, to perform the essential functions of Employee's job, with or without reasonable accommodation, for one hundred eighty (180) days out of any three hundred sixty-five (365) day period or one hundred twenty (120) consecutive days. Any question as to the existence of the Employee's Disability as to which the Employee and the Company cannot agree shall be determined in writing by a qualified independent physician mutually acceptable to the Employee and the Company. If the Employee and the Company cannot agree as to a qualified independent physician, each shall appoint such a physician and those two physicians shall select a third who shall make such determination in writing. The determination of Disability made in writing to the Company and the Employee shall be final and conclusive for all purposes of this Agreement.

5.4 Notice of Termination. Any termination of the Employee's employment hereunder by the Company or by the Employee during the Employment Term (other than termination pursuant to Section 5.3(a) on account of the Employee's death) shall be communicated by written notice of termination ("**Notice of Termination**") to the other party hereto in accordance with Section 27. The Notice of Termination shall specify:

- (a) The termination provision of this Agreement relied upon;
- (b) To the extent applicable, the facts and circumstances claimed to provide a basis for termination of the Employee's employment under the provision so indicated; and
- (c) The applicable Termination Date.

5.5 Termination Date. The Employee's "**Termination Date**" shall be:

- (a) If the Employee's employment hereunder terminates on account of the Employee's death, the date of the Employee's death;
- (b) If the Employee's employment hereunder is terminated on account of the Employee's Disability, the date that it is determined that the Employee has a Disability;
- (c) If the Company terminates the Employee's employment hereunder for Cause, the date the Notice of Termination is delivered to the Employee;
- (d) If the Company terminates the Employee's employment hereunder without Cause, the date specified in the Notice of Termination, which shall be no less than ten (10) days following the date on which the Notice of Termination is delivered; provided that, the Company shall have the option to provide the Employee with a lump sum payment equal to five (5) days' Base Salary in lieu of such notice, which shall be paid in a lump sum on the Employee's Termination Date and for all purposes of this Agreement, the Employee's Termination Date shall be the date on which such Notice of Termination is delivered;
- (e) If the Employee terminates Employee's employment hereunder with or without Good Reason, the date specified in the Employee's Notice of Termination, which shall be no less than ten (10) days following the date on which the Notice of Termination is delivered; provided that, the Company may waive all or any part of the notice period for no consideration by giving written notice to the Employee and for all purposes of this Agreement, the Employee's Termination Date shall be the date determined by the Company; and

Notwithstanding anything contained herein, the Termination Date shall not occur until the date on which the Employee incurs a "separation from service" within the meaning of Section 409A.

5.6 Resignation of All Other Positions. Upon termination of the Employee's employment hereunder for any reason, the Employee shall be deemed to have resigned from all positions that the Employee holds as an officer or member of the Board (or a committee thereof) of the Company or any of its affiliates (unless otherwise agreed to by a majority of the Board).

5.9 Section 280G.

(a) If any of the payments or benefits received or to be received by the Employee (including, without limitation, any payment or benefits received in connection with a Change in Control or the Employee's termination of employment, whether pursuant to the terms of this Agreement or any other plan, arrangement, or agreement, or otherwise) (all such payments collectively referred to herein as the "**280G Payments**") constitute "parachute payments" within the meaning of Section 280G of the Code and would, but for this Section 5.9, be subject to the excise tax imposed under Section 4999 of the Code (the "**Excise Tax**"), then such 280G Payments shall be reduced in a manner determined by the Company (by the minimum possible amounts) that is consistent with the requirements of Section 409A solely to the extent that, and only until, the amount to be received by the Executive after giving effect to such Excise Tax is greater than the amount that would be received by the Executive as a result of additional reductions in the payment (e.g. a valley provision)

(b) All calculations and determinations under this Section 5.9 shall be made by an independent accounting firm or independent tax counsel appointed by the Company (the "**Tax Counsel**") whose determinations shall be conclusive and binding on the Company and the Employee for all purposes. For purposes of making the calculations and determinations required by this Section 5.9, the Tax Counsel may rely on reasonable, good faith assumptions and approximations concerning the application of Section 280G and Section 4999 of the Code. The Company and the Employee shall furnish the Tax Counsel with such information and documents as the Tax Counsel may reasonably request in order to make its determinations under this Section 5.9. The Company shall bear all costs the Tax Counsel may reasonably incur in connection with its services.

