

D-MEM&BIOMETRA SEMINAR



Mattia Zampieri

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University of Basel

June 25, 2026 – 2.00 PM

Aula Magna, LITA Segrate

Unlocking new drug modes of action by multidimensional high-throughput metabolic profiling

Understanding a small molecule's Mode of Action is essential to guide lead compound selection, optimization and clinical development. I will present a multiparametric approach that by linking genetic to drug-induced changes in nearly a thousand metabolites, enables high-throughput functional annotation of compound libraries, and discuss how the systematic molecular profiling of small molecules interference with metabolism can change how we search for new and unconventional antibacterial and anticancer agents.

Prof. Mattia Zampieri studied Bioengineering at the University of Padova and earned a PhD in Bioinformatics at SISSA (Trieste) in collaboration with Boston University. After a postdoc at ETH Zurich with Prof. Uwe Sauer, where he developed high-throughput metabolomics approaches and quantitative models, he became a junior PI at ETH. He is now a group leader at the University of Basel, leading interdisciplinary research at the interface of computational biology and experimental metabolism. [Team - Zampieri Lab](#)

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