



Program

Speakers list

Mon. June 12th

Tue. June 13th

Wed. June 14th

Thu. June 15th

Fri. June 16th

Day 1: Mouse genetics

Basic overview of laboratory mouse genetics / Advanced mouse genetics programs: European and international new programs.

11:00 AM Bus leaves Strasbourg's train station to school location

12:00 PM - 1:00 PM Welcome

1:00 PM - 2:00 PM [Lunch](#)

2:00 PM - 2:30 PM Introduction (Y. Héroult, PHENOMIN-ICS)

2:30 PM - 3:30 PM Laboratory Mouse Genetics: basic overview (L. Montoliu, CNB-CSIC)

3:30 PM - 4:30 PM Advanced Mouse Genetics Programs (Y. Héroult, PHENOMIN-ICS)

4:30 PM - 5:00 PM [Break](#)

5:00 PM - 7:00 PM Workshop: **group 1** - 15 participants max/3-4 experts. Short presentation of scientific project and scientific issue/question/problematic

7:00 PM - 7:30 PM [Free](#)

[Dinner](#)

Day 2: Mutagenesis

CRISPR 9 genome editing *in vivo* / Mouse model for decipher the immunity/ Mouse models for cancer research

8:30 AM - 9:00 AM Mutagenesis: good practices (G. Pavlovic, PHENOMIN-ICS)

9:00 AM - 10:30 AM CRISPR/Cas9 and other nucleases -Applications and future perspectives (MC. Birling, PHENOMIN-ICS and L. Teboul, MRC)

10:30 AM - 11:00 AM **Break**

11:00 AM - 12:00 PM The use of viral vector for mouse mutagenesis and/or for delivery of gene editing by nuclease (F. Piguet, IGBMC)

12:00 PM - 1:00 PM Mutagenesis to decipher the mouse immune system (B. Malissen, PHENOMIN-CIPHE)

1:00 PM - 2:00 PM **Lunch**

02:00 PM- 03:00 PM Mouse model for cancer (J. Jonkers, NKI)

3:00 PM - 4:00 PM Genetic modification and its impact on phenotyping data, i.e, mouse model validation (G. Pavlovic, PHENOMIN-ICS)

4:30 PM - 5:00 PM **Break**5:00 PM - 7:00 PM Workshop: **group 2** - 15 participants max/3-4 experts. Short presentation of scientific project and scientific issue/question/problematic7:00 PM - 7:30 PM **Free****Dinner**

Day 3: Functional tests in mouse models / Advancing human health

Standardized exploration of physiological functions, scientific and ethical considerations, study design, analysis and data management, alternative imaging method tests / Preclinical approaches with mouse models, a first step toward the man, interest and limits

8:30 AM - 9:00 AM	Functional exploration in mouse models: good practices (T. Sorg , PHENOMIN-ICS)
9:00 AM - 9:30 AM	Strategies for improving reproducibility with <i>in vivo</i> studies (P. Reilly, PHENOMIN-ICS)
9:30 AM - 10:00 AM	Statistical analysis (L. Vasseur, PHENOMIN-ICS)
10:00 AM - 10:30 AM	Imaging and pre clinical applications (S. Lerondel, PHENOMIN-TAAM)
10:30 AM - 11:00 AM	Break
11:00 AM - 11:30 AM	Primary phenotyping of mouse embryos (O. Wendling, PHENOMIN-ICS)
11:30 AM - 12:00 PM	How to phenotype new born and juvenil mice ? (E. Durant, PhenoPups)
12:00 PM - 12:30 PM	NeuroBehavior and sensory organ phenotyping (H. Meziane, PHENOMIN-ICS)
12:30 PM - 1:00 PM	Aging phenotyping (P. Potter, MRC)
1:00 PM - 2:00 PM	Lunch
2:00 PM - 4:00 PM	Workshop: group 3 - 15 participants max/3-4 experts. Short presentation of scientific project and scientific issue/question/problematic
4:00 PM - 5:00 PM	Break
5:00 PM - 6:30 PM	Retransmission of Informal discussions from workshop session in groups: more important feed back to be adressed
6:30 PM	Social event (on site)
	Diner

Day 4: Animal Science / Ethics and welfare

Health, impact on functional studies, increasing safe, colony management and genetically drift / Impact of the mouse gut microbiota / Good practice for good results Workshop: welfare assessment of genetically engineering mouse models

9:30 AM - 10:30 AM	Tips, Tools and Techniques to secure your mice projects (A. Ayadi, PHENOMIN-ICS)
10:30 AM - 11:00 AM	Break
11:00 AM - 11:30 AM	Immunophenotyping (M. Malissen, PHENOMIN-CIPHE)
11:30 AM - 12:30 PM	Health status, bioconfinement, and microbiota impact on phenotyping (C.Fremond, PHENOMIN-TAAM)
12:30 PM - 1:00 PM	Crucial complementary aspects of functional analysis: anatomo pathology of the mouse (H. Jacobs, PHENOMIN-ICS)
1:00 PM - 2:00 PM	Lunch
2:00 PM - 3:00 PM	The Collaborative Cross, applied to the infectious disease susceptibility (X. Montagutelli, Institut Pasteur)
3:00 PM - 4:00 PM	Animal models are valid to uncover disease mechanisms (Wurst W, HMZ ¹)
4:00 PM - 4:30 PM	Welfare assessment of genetically engineered mouse models (I.Goncalves, PHENOMIN-ICS)
4:30 PM - 5:00 PM	Break
5:00 PM - 7:00 PM	Workshop: "Ethics and welfare assessment of genetically engineered mouse models" - Practical illustrations- workgroup session
7:00 PM- 7:30 PM	Free
	Dinner

Day 5: Advanced programs in mouse phenogenomics, initiatives and resources

National, European and International Integrated Resources: by, for and available to the scientific community / Improving bioscience reporting and data robustness: ensure the reproducibility of pre-clinical studies

8:30 AM- 09:00 AM European resources : General overview (Mohamed Selloum, PHENOMIN-ICS)

9:00 AM- 09:30 AM Gencodys consortium and mouse models for cognitive dysfunction (Y. Hérault, PHENOMIN-ICS)

9:30 AM- 10:00 AM Infrafrontier Research Infrastructure (M. Hagn, HMZ²)

10:00 AM- 11:00 AM Data integration (AM. Mallon, MRC)

11:00 AM- 11:30 AM **Break**

11:30 AM- 12:00 PM Improving Bioscience Research Reporting: The ARRIVE Guidelines (I. Goncalves, PHENOMIN-ICS)

12:00 PM - 01:00 PM Round table: debrief, satisfaction survey, opened discussions on 3 selected major points.

1:00 PM - 2:00 PM **Lunch**

2:00 PM Bus leaves school location to Strasbourg's train station