6. Cooperation. The parties agree that certain matters in which the Employee will be involved during the Employment Term may necessitate the Employee's cooperation in the future. Accordingly, following the termination of the Employee's employment for any reason, to the extent reasonably requested by the Board, the Employee shall cooperate with the Company in connection with matters arising out of the Employee's service to the Company; provided that, the Company shall make reasonable efforts to minimize disruption of the Employee's other activities. The Company shall reimburse the Employee for reasonable expenses incurred in connection with such cooperation and, to the extent that the Employee is required to spend substantial time on such matters, the Company shall compensate the Employee at an hourly rate based on the Employee's Base Salary on the Termination Date.

7. Confidential Information. The Employee understands and acknowledges that during the Employment Term, Employee will have access to and learn about Confidential Information, as defined below.

7.1 Confidential Information Defined.

(a) Definition.

For purposes of this Agreement, "**Confidential Information**" includes, but is not limited to, all information not generally known to the public, in spoken, printed, electronic or any other form or medium, including that relating directly or indirectly to: business processes, practices, methods, policies, plans, publications, documents, research, operations, services, strategies, techniques, agreements, contracts, terms of agreements, transactions, potential transactions, negotiations, pending negotiations, know-how, trade secrets, computer programs, computer software, applications, operating systems, software design, web design, work-in-process, databases, manuals, records, articles, systems, material, sources of material, supplier information, vendor information, financial information, results, accounting information, accounting records, legal information, marketing information, advertising information, pricing information, credit information, design information, payroll information, staffing information, personnel information, employee lists, supplier lists, vendor lists, developments, reports, internal controls, security procedures, graphics, drawings, sketches, market studies, sales information, revenue, costs, formulae, notes, communications, algorithms, product plans, designs, styles, models, ideas, audiovisual programs, inventions, unpublished patent applications, original works of authorship, discoveries, experimental processes, experimental results, specifications, customer information, customer lists, client information, client lists, manufacturing information, factory lists, distributor lists, and buyer lists of the Company Group or its businesses or any existing or prospective customer, supplier, investor or other associated third party, or of any other person or entity that has entrusted information to the Company Group in confidence.

The Employee understands that the above list is not exhaustive, and that Confidential Information also includes other information that is marked or otherwise identified as confidential or proprietary, or that would otherwise appear to a reasonable person to be confidential or proprietary in the context and circumstances in which the information is known or used.

The Employee understands and agrees that Confidential Information includes information developed by Employee in the course of Employee's employment by the Company as if the Company furnished the same Confidential Information to the Employee in the first instance. Confidential Information shall not include information that is generally available to and known by the public at the time of disclosure to the Employee; provided that, such disclosure is through no direct or indirect fault of the Employee or person(s) acting on the Employee's behalf.

(b) Company Creation and Use of Confidential Information.

The Employee understands and acknowledges that the Company and its affiliates (the "**Group**") have invested, and continue to invest, substantial time, money, and specialized knowledge into developing their resources, creating a customer base, generating customer and potential customer lists, training its employees, and improving its offerings and business. The Employee understands and acknowledges that as a result of these efforts, they have created, and continue to use and create Confidential Information. This Confidential Information provides them with a competitive advantage over others in the marketplace.

(c) Disclosure and Use Restrictions.

