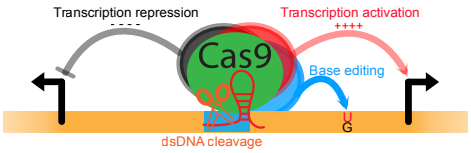
Inserm Workshop 260

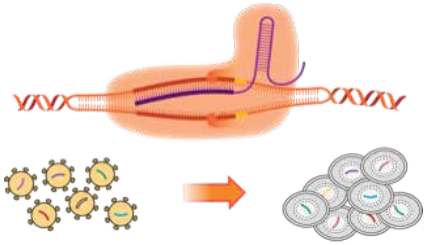
CRISPR-Cas9: yet more breakthroughs and challenges

REGISTRATION DEADLINE: July 9, 2021

ORGANIZERS: Jean-Paul CONCORDET (MNHN, Paris), Caroline GOUJON (CNRS, Montpellier), Emiliano RICCI (ENS, Lyon), Michel WASSEF (Institut Curie, Paris)

AIMS: The workshop will address the latest developments in genome editing and cover some of the ever expanding range of breakthrough applications of the CRISPR-Cas9 systems, including CRISPR screens and novel CRISPR ways of studying genome function and regulation.





PHASE I – CRITICAL ASSESSMENT

October 20-22, 2021 - Bordeaux

RECENT DEVELOPMENTS OF GENOME EDITING WITH THE CRISPR SYSTEM: CAN IT GET BETTER?

Emiliano RICCI (ENS Lyon, FRA), Lydia TEBOUL (MRC Hartwell, GBR), Jean-Paul CONCORDET (MNHN, FRA), Alexis KOMOR (UCSD, USA), Andrew ANZALONE (Broad Institute, USA)

POWER AND LIMITS OF CRISPR SCREENS

Thijn BRUMMELKAMP (Netherlands Cancer Institute, NLD), John DOENCH (Broad Institute, USA), Caroline GOUJON (IRIM, FRA), Michel WASSEF (Institut Curie, FRA)

NOVEL CRISPR WAYS TO STUDY GENOME REGULATION AND FUNCTION

Alejandro CHAVEZ (Columbia University, USA), Hans-Hermann WESSELS (New York University, USA), Stephan RIESENBERG (Max Planck Institute for Evolutionary Anthropology, DEU), Gaelen HESS (Stanford University, USA), Marion ROSELLO (Institut Curie, FRA)

THERAPEUTIC PERSPECTIVES

Annarita MICCIO (Institut Imagine, FRA), Pierre JOUANNET (Université Paris Descartes, FRA)

PHASE II – TECHNICAL WORKSHOP

Date to be defined - Montpellier & Paris

The practical phase will provide hands-on training to the design and realization of key applications of CRISPR-Cas9 and will take place in the labs of the workshop organizers. Three different sessions are proposed:

- design and optimization of cell line production with precise genome modifications (MNHN, Paris)
- design, realization and analysis of CRISPR screens (Institut Curie, Paris)
- using lentiviral vectors and Nanoblades technology to deliver the Cas9 protein in order to simply and efficiently generate KO cell lines (organized at IRIM, Montpellier, by Caroline Goujon and Emiliano Ricci)

SELECTION: 6 trainees will be selected among Phase I participants for each session.

Information and registration
ateliers@inserm.fr
https://tinyurl.com/k7pwrf6e

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*Ateliers Inserm - Réalisation : Audrey Peloni (DRH-ScRCOM) - Juin 2021