## **Mouse Genetics**

Institut Pasteur, Paris, January 7 - February 12, 2019

This **five-week** intensive laboratory and lecture course covers the analysis of gene function at all levels: the gene and its product, the cell and its interactions, the embryonic tissues and the whole animal.

This course offers a full training program for advanced graduate and PhD students, as well as post graduate biologists, medical doctors and veterinarians willing to work on medical and experimental mammalian genetics.

## The themes of the course:

The **theoretical part** of this course deals, in particular, with the early embryo biology, pluripotent stem cells, cellular and molecular mechanisms controlling embryogenesis, methods to study cell lineage in mouse embryos, genome editing and conditional expression systems for transgenes, the role of small RNAs, and genetic analysis of mendelian and quantitative traits.

## The themes of the practicals:

The **practical part** presents methods and techniques used to derive induced pluripotent stem cells (iPS) from differentiated cells, to study behavioral traits, to analyze gene function in embryonic and adult mutants, to map mendelian traits and to identify QTLs.

## Online registration:

www.pasteur.fr/en/mouse-genetics

Co-directors:

Michel Cohen-Tannoudji Xavier Montagutelli **Practical information:** 

Deadline for application: September 1, 2018

Attendees: 20 students

Contact: enseignement@pasteur.fr

WWW.PASTEUR.FR/EN/EDUCATION



