

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

1.5 day
Training course in English
From Thursday (08:30 am) to Friday (01:00 pm)
From 6 to 10 attendees

TRAINING FEES

700 Euros

AT THE END OF THE TRAINING COURSE

Satisfaction survey from trainees
A certificate of attendance is delivered.

COURSE DATE

Ref. 17 276 : from thursday 09/03/2017 to friday 10/03/2017

Ref. 17 288 : from thursday 09/11/2017 to friday 10/11/2017

January	February	March 17 276	April
May	June	July	August
Sept.	Oct.	Nov. 17 288	Dec.

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In vivo CRISPR-Cas9 genome editing

NEW

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. Please send it back by email as indicated into the survey.

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 (1 hour)

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) Genetic Engineering and Model validation Department

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

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