The Employee agrees and covenants: (i) to treat all Confidential Information as strictly confidential; (ii) not to directly or indirectly disclose, publish, communicate, or make available Confidential Information, or allow it to be disclosed, published, communicated, or made available, in whole or part, to any entity or person whatsoever (including other employees of the Group) not having a need to know and authority to know and use the Confidential Information in connection with the business of the Group and, in any event, not to anyone outside of the direct employ of the Group except as required in the performance of the Employee's authorized employment duties to the Company or with the prior consent of the Board acting on behalf of the Group in each instance (and then, such disclosure shall be made only within the limits and to the extent of such duties or consent); and (iii) not to access or use any Confidential Information, and not to copy any documents, records, files, media, or other resources containing any Confidential Information, or remove any such documents, records, files, media, or other resources from the premises or control of the Group, except as

required in the performance of the Employee's authorized employment duties to the Company or with the prior consent of the Board acting on behalf of the Group in each instance (and then, such disclosure shall be made only within the limits and to the extent of such duties or consent). Nothing herein shall be construed to prevent disclosure of Confidential Information as may be required by applicable law or regulation, or pursuant to the valid order of a court of competent jurisdiction or an authorized government agency, provided that the disclosure does not exceed the extent of disclosure required by such law, regulation, or order. The Employee shall promptly provide written notice of any such order to the Board.

8. Restrictive Covenants.

8.1 Acknowledgement. The Employee understands that the nature of the Employee's position gives Employee access to and knowledge of Confidential Information and places Employee in a position of trust and confidence with the Group. The Employee understands and acknowledges that the intellectual or artistic and other services Employee provides to the Group are unique, special, or extraordinary because of the unique nature of the automotive and manufacturing industries.

The Employee further understands and acknowledges that the Group's ability to reserve these for the exclusive knowledge and use of the Group is of great competitive importance and commercial value to the Group, and that improper use or disclosure by the Employee is likely to result in unfair or unlawful competitive activity.

8.2 Generally unenforceable in CA

Nothing herein shall prohibit the Employee from purchasing or owning less than five percent (5%) of the publicly traded securities of any corporation, provided that such ownership represents a passive investment and that the Employee is not a controlling person of, or a member of a group that controls, such corporation.

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This Section 8 does not, in any way, restrict or impede the Employee from exercising protected rights to the extent that such rights cannot be waived by agreement or from complying with any applicable law or regulation or a valid order of a court of competent jurisdiction or an authorized government agency, provided that such compliance does not exceed that required by the law, regulation, or order. The Employee shall promptly provide written notice of any such order to the Board.

8.3 Non-Solicitation of Employees. The Employee agrees and covenants not to directly or indirectly solicit, hire, recruit, attempt to hire or recruit, or induce the termination of employment of any employee of the Group during eighteen (18) months, to run consecutively, beginning on the last day of the Employee's employment with the Company; provided however that this Section 8.3 does not apply to any such employee that responds to a position opening that is generally advertised and not targeted towards such individual or any employee that contacts Employee without first being directly or indirectly contacted by Employee.

8.4 Non-Solicitation of Customers. The Employee understands and acknowledges that because of the Employee's experience with and relationship to the Group, Employee will have access to and learn about much or all of the Group's customer information. "**Customer Information**" includes, but is not limited to, names, phone numbers, addresses, e-mail addresses, order history, order preferences, chain of command, pricing information, and other information identifying facts and circumstances specific to the customer and relevant to sales and/or services.

The Employee understands and acknowledges that loss of this customer relationship and/or goodwill will cause significant and irreparable harm.

The Employee agrees and covenants, during eighteen (18) months, to run consecutively, beginning on the last day of the Employee's employment with the Company, not to directly or indirectly solicit, contact (including but not limited to e-mail, regular mail, express mail, telephone, fax, and instant message), attempt to contact, or meet with the Company's current, customers for purposes of offering or accepting goods or services similar to or competitive with those offered by the Company.

9. Non-Disparagement. The Employee and Company each agree and covenants that such party will not at any time make, publish or communicate to any person or entity or in any public forum any defamatory or disparaging remarks, comments, or statements concerning the Group or its businesses, or any of its employees, officers, and investors and other associated third parties or the Employee.

