Microfluidic instruments & fluidic setups

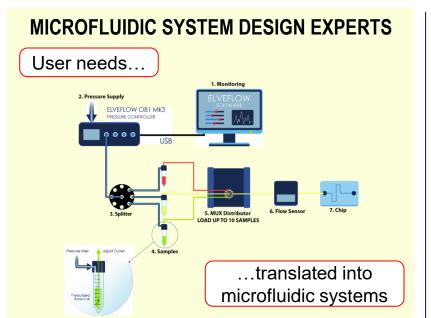
Christa Ivanova, PhD Paris, France



Who we are & our core expertise

- France SME

- Born as 'Innovation Unit' of Elvesys
- Microfluidic instruments, flow control setups, user-friendly platforms



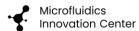






Tech skillset

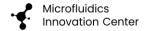
- Electronics
- Mechanics
- Pneumatics
- Software & Firmware
- Simulations
- Fluidics



Call areas of interest for us

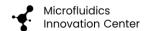
Cluster 6: Food, Bioeconomy, Natural Resources, Agriculture and Environment

- EIC Pathfinder Open [March 7th 2024; 2025]
- Targeting aquatic extremophiles for sourcing novel enzymes, drugs, metabolites and chemicals [22 February] – microorganism co-culture, strain isolation, long-term culture
- New healthy and sustainable food products and processes [22 February]
 - emulsion production, droplet microfluidics, sequential injection
- Any projects where you need microfluidic expertise (flow control solutions)



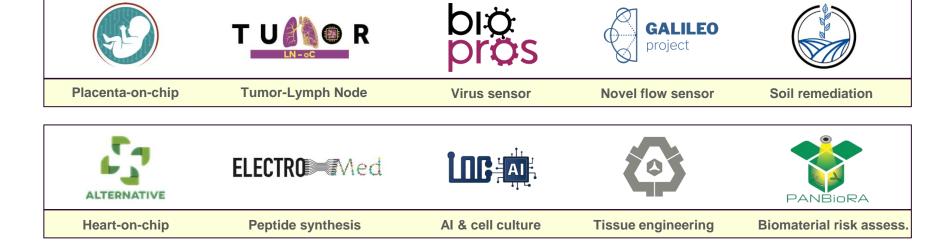
We are looking for:

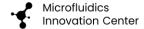
- Consortia to join as a partner (any stage)
 - Where fluid control instruments, modules and platforms are of value
- Partners to join our consortia (MIC coordinates tech-based proposals; EIC, RIA)
 - Biology (e.g. 2D, 3D cell models for use-case and validation; neurobiology, aging, ..)
 - <u>Droplets</u> (e.g. encapsulation, -omics, emulsions, ..)
 - Biomaterials & fabrication (3D bioprinting, membranes, perfusion scaffolds, ..)
 - <u>Clinical</u> (e.g. pre-clinical trial workflows, use-case demos, input on clinical needs, ..)
 - <u>Digital, simulation, ML</u>
 - Social sciences, DICO, impact (legal, ethical, regulatory aspects of non-animal models, ..)
- Impact!



Previous scientific and technology expertise

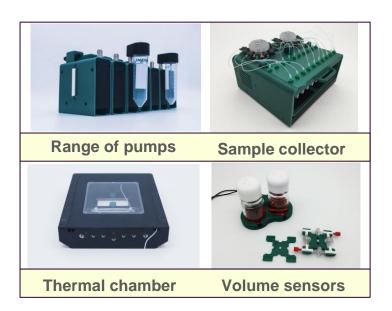
- >35 EU projects since 2018, 9 ongoing (coordinating 2)
- H2020, Horizon Europe, EIC, ITN doctoral networks, RISE staff exchange, bilateral calls...

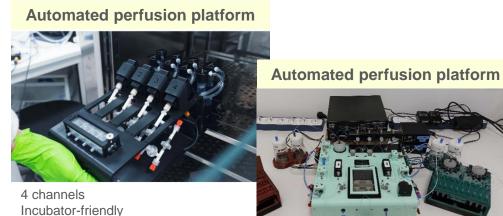




Our added value:

- A focus on real needs: Tech solutions, guides, applications notes, webinars
- Our stakeholder network: project partners, Microfluidics Association, CEN/CENELEC standards WGs, metrology institutes, ..





2 recirculation loops
Dissolved oxygen control
Automated sample collection
Reagent injection