

PHENOMIN Advanced School Schedule

First day / departure on June 8th 2015: Bus leaves Strasbourg train station to school location at **11:00 AM**.

Last day / return on June 12th 2015: Bus leaves school location to Strasbourg train station at **2:00 PM**.

Day 1: Mouse genetics Mon. June 8th, 2015

History of mouse genetics and new perspectives in rodent lines development.

11:00 AM Bus leaves Strasbourg 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 of PHENOMIN and PHENOMIN Advanced school
Y. Héroult, PHENOMIN-ICS

2:30 PM - 3:30 PM The different populations of laboratory animals
J.-L. Guénet, Institut Pasteur

3:30 PM - 4:30 PM Mouse genomic variation and its impact on gene function
B. Yalcin, UNIL

4:30 PM - 5:00 PM Break

5:00 PM - 7:30 PM Poster setting up and poster session (1)

7:30 PM - 8:30 PM Dinner

8:30 PM - ... Workgroup session: group constitution, description of the scientific and methodologic problematic to study on.

Day 2: Mutagenesis
Tue. June 9th, 2015

From point mutation to large revisions, good practice, current and future perspectives.

8:30 AM - 9:30 AM An introduction to current practices in mutagenesis and transgenesis
G. Pavlovic, PHENOMIN-ICS

9:30 AM - 10:00 AM Dissecting the complexity of the mouse immune system via functional genomics
B. Malissen, PHENOMIN-CIPHE

10:00 AM - 10:30 AM Integrative and non integrative lentiviral tools for cell and tissue engineering
P. Bouillé, Vectalys

10:30 AM - 11:00 AM Break

11:00 AM - 12:00 PM Genome editing with TALE and CRISPR-Cas9 nucleases: tools and strategies
J.-P. Concordet, MNHN

12:00 PM - 1:00 PM Mutagenesis: current and future perspectives
M.-C. Birling, PHENOMIN-ICS

1:00 PM - 2:00 PM Lunch

2:00 PM - 2:30 PM Validation of the consequences of the genetic modification and its impact on phenotyping data
G. Pavlovic, PHENOMIN-ICS

2:30 PM - 3:30 PM Approaches in chemical mutagenesis: From point mutations to models for translation
M. Hrabe de Angelis, HMGU¹

3:30 PM - 4:00 PM Targeted somatic mutagenesis in the mouse
D. Metzger, IGBMC

4:00 PM - 4:30 PM Modelling human infectious diseases in humanized mouse models
H. Strick-Marchand, Institut Pasteur

4:30 PM - 5:00 PM Break

5:00 PM - 7:30 PM Work group session (1)

7:30 PM - 8:30 PM Dinner

8:30 PM - ... Work group session (2)

Day 3: Functional tests and pre clinical studies in mice models (1) - limits of the mouse models
Wed. June 10th, 2015

Standardized exploration of physiological functions, scientific and ethical considerations, study design, analysis and data management, alternative imaging method tests.

Mouse models of human diseases, points of interest and limits, preclinical approaches as a first step toward the man.

8:30 AM - 9:30 AM	Functional exploration in mouse models T. Sorg, PHENOMIN-ICS
9:30 AM - 10:00 AM	Standardized high content immunophenotyping M. Malissen, PHENOMIN-CIPHE
10:00 AM - 10:30 AM	Primary phenotyping of mouse embryos O. Wendling, PHENOMIN-ICS
10:30 AM - 11:00 AM	Break
11:00 AM - 11:30 AM	Therapeutic proof-of-concepts to rescue myotubular/centronuclear myopathies J. Laporte, IGBMC
11:30 AM - 12:00 PM	Correction of cardiac defect in mouse model B. Belbellaa, IGBMC
12:00 PM - 12:30 PM	Transgenic models to mimic human pancreatic or intestinal endocrine deficiencies G. Gradwohl, IGBMC
12:30 PM - 1:00 PM	Design experimental and statistical analysis L. Vasseur / S. Leblanc, PHENOMIN-ICS
1:00 PM - 2:00 PM	Lunch
2:00 PM - 2:30 PM	Mouse models for cancer research A. Berns, NKI
2:30 PM - 3:00 PM	Potential and limitations of preclinical imaging for phenotyping S. Lerondel, PHENOMIN-TAAM
3:00 PM - 3:30 PM	Mouse IRM Imaging L. Harsan, BCF
3:30 PM - 4:00 PM	Ultrasound imaging for in vivo research in mice L. Monassier, UDS ