



UNIVERSITÀ  
DEGLI STUDI  
DI MILANO



Fondazione  
CARIPLO



# LAKE COMO SCHOOL OF ADVANCED STUDIES

## UNRAVELLING THE COMPLEXITY OF BIOLOGICAL SYSTEMS BY ELECTRON MICROSCOPY

2-6 May 2022

Thanks to the exceptional perspectives of Electron Microscopy an increasing number of molecular events are being positioned and understood within their detailed cellular context. Additionally, the possibility to investigate the molecular aspects of living matter at high resolution has recently come into reach thanks to Cryo-electron Microscopy.

This Advanced Course addresses early stage researchers and young scientists, exposing them the most advanced ultrastructural methods and techniques applied to the different branches of life sciences. The Course final aim is to advance the participants' understanding on the potentials of Electron Microscopy as a new essential tool for their research.

### Topics

*Unravelling the complexity of biological systems  
by electron microscopy*

*Integrating structure and function:  
Correlative Microscopy in cell biology studies*

*Cryo-EM and structural cell biology*

*Tomography and Volume electron microscopy  
to explore tissue architecture*

### Organisers:

**Elena Donetti, Maura Francolini, Nadia Santo** -  
Università degli Studi di Milano, I  
**Andrea Raimondi** - Ospedale San Raffaele, I  
**Paolo Ronchi** - EMBL-Heidelberg, D  
**Paul Verkade** - University of Bristol, UK

### Speakers

**Galina Beznusenko**  
(Campus IFOM-IEO, I)

**Jemima Burden**  
(MRC-LMCB, UK)

**Ruben Busnadiego**  
(Georg-August Universität, D)

**Lucy Collinson**  
(The Francis Crick Institute, UK)

**Matteo Ferroni**  
(Università di Brescia, I)

**Christel Genoud**  
(UNIL – Lausanne, CH)

**Helmut Gnaegi**  
(DIATOME, CH)

**Anneke Kremer**  
(VIB Ghent, B)

**Pedro Machado**  
(King's College of London, UK)

**Giulia Mizzon**  
(University of Heidelberg, D)

**Rob Parton**  
(University of Queensland, AU)

**Gaia Pigino**  
(Human Technopole, I)

**Anna Sartori**  
(Institut Pasteur – Paris, F)

**Tom Sharp**  
(LUMC, Leiden, NL)

**Nico Sommerdijk**  
(Radboudumc, NL)

**Carlo Tacchetti**  
(Università Vita-Salute San  
Raffaele, I)

For Applications and further details: <https://ucbs.lakecomoschool.org>

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