



UNIVERSITÀ
DEGLI STUDI
DI MILANO



Fondazione
CARIPLO



LAKE COMO SCHOOL OF ADVANCED STUDIES

UNRAVELLING THE COMPLEXITY OF BIOLOGICAL SYSTEMS BY ELECTRON MICROSCOPY

Online meeting - 19-20 April 2021

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 transmission electron microscopy*

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

The cryo-EM resolution revolution

*Tomography and Volume electron microscopy
to unravel tissue architecture*

*Nanotechnology and other potential
EM applications*

Organizers:

Martino Bognesi, Elena Donetti, Maura Francolini,
Nadia Santo - Università degli Studi di Milano
Andrea Raimondi - Ospedale San Raffaele
Paolo Swuec - Fondazione Human Technopole

Speakers

Francesca Coscia
(MRC Cambridge, UK and
Human Technopole – Milano,
IT)

Edoardo D'Imprima
(EMBL– Heidelberg, DE)

Mauro Gemmi
(IIT – Pisa, IT)

Christel Genoud
(UNIL – Lausanne, CH)

Graham Knott
(EPFL – Lausanne, CH)

Roberto Marotta
(IIT – Genova, IT)

Gaia Pigino
(MPI-CPG – Dresden, DE
and Human Technopole -
Milano, IT)

Paolo Ronchi
(EMBL– Heidelberg, DE)

Jurgen Plitzko
(MPIB– Martinsried, DE)

Roman Polishchuk
(TIGEM – Napoli, IT)

Paul Verkade
(University of Bristol, UK)

REGISTRATION DEADLINE (MAX. 100 PARTICIPANTS): 10 APRIL 2021

For Applications and further details:

<https://ucbs.lakecomoschool.org>



The School



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