



## **Omini receives EU patent approval for electrochemical based sensor used for multiplexed blood testing platform**

### **Approval strengthens company IP portfolio - third patent was filed this year for heart failure indication**

**Paris, France, December 5, 2023** – Omini, a medtech company developing the first multiplexed blood testing platform for personalized medicine and chronic disease management, today announces the approval by European authorities of a patent for its multi-gate Organic Electro-Chemical Transistor (OECT)-based detection device comprising depolarization electrode.

Multiplex blood testing systems such as Omini's are in high demand, driven by the increasing [prevalence of chronic diseases](#), the implementation of favorable [government initiatives](#) for more efficient management of them and the rising [demand for home healthcare](#).

Omini is developing a 'point-of-care' solution that enables multiple categories of blood biomarkers to be tested at the same time, using multiplexing. Like a glucometer, the device is a portable reader combined with single-use test strips which can simultaneously measure four to ten blood biomarkers from a single capillary blood sample, providing readings in less than ten minutes from plug-in. With its portable nature, allowing it to be used in outpatient and at-home care, this device offers a solution to current tensions in the healthcare system and meets the demand for a user-friendly finger-prick system.

Omini holds an exclusive license over EU patent number EP3764092, which was co-authored by co-founder and chief technical officer Anna Shirinskaya at the Ecole Polytechnique. This patent approval is the first step in building a strong Intellectual Property (IP) portfolio for the company. The patent focuses on protecting Omini's approach to obtaining miniature multiplex sensors that can measure specific combinations of biomarkers from small fluid samples. The company is also awaiting US approval on the patent.

"We are thrilled to share this news, in which we feel a profound sense of accomplishment and satisfaction. For us, this represents a major stride towards the integration of our sensors into a miniaturized multi-sensing platform. It also brings us closer to providing healthcare professionals with a tool to effectively manage the health of chronic patients," said Anna Shirinskaya, co-founder and CTO at Omini.

"I am particularly proud of this patent. Not just for the brilliant science behind it, but because it also marks the genesis of Omini's journey. It serves as the spark that ignited our enduring commitment to innovation, leading us to develop our pioneering multiplex blood testing platform for personalized disease management," said Joanne Kaanan, co-founder and chief executive officer of Omini.

Omini also filed a patent in June 2023 to protect the first application of its solution in heart failure, a fast-growing disease nicknamed 'the silent killer'. The [European Heart Network](#) estimates that more than ten million people in the EU could be affected by heart failure and that this is set to increase due to an ageing population and comorbidity factors.

Omini is currently finalizing performance studies for its sensors on human samples. The company is also raising funds to launch its first clinical trial. Alongside this, it is working



on validating its manufacturing strategy and developing its portable reader to meet the constraints of large-scale manufacturing.

### **About Omini**

Omini is developing the first multiplexed blood testing platform for personalized medicine and chronic disease management.

The company's 'point-of-care' personalized medicine solution tests multiple categories of blood biomarkers at the same time, using multiplexing. The device combines a portable reader and single-use test strips, similar to a glucometer, simultaneously measuring four to ten blood biomarkers from a single capillary blood sample.

For use at the patient's bedside, either in outpatient care or at home, Omini's portable medical device helps to relieve the burden on healthcare systems. The device is affordable; the company has already put a great deal of thought into industrialization and has engaged with the necessary partners.

Omini is currently developing the first application of its solution in heart failure, a fast-growing disease often referred to as 'the silent killer.'

Founded in 2019, the company is based in Paris (France). It currently employs nine staff. So far, Omini has raised €2.1 million (\$2.2M) in dilutive and non-dilutive financing from six business angel networks (including BADGE and Angels Santé), Entrepreneur First and Bpifrance.

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