This Section 9 does not, in any way, restrict or impede the Employee from exercising protected rights to the extent that such rights cannot be waived by agreement or from complying with any applicable law or regulation or a valid order of a court of competent jurisdiction or an authorized government agency, provided that such compliance does not exceed that required by the law, regulation, or order. The Employee shall promptly provide written notice of any such order to the Board.

10. Acknowledgement. The Employee acknowledges and agrees that the services to be rendered by Employee to the Company are of a special and unique character; that the Employee will obtain knowledge and skill relevant to the Company's industry, methods of doing business and marketing strategies by virtue of the Employee's employment; and that the restrictive covenants and other terms and conditions of this Agreement are reasonable and reasonably necessary to protect the legitimate business interest of the Group.

The Employee further acknowledges that the amount of Employee's compensation reflects, in part, Employee's obligations and the Company's rights under Section 7, Section 8, and Section 9 of this Agreement; that Employee has no expectation of any additional compensation, royalties or other payment of any kind not otherwise referenced herein in connection herewith; and that Employee will not be subject to undue hardship by reason of Employee's full compliance with the terms and conditions of Section 7, Section 8, and Section 9 of this Agreement or the Company's enforcement thereof.

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11. RESERVED

12. Arbitration. Any dispute, controversy, or claim arising out of or related to this Agreement or any breach of this Agreement shall be submitted to and decided by binding arbitration. Arbitration shall be administered exclusively by the American Arbitration Association under its Employment Arbitration Rules and Mediation Procedures and judgment upon the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof. Any arbitral award determination shall be final and binding upon the parties.

13. Proprietary Rights.

13.1 Work Product. The Employee acknowledges and agrees that all right, title, and interest in and to all writings, works of authorship, technology, inventions, discoveries, processes, techniques, methods, ideas, concepts, research, proposals, materials, and all other work product of any nature whatsoever, that are created, prepared, produced, authored, edited, amended, conceived, or reduced to practice by the Employee individually or jointly with others during the period of Employee's employment by the Company and relate in any way to the business or contemplated business, products, activities, research, or development of the Company or result from any work performed by the Employee for the Company (in each case, regardless of when or where prepared or whose equipment or other resources is used in preparing the same), all rights and claims related to the foregoing, and all printed, physical and electronic copies, and other tangible embodiments thereof (collectively, "**Work Product**"), as well as any and all rights in and to US and foreign (a) patents, patent disclosures and inventions (whether patentable or not), (b) trademarks, service marks, trade dress, trade names, logos, corporate

names, and domain names, and other similar designations of source or origin, together with the goodwill symbolized by any of the foregoing, (c) copyrights and copyrightable works (including computer programs), mask works, and rights in data and databases, (d) trade secrets, know-how, and other confidential information, and (e) all other intellectual property rights, in each case whether registered or unregistered and including all registrations and applications for, and renewals and extensions of, such rights, all improvements thereto and all similar or equivalent rights or forms of protection in any part of the world (collectively, “**Intellectual Property Rights**”), shall be the sole and exclusive property of the Company.

For purposes of this Agreement, Work Product includes, but is not limited to, Group information, including plans, publications, research, strategies, techniques, agreements, documents, contracts, terms of agreements, negotiations, know-how, computer programs, computer applications, software design, web design, work in process, databases, manuals, results, developments, reports, graphics, drawings, sketches, market studies, formulae, notes, communications, algorithms, product plans, product designs, styles, models, audiovisual programs, inventions, unpublished patent applications, original works of authorship, discoveries, experimental processes, experimental results, specifications, customer information, client information, customer lists, client lists, manufacturing information, marketing information, advertising information, and sales information.

