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ICB PhD public presentations

SELF-DRIVEN MICROFLUIDICS FOR DRUG DISCOVERY AND DEVELOPMENT

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ETH Hönggerberg, HCI D 8 and on Zoom
(https://ethz.zoom.us/j/69970837171)

Project Summary: Microfluidics has become an invaluable tool in the field of drug discovery and development, offering precise, cost-effective, and automated analytical experimentation on a microscale. However, these systems are predominantly used in specialised environments that possess the necessary expertise and equipment for their operation. This thesis aims to develop self-driven microfluidic systems that offer a simple user operation and seamlessly integrate into a wide range of research practices. Our approach involves the development of microfluidic systems that integrate robust analytical performance, high experimental throughput, and enhanced usability, with the aim of accelerating the discovery and development of novel drug candidates and advancing clinical diagnostics.

CV: Philippe graduated with a BSc in Life Sciences and Technologies and an MSc in Bioengineering from the Swiss Federal Institute of Technology in Lausanne (EPFL). In 2020, he joined the group of Prof. Paolo Arosio as a PhD student in the Institute of Chemical and Bioengineering.