



Host: ETH Zürich - Hönggerberg campus

Sunday 24.08.2025 Room "Kleine Bauhalle" HIF Building	• 17:30 Get-together Self-introduction of the doctoral candidates
Monday 25.08.2025 ROOM J.498 HCI Building at D-MATL	• 09:00-10:00 "BIOMAC-BP: the organization of the network and its scope " Peter Lang (FZJ) • 10:00-11:00 "BIO2PHIM and their physico-chemical properties" Peter Lang (FZJ) • 11:00-11:15 Coffee break • 11:15-12:15 "General use and fate of pesticides with a special focus on biopesticides" Thomas Pütz • 12:15-13:15 Lunch break • 13:15-14:15 "Active matter to understand biopesticides dynamics" Marisol Ripoll (FZJ) • 14:15-18:00 "Numerical simulations for soft-matter" (lecture and hands on with coffee breaks) Marisol Ripoll (FZJ) / Joost de Graaf (UU)
Tuesday 26.08.2025 ROOM J.498 HCI Building at D-MATL	• 09:00-10:30 "Microscopy techniques, particle tracking and quantitative image analysis, Part 1" Pavlik Lettinga (FZJ) • 10:30-10:45 Coffee break • 10:45-12:15 "Soft Materials: a mechanical perspective" Jan Vermant ETHZ • 12:15-13:15 Lunch break • 13:15-14:00 Lab safety instruction • 14:00-16:00 Lab session Rheology and Microscopy (1-4 in parallel) • 16:00-18:00 Lab session Rheology and Microscopy (1-4 in parallel)

Wednesday 27.08.2025 ROOM J.498 HCI Building at D-MATL	• 09:00-10:30 “Rheometry and Linear Viscoelasticity” Benoit Loppinet (FORTH) / Theo Merland (ESPCI) • 10:30-10:45 Coffee break • 10:45-12:15 “Soft skill lecture 1: AI in scientific writing” Mihalka Reka • 12:15-13:15 Lunch break • 13:15-14:00 “Microscopy techniques, particle tracking and quantitative image analysis, Part 2” Pavlik Lettinga (FZI) • 14:00-16:00 Lab session Rheology and Microscopy (1-4 in parallel) • 16:00-18:00 Lab session Rheology and Microscopy (1-4 in parallel)
Thursday 28.08.2025 ROOM E11 HIF Building	• 09:00-10:30 “Introduction to Microbiology: Overview of Sterile Techniques and Discussion on Life/Death Assessment and Microbial Metabolism” Vasiliki Michalopoulou/(FORTH) • 10:30-11:00 Coffee break • 11:00-12:30 Lab “Growing Microbes in the Lab” Jeremy Wong (ETHZ) • 12:30-14:00 Lunch break • 14:00-15:00 “Planktonic and Sessile Bacterial Lifestyles: An introduction” Eleonora Secchi (ETHZ) • 15:00-15:30 Coffee break • 15:30-17:00 Lecture “Microbial Genetic Engineering” Jeremy Wong (ETHZ) • 17:00-17:45 Lab “Genetic Engineering in Practice” Jeremy Wong (ETHZ)
Friday 29.08.2025 ROOM E11 HIF Building	• 09:00-10:00 “Introduction: Fluid dynamics at the Microscale” Eleonora Secchi (ETHZ) • 10:00-10:30 Coffee break • 10:30-12:00 “Experimental Microfluidics: Techniques and Applications” Eleonora Secchi (ETHZ) • 12:00-13:30 Lunch break • 13:30-14:30 Lab Work “Microfabrication” Eleonora Secchi/ Ina Damm (ETHZ) • 14:30-15:00 Coffee break • 15:00-17:00 Lab Work “A Microfluidic Experiment: Viscosimeter on Chip” Eleonora Secchi/ Ina Damm (ETHZ)

Attendees Supervising Scientists:

- [Wim Thielemans](#), KU Leuven, Chemical Engineering, Kulak Kortrijk Campus (Communication-Dissemination-Exploitation Coordinator)
- [Eleonora Secchi](#), ETH Zürich, Department of Civil and Environmental Engineering (Research and Innovation Coordinator)
- [Jan Vermant](#), ETH Zürich, Department of Materials
- [Benoit Loppinet](#), FORTH, Institute of Electronic Structure and Laser (Trainings Coordinator)
- [Peter Lang](#), Forschungszentrum Jülich GmbH, Institute for Biomacromolecular Systems and Processes (IBI-4) (Network Coordinator)
- [Marisol Ripoll](#), Forschungszentrum Jülich GmbH, Theoretical Physics of Living Matter (IAS-2) (WP-Leader WP2)
- [Joost de Graaf](#), Utrecht University, Cond-Matter Theory, Stat & Comp Phys
- [Thomas Pütz](#), Forschungszentrum Jülich GmbH, Agrosphere (IBG-3)

Attendees Doctoral Candidates:

- Aman Vats - FZJ / IBI-4
- Aaron de Clercq - FZJ / HIERN
- Venla Forsell - FZJ/IBG-3
- Vishu Saini - FZJ / IAS 2
- Bahareh Behrouznejad - KUL
- Rohit Khandoori - UU
- Irine Pauly - ESPCI
- Zeyuan Wang - ESPCI
- Maria Miguel Pires – UoC
- Ina Damm - ETHZ
- Iséline Granger – ETHZ
- Bryan Verhoef – Invited UU

Invited Speakers:

- [Pavlik Lettinga](#), Forschungszentrum Jülich GmbH, Institute for Biomacromolecular Systems and Processes (IBI-4)
- [Vasiliki Michalopoulou](#), Institute of Molecular Biology and Biotechnology (IMBB) Foundation for Research and Technology - Hellas (FORTH)
- [Mihalka Reka](#), Department of Management, Technology and Economics of ETHZ
- [Théo Merland](#), Laboratoire de Sciences et Ingénierie de la Matière Molle, ESPCI
- [Jeremy Wong](#), Group for Soft Materials and Interfaces, ETHZ