13.2 Work Made for Hire; Assignment. The Employee acknowledges that, by reason of being employed by the Company at the relevant times, to the extent permitted by law, all of the Work Product consisting of copyrightable subject matter is “work made for hire” as defined in 17 U.S.C. § 101 and such copyrights are therefore owned by the Company. To the extent that the foregoing does not apply, the Employee hereby irrevocably assigns to the Company, for no additional consideration, the Employee’s entire right, title, and interest in and to all Work Product and Intellectual Property Rights therein, including the right to sue, counterclaim, and recover for all past, present, and future infringement, misappropriation, or dilution thereof, and all rights corresponding thereto throughout the world. Nothing contained in this Agreement shall be construed to reduce or limit the Company’s rights, title, or interest in any Work Product or Intellectual Property Rights so as to be less in any respect than that the Company would have had in the absence of this Agreement.

13.3 Further Assurances; Power of Attorney. During and after Employee’s employment, the Employee agrees to reasonably cooperate with the Company to (a) apply for, obtain, perfect, and transfer to the Company the Work Product as well as any and all Intellectual Property Rights in the Work Product in any jurisdiction in the world; and (b) maintain, protect and enforce the same, including, without limitation, giving testimony and executing and delivering to the Company any and all applications, oaths, declarations, affidavits, waivers, assignments, and other documents and instruments as shall be requested by the Company. The Employee hereby irrevocably grants the Company power of attorney to execute and deliver any such documents on the Employee’s behalf in Employee’s name and to do all other lawfully permitted acts to transfer the Work Product to the Company and further the transfer, prosecution, issuance, and maintenance of all Intellectual Property Rights therein, to the full extent permitted by law, if the Employee is physically unable to cooperate with the Company’s request (without limiting the rights the Company shall have in such circumstances by operation of law). The power of attorney is coupled with an interest and shall not be affected by the Employee’s subsequent incapacity.

13.4 No License. The Employee understands that this Agreement does not, and shall not be construed to, grant the Employee any license or right of any nature with respect to any Work Product or Intellectual Property Rights or any Confidential Information, materials, software, or other tools made available to Employee by the Company.

14. Security.

14.1 Security and Access. The Employee agrees and covenants (a) to comply with all Group security policies and procedures as in force from time to time including without limitation those regarding computer equipment, telephone systems, voicemail systems, facilities access, monitoring, key cards, access codes, Group intranet, internet, social media and instant messaging systems, computer systems, e-mail systems, computer networks, document storage systems, software, data security, encryption, firewalls, passwords and any and all other Group facilities, IT resources and communication technologies (“**Facilities and Information Technology Resources**”); (b) not to access or use any Facilities and Information Technology Resources except as authorized by the Company; and (iii) not to access or use any Facilities and Information Technology Resources in any manner after the termination of the Employee’s employment by the Company, whether termination is voluntary or involuntary. The Employee agrees to notify the Company promptly in the event Employee learns of any violation of the foregoing by others, or of any other misappropriation or unauthorized access, use, reproduction, or reverse engineering of, or tampering with any Facilities and Information Technology Resources or other Group property or materials by others.

14.2 Exit Obligations. Upon (a) voluntary or involuntary termination of the Employee’s employment or (b) the Company’s request at any time during the Employee’s employment, the Employee shall (i) provide or return to the Company any and all Group property, including keys, key cards, access cards, identification cards, security devices, employer credit cards, network access devices, computers, cell phones, smartphones, PDAs, pagers, fax machines, equipment, speakers, webcams, manuals, reports, files, books, compilations, work product, e-mail messages, recordings, tapes, disks, thumb drives or other removable information storage devices, hard drives, negatives, and data and all Group documents and materials belonging to the Company and stored in any fashion, including but not limited to those that constitute or contain any Confidential Information or Work Product, that are in the possession or control of the Employee, whether they were provided to the Employee by the Group or any of its business associates or created by the Employee in connection with Employee’s employment by the Company; and (ii) delete or destroy all copies of any such documents and materials not returned to the Company that remain in the Employee’s possession or control, including those stored on any non- Group devices, networks, storage locations, and media in the Employee’s possession or control.

