Our Team

LYDIE JEUX is the head of research projects in microfluidics applied to cell biology at Elvesys. She received her PhD in Biology (Immunology-Oncology) in 2013 before completing a research engineer appointment in cellular and molecular biology in CNRS. She has also been trained as a Clinical Research Associate.

AURÉLIE VIGNE is Scientific Director in microfluidics. She received her PhD from the University of Bordeaux (droplet-based microfluidics for the engineering of enzymes of therapeutic interest) in 2018. Her areas of expertise are droplet-based microfluidics and acoustofluidics. Currently she is in charge of the microfluidic aspects on different research projects in Elvesys.

NOÉMI THOMAZO is Scientific Director in microfluidics. She obtained a physical-chemical engineer degree with a specialisation in materials, and received her PhD in 2018 from Université Paris-Saclay (multiple emulsions generation for applications to encapsulation). Her areas of expertise are physical-chemistry of materials, microfluidics, and droplets generation. Currently she is in charge of the microfluidic aspects on different research projects in Elvesys.

Main contact in the project:

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Additive Manufacturing of 3D Microfluidic MEMS for Lab-on-a-Chip applications.

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Who we are

ELVESYS is an innovative company who develops and provides microfluidic chips and scientific instruments for microfluidic researches. ELVESYS now proposes the world widest brand of microfluidic flow control products. The second main mission of the company is to enhance the technological transfer of microfluidic innovations from research laboratories to medical diagnostic and cell biology market. ELVESYS management team already created four innovative companies related to microfluidic in the last five years. ELVESYS developed the FASTGENE technology which is the world fastest qPCR system. This technology was distinguished in 2014 by the Worldwide Innovation Challenge jury as one of the innovation projects that will have significant implications for the French economy, and led to the creation of a spin-off company.

ELVESYS Innovation Unit is currently involved in several research consortia to address the current challenges in the field of aging and human longevity, developing innovative tools to better understand human body and to detect and cure the diseases affecting it.

Our product & services

ELVESYS develops high performance and Plug & Play flow control systems fitted to microfluidic research under the brand Elveflow®. Our main product is the pressure controller OB1, the only microfluidic flow control system in the world to use patented piezoelectric regulators, enabling a flow control that is 20 times more precise and 10 times faster than the other flow controllers on the market.

ELVESYS is also experienced in microfabrication and soft-lithography for the production microchips made of PDMS, thermoplastics or innovative materials. We are expert in flow handling and chip design to meet our partners requirements.

ELVESYS is happy to share its expertise in microfluidics by collaborating with other research groups to develop innovative solutions, mostly for the field of biology and biotechnology, such as organ-on-chip or lab-on-chip devices, or droplets generators.