

INSTITUT PASTEUR & INSTITUT CURIE COURSE - EDUCATION CENTER

Molecular Biology of the Cell

Institut Pasteur, Paris, January 13-February 14, 2020

This is an intensive laboratory and lecture course devoted to new experimental techniques and current concepts in the study of cellular function.

The first module: Vesicular trafficking and signaling (January 13 - 24) will focus on mechanistic processes that regulate the dynamics of proteins and lipids at the plasma membrane. **The practicum** will study caveolae dynamics and carbohydrate-based mechanisms to build endocytic pits using chemical biology and imaging techniques.

Faculty Module I

Bruno Antony (Nice); Pier Paolo Di Fiore (Milan); Thierry Galli, Ludger Johannes, Christophe Lamaze (Paris); Fernando Martin-Belmonte (Madrid) Serge Mostowy (London)

The second module: Cell shape and morphogenesis (January 27 - February 7) will review key biological concepts required to understand mechanical forces and collective migration in development and morphogenesis. **The practicum** will study the formation of multicellular tubes in vitro, using micropatterns and microfluidics, and in vivo, using *Drosophila* and zebrafish embryos.

Faculty Module II

Markus Affolter (Basel); Buzz Baum (London); Yohanns Bellaiche, Daria Bonazzi, Sandrine Etienne-Manneville (Paris); Eric Honore (Nice); Romain Levayer, Jean-Leon Maitre, Manuel Thery, Chiara Zurzolo (Paris)

Fellowships (1500€ each) will be granted to the 3 best applicants from foreign countries to cover, in part, their travel and accommodation expenses.

Online registration:

www.pasteur.fr/course/cell

Co-directors:

Roberto Bruzzone
Philippe Chavrier
Chiara Zurzolo

Practical informations:

Deadline for application: September 8, 2019

Attendees: 20 students

Contact: enseignement@pasteur.fr

Applicants may opt to take only one module or the entire course.

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