15. Publicity. The Employee hereby irrevocably consents to any and all good faith, reasonable uses and displays, by the Group and its agents, representatives and licensees, of the Employee’s name, voice, likeness, image, appearance, and biographical information in, on or in connection with any pictures, photographs, audio and video recordings, digital images, websites, television programs and advertising, other advertising and publicity, sales and marketing brochures, books, magazines, other publications, CDs, DVDs, tapes, and all other printed and electronic forms and media throughout the world, at any time during or after the period of Employee’s employment by the Company, for all legitimate commercial and business purposes of the Group (“**Permitted Uses**”) without further consent from or royalty, payment, or other compensation to the Employee. The Employee hereby forever waives and releases the Group and its directors, officers, employees, and agents from any and all claims, actions, damages, losses, costs, expenses, and liability of any kind, arising under any legal or equitable theory whatsoever at any time during or after the period of Employee’s employment by the Company, arising directly or indirectly from the Group’s and its agents’, representatives’, and licensees’ exercise of their rights in connection with any Permitted Uses.

16. Governing Law; Jurisdiction and Venue. This Agreement, for all purposes, shall be construed in accordance with the laws of California without regard to conflicts of law principles. To the extent that any action or proceeding by either of the parties to enforce this Agreement is not brought in accordance the arbitration provisions of Section 12 hereof, they shall be brought exclusively in a state or federal court located in Santa Clara County, CA. The parties hereby irrevocably submit to the exclusive jurisdiction of such courts and waive the defense of inconvenient forum to the maintenance of any such action or proceeding in such venue.

17. Entire Agreement. Unless specifically provided herein, this Agreement contains all of the understandings and representations between the Employee and the Company pertaining to the subject matter hereof and supersedes all prior and contemporaneous understandings, agreements, representations and warranties, both written and oral, with respect to such subject matter. The parties mutually agree that the Agreement can be specifically enforced in court and can be cited as evidence in legal proceedings alleging breach of the Agreement.

19. Modification and Waiver. No provision of this Agreement may be amended or modified unless such amendment or modification is agreed to in writing and signed by the Employee and by the Chairman of the Company's Board of Directors as directed by the Board and/or the Compensation Committee. No waiver by either of the parties of any breach by the other party hereto of any condition or provision of this Agreement to be performed by the other party hereto shall be deemed a waiver of any similar or dissimilar provision or condition at the same or any prior or subsequent time, nor shall the failure of or delay by either of the parties in exercising any right, power, or privilege hereunder operate as a waiver thereof to preclude any other or further exercise thereof or the exercise of any other such right, power, or privilege.

20. Severability. Should any provision of this Agreement be held by a court of competent jurisdiction (or pursuant to arbitration under Section 12) to be enforceable only if modified, or if any portion of this Agreement shall be held as unenforceable and thus stricken, such holding shall not affect the validity of the remainder of this Agreement, the balance of which shall continue to be binding upon the parties with any such modification to become a part hereof and treated as though originally set forth in this Agreement.

The parties further agree that any such court is expressly authorized to modify any such unenforceable provision of this Agreement in lieu of severing such unenforceable provision from this Agreement in its entirety, whether by rewriting the offending provision, deleting any or all of the offending provision, adding additional language to this Agreement, or by making such other modifications as it deems warranted to carry out the intent and agreement of the parties as embodied herein to the maximum extent permitted by law.

The parties expressly agree that this Agreement as so modified shall be binding upon and enforceable against each of them. In any event, should one or more of the provisions of this Agreement be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provisions hereof, and if such provision or provisions are not modified as provided above, this Agreement shall be construed as if such invalid, illegal, or unenforceable provisions had not been set forth herein.

21. Captions. Captions and headings of the sections and paragraphs of this Agreement are intended solely for convenience and no provision of this Agreement is to be construed by reference to the caption or heading of any section or paragraph.

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22. Counterparts. This Agreement may be executed in separate counterparts, each of which shall be deemed an original, but all of which taken together shall constitute one and the same instrument.

