

Scientific and technical environment of the training course



Institut de génétique et de biologie moléculaire et cellulaire

<http://www.igbmc.fr>

PHENOMIN

<http://www.phenomin.fr>

COURSE DIRECTOR

Yann HERAULT

Senior researcher
UMR 7104

LOCATION

ILLKIRCH (67)

ORGANISATION

2 days

Training course in English

From Thursday (08:30 am) to Friday (04:30 pm)

From 6 to 10 attendees

TRAINING FEES

800 Euros

AT THE END OF THE TRAINING COURSE

Satisfaction survey from trainees

A certificate of attendance is delivered.

COURSE DATE

Ref. 18 188 : from wednesday

14/03/2018 to thursday 15/03/2018

Ref. 18 266 : from thursday 22/11/2018

to friday 23/11/2018

January	February	March 18 188	April
May	June	July	August
Sept.	Oct.	Nov. 18 266	Dec.

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In vivo CRISPR-Cas9 genome editing

OBJECTIVES

- Learn more about gene editing and how it works
- Hear about current advances on many technical aspects
- Optimize the RNA guide design to the genotyping analysis (bioinformatics workshop)
- Highlight crucial issue in your own scientific project

AUDIENCE

The training is opened to graduate students (PhD), post-doctoral scientists, researchers and engineers. Attendees are invited to download and fill the survey from our web site to adapt the programme to their expectations.

PRE-REQUIREMENT

Attendees should have the basic knowledge in genetics and molecular biology to understand the training content.

TRAINING PROGRAMME

This training aims to provide a general framework to get scientists started using CRISPR-Cas9 for *in vivo* gene editing in rodents.

Lectures (4 hours)

- Introduction and applications of *in vivo* CRISPR-Cas9 genome editing in rodents : principles, rodent's models, PRO and CONS, achievement, challenge...
- Case study : practical illustrations using *in vivo* CRISPR-Cas9 genome editing, in house results and bibliographic analysis

Workshop: practical session on computer (4 hours)

- Web sites
- Design a CRISPR-Cas9 genome editing experiment: KO, point mutation, knock-In, etc.

Interactive discussion groups (4,5 hours)

This session consists of open questions and will allow each attendee to consider their own scientific issues.

Click HERE for detailed programme

SPEAKERS

G. Pavlovic (PhD), Head of the Genetic Engineering and Model validation Department

M-C Birling (PhD), Head associate of the Genetic Engineering and Model validation Department and Group Leader Genetic Engineering

This training is organized by PHENOMIN, the French National Infrastructure in Mouse Phenogenomics, in collaboration with CELPHEDIA Networks and Infrastructure.