Building the New Gold Standard for Sample Processing

Spinomix is a Swiss technology platform company providing innovative sample processing solutions to the life sciences sector. Our pioneering systems capture and extract biochemical substances at a quality and efficiency far superior to current practice, thus shortening the time from sample to answer and enabling more efficient diagnostics. Based at the Ecole Polytechnique Fédérale de Lausanne (EPFL), we are working with a broad spectrum of professional partners to bring our solutions to market.

Solutions that set the new gold standard

We are building the new gold standard for the processing of biochemical substances in applications which are critical for treatment decisions in a variety of human diseases. Our solutions improve the sensitivity and time taken to obtain meaningful results from samples that are highly heterogeneous and notoriously difficult to analyse (e.g. blood, urine, swabs and food matrices). Used by major research laboratories and health sector players, our solutions are designed to fit into existing diagnostic platforms & processes, or to operate as standalone systems.

Fully owned IP portfolio

Our technology is derived from the post-doctoral work of our founders conducted at EPFL. This technology is completely owned by Spinomix, without any royalty obligations to third parties. It has been validated thanks to advanced prototypes and is protected by a core family of widely granted patents.

Targeting significant high growth markets

Today many aspects of sample processing are still labor and time intensive, and so there is a significant opportunity for new technologies to streamline the process. Our target markets are research institutes and diagnostics product development laboratories active in the fields of human health, animal health and food & environmental safety. Examples include double-digit growth markets such as nucleic acids extraction, believed to be worth $2 billion; cell separation growing to over $2.5 billion; food safety at over $2 billion; and molecular diagnostics for infectious diseases estimated at $2.7 billion.

A partnership-based business model

Our current approach is to concentrate on product innovation. We have collaboration agreements in place and are conducting validation programs of our products with key market players in research and industry. Through these programs we are continually building refinements and customer validation into our products. Our goal is to develop these collaborations into strategic commercial partnerships to license our products.

Special team of talents

Our team is led by CEO Nasri Nahas, an experienced business developer and leader of biotech start-ups; and by Amar Rida, Chief Technology Officer and founder of the company. Our talented team has proven to be successful working at the interface between industry and academia, with a rare combination of expertise in physics, biology, chemistry, mechanical & electrical engineering.

Backed by a renowned Board & knowledgeable investors

We benefit from a renowned Board of Directors with extensive expertise in our technologies, industry and target markets. To date we have raised CHF 5.5 million equity finance through a select group of private investors and with the support of Debiopharm, the Swiss-based biopharmaceutical group.

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MagPhase™: Affordable highly versatile automation at the bench

MagPhase™ brings seamless automation of complex analytical procedures to every bench. It combines in a unique system the proven industry standard magnetic beads technology with the miniaturization brought by microfluidics systems. MagPhase™ provides users with both high analytical performance and unmatched automation-driven flexibility and efficiency, thus enabling them to explore new avenues in assay processing for life science research and diagnostics. The MagPhase™ technology can vastly improve analysis wherever magnetic beads are being used today. It allows the transfer of all existing magnetic beads applications onto an easy to use low cost disposable cartridges-based system. This opens a market worth over $3 billion for a number of applications amongst which we are currently focusing on nucleic acid extraction and cell separation.

STATUS: Finalizing specifications for serial product development and manufacturing

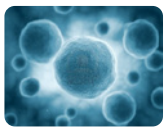
COMPETITIVE ADVANTAGES

Fully automated: integration of complex analytical procedures in an easy to use compact system.

Modular: suited to fit different throughput needs with true random-access automation capability.

Flexible/versatile: one system covering different assays, applications, sample sizes and types.

Affordable and cost efficient design: enabling automation at every bench.



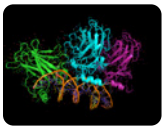
CELL SEPARATION

NUCLEIC ACID EXTRACTION

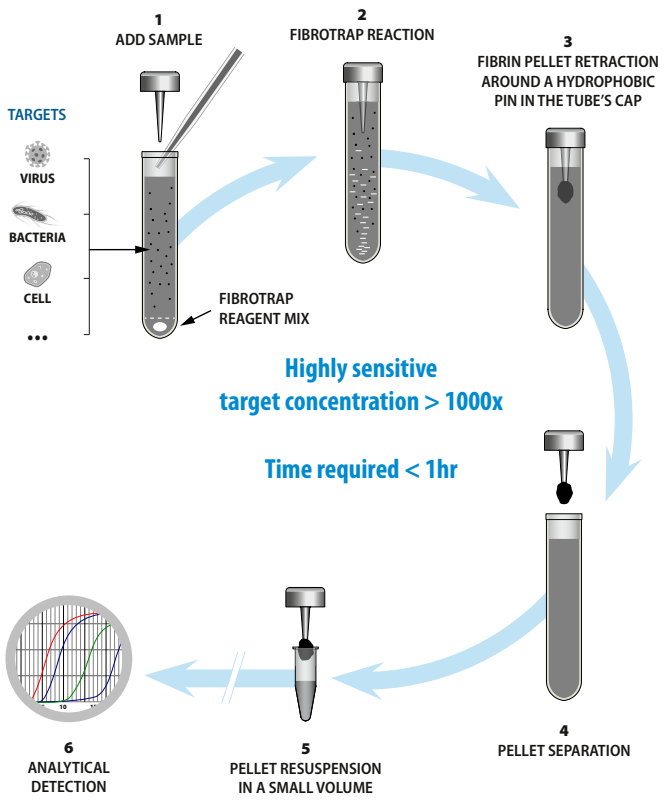
MAGPHASE™ CARTRIDGE

MAGPHASE™ SYSTEM

TEMPLATE PREPARATION FOR SEQUENCING



PROTEIN ISOLATION



FibroTrap™: Sample processing in the collection tube

FibroTrap™ is a fibrinogen-based technology allowing the highly specific separation and efficient concentration of target molecules from liquid samples within a simple, routine sample collection tube. This greatly simplifies the sample processing workflow, improves sensitivity and significantly shortens the time taken from sample collection to results analysis, thus enabling affordable and efficient diagnostics. The FibroTrap™ platform is applicable on a wide variety of matrices (blood, urine, swabs, food) to isolate a large spectrum of targets (bacteria, viruses, tumor cells, etc.). It is perfectly suited to high value markets like molecular diagnostics for infectious diseases, circulating cancer cell isolation and food safety. Current tests are available for MRSA and CT/NG detection.

STATUS: Platform ready for partnering in different applications

COMPETITIVE ADVANTAGES

Streamlined sample processing: seamless workflow for target isolation.

Sensitivity: setting new efficiency standards for target identification in diagnostics.

Versatile: applicable on virtually any matrix and for any target.

Time and cost efficient: key in diagnostics setup.

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