23. Tolling. Should the Employee violate any of the terms of the restrictive covenant obligations articulated herein, the obligation at issue will run from the first date on which the Employee ceases to be in violation of such obligation.

24. Section 409A.

24.1 General Compliance. This Agreement is intended to comply with Section 409A or an exemption thereunder and shall be construed and administered in accordance with Section 409A. Notwithstanding any other provision of this Agreement, payments provided under this Agreement may only be made upon an event and in a manner that complies with Section 409A or an applicable exemption. Any payments under this Agreement that may be excluded from Section 409A either as separation pay due to an involuntary separation from service or as a short-term deferral shall be excluded from Section 409A to the maximum extent possible. For purposes of Section 409A, each installment payment provided under this Agreement shall be treated as a separate payment. Any payments to be made under this Agreement upon a termination of employment shall only be made upon a "separation from service" under Section 409A. Notwithstanding the foregoing, the Company makes no representations that the payments and benefits provided under this Agreement comply with Section 409A, and in no event shall the Company be liable for all or any portion of any taxes, penalties, interest, or other expenses that may be incurred by the Employee on account of non-compliance with Section 409A.

24.2 Specified Employees. Notwithstanding any other provision of this Agreement, if any payment or benefit provided to the Employee in connection with Employee's termination of employment is determined to constitute "nonqualified deferred compensation" within the meaning of Section 409A and the Employee is determined to be a "specified employee" as defined in Section 409A(a)(2)(b)(i), then such payment or benefit shall not be paid until the first payroll date to occur following the six-month anniversary of the Termination Date or, if earlier, on the Employee's death (the "**Specified Employee Payment Date**"). The aggregate of any payments that would otherwise have been paid before the Specified Employee Payment Date and interest on such amounts calculated based on the applicable federal rate published by the Internal Revenue Service for the month in which the Employee's separation from service occurs shall be paid to the Employee in a lump sum on the Specified Employee Payment Date and thereafter, any remaining payments shall be paid without delay in accordance with their original schedule.

24.3 Reimbursements. To the extent required by Section 409A, each reimbursement or in-kind benefit provided under this Agreement shall be provided in accordance with the following:

- (a) the amount of expenses eligible for reimbursement, or in-kind benefits provided, during each calendar year cannot affect the expenses eligible for reimbursement, or in-kind benefits to be provided, in any other calendar year;
- (b) any reimbursement of an eligible expense shall be paid to the Employee on or before the last day of the calendar year following the calendar year in which the expense was incurred; and
- (c) any right to reimbursements or in-kind benefits under this Agreement shall not be subject to liquidation or exchange for another benefit.

24.4 Tax Gross-ups. Any tax gross-up payments provided under this Agreement shall be paid to the Employee on or before December 31 of the calendar year immediately following the calendar year in which the Employee remits the related taxes.

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25. Notification to Subsequent Employer. When the Employee's employment with the Company terminates, the Employee agrees to notify any subsequent employer of the restrictive covenants sections contained in this Agreement. The Employee will also deliver a copy of such notice to the Company before the Employee commences employment with any subsequent employer. In addition, the Employee authorizes the Company to provide a copy of the restrictive covenants sections of this Agreement to third parties, including but not limited to, the Employee's subsequent, anticipated, or possible future employer.

26. Successors and Assigns. This Agreement is personal to the Employee and shall not be assigned by the Employee. Any purported assignment by the Employee shall be null and void from the initial date of the purported assignment. The Company may assign this Agreement to any successor or assign (whether direct or indirect, by purchase, merger, consolidation, or otherwise) to all or substantially all of the business or assets of the Company. This Agreement shall inure to the benefit of the Company and permitted successors and assigns.

