

INSTITUT PASTEUR & INSTITUT CURIE COURSE - EDUCATION CENTER

Molecular Biology of the Cell

Institut Pasteur, Paris, January 11-February 12, 2021

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 (January 11 - 22)

will focus on mechanistic processes that regulate the cell cortex, the plasma membrane biomechanical properties and their interplay with cell migration and tumor invasion. The practicum will study caveolae dynamics and their interrelation with protease-, invadopodia-based invasion program of cancer cells.

The second module (January 25 -

February 5) 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

Andrea Ballabio (Naples), Daria Bonazzi (Paris), Roberto Bruzzone (Hong Kong), Philippe Chavrier (Paris), Nicolas Dray (Paris), Claudio Franco (Lisbon), Robert Grosse (Freiburg), Ricardo Henriques (London), Eric Honoré (Sophia-Antipolis), Christophe Lamaze (Paris), Ana-Maria Lennon (Paris), Romain Levayer (Paris), Jean-Léon Maître (Paris), Dorian Obino (Paris), Ewa Paluch (Oxford), Matthieu Piel (Paris), Felix Randow (Cambridge), Miria Ricchetti (Paris), Mikael Sixt (Klosterneuburg), Giorgio Scita (Milan), Shahrageim Tajbakhsh (Paris), Manuel Théry (Paris), Danijela Vignjevic (Paris), Michael Way (London), Tim Way (Paris), Roberto Zoncu (Berkeley), 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

Practical informations:

Deadline for application: September 30, 2020

Attendees: 20 students

Contact: enseignement@pasteur.fr

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

Co-directors:

Roberto Bruzzone

Philippe Chavrier

Chiara Zurzolo

© Pedro Monteiro (Institut Curie, CNRS UMR144)

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