27. Notice. Notices and all other communications provided for in this Agreement shall be in writing and shall be delivered personally or sent by registered or certified mail, return receipt requested, or by overnight carrier to the parties at the addresses set forth below (or such other addresses as specified by the parties by like notice):

If to the Company:

Mainz Biomed N.V.
Sirius GutenbergPark, Robert-Koch-Straße 50
55129 Mainz, Germany

guido.baechler@mainzbiomed.com
Attn: Guido Baechler, CEO

If to the Employee:

William J. Caragol
bill@quidemllc.com

28. Representations of the Employee. The Employee represents and warrants to the Company that:

The Employee's acceptance of employment with the Company and the performance of Employee's duties hereunder will not conflict with or result in a violation of, a breach of, or a default under any contract, agreement, or understanding to which Employee is a party or is otherwise bound. The Employee's acceptance of employment with the Company and the performance of Employee's duties hereunder will not violate any non-solicitation, non-competition, or other similar covenant or agreement of a prior employer.

29. Withholding. The Company shall have the right to withhold from any amount payable hereunder any Federal, state, and local taxes in order for the Company to satisfy any withholding tax obligation it may have under any applicable law or regulation.

30. Survival. Upon the expiration or other termination of this Agreement, the respective rights and obligations of the parties hereto shall survive such expiration or other termination to the extent necessary to carry out the intentions of the parties under this Agreement.

31. Acknowledgement of Full Understanding. THE EMPLOYEE ACKNOWLEDGES AND AGREES THAT EMPLOYEE HAS FULLY READ, UNDERSTANDS AND VOLUNTARILY ENTERS INTO THIS AGREEMENT. THE EMPLOYEE ACKNOWLEDGES AND AGREES THAT EMPLOYEE HAS HAD AN OPPORTUNITY TO ASK QUESTIONS AND CONSULT WITH AN ATTORNEY OF EMPLOYEE'S CHOICE BEFORE SIGNING THIS AGREEMENT.

32. Expenses. Should Employee reasonably determine in the future that any request by the Company makes it desirable for the Employee to obtain individual counsel, Company shall reimburse the reasonable fees and expenses incurred by the Employee for any such advice.

[Signature Page Follows]

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the date first above written.

Mainz Biomed N.V.

By: /s/ Guido Baechler
Name: Guido Baechler
Title: Chief Executive Officer

EMPLOYEE

Signature: /s/ William Caragol
Print Name: William J. Caragol

Certification

I, Guido Baechler, certify that:

1. I have reviewed this Annual Report on Form 20-F of Mainz Biomed N.V.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The Company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Company's internal control over financial reporting.

Date: May 2, 2022

/s/ Guido Baechler

Guido Baechler

Title: Chief Executive Officer

Certification

I, William Caragol, certify that:

1. I have reviewed this Annual Report on Form 20-F of Mainz Biomed N.V.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the company as of, and for, the periods presented in this report;
4. The company's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the company and have:
 - (a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the company, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - (b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - (c) Evaluated the effectiveness of the company's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - (d) Disclosed in this report any change in the company's internal control over financial reporting that occurred during the period covered by the annual report that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting; and
5. The Company's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the company's auditors and the audit committee of the company's board of directors (or persons performing the equivalent functions):
 - (a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the company's ability to record, process, summarize and report financial information; and
 - (b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the Company's internal control over financial reporting.

Date: May 2, 2022

/s/ William Caragol

William Caragol

Title: Chief Financial Officer

Certification Pursuant to 18 U.S.C. Section 1350

For purposes of 18 U.S.C. Section 1350, the undersigned officer of Mainz Biomed N.V., a company incorporated under the laws of the Netherlands (the “Company”), hereby certifies, to such officer’s knowledge, that:

- (i) the Annual Report on Form 20-F of the Company for the year ended December 31, 2021 (the “Report”) fully complies with the requirements of section 13(a) or 15(d) as applicable, of the Securities Exchange Act of 1934; and
- (ii) the information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Company.

Date: May 2, 2022

/s/ Guido Baechler

Guido Baechler

Title: Chief Executive Officer

/s/ William Caragol

William Caragol

Title: Chief Financial Officer

The foregoing certification is not deemed filed for purpose of Section 18 of the Exchange Act and not incorporated by reference with any filing under the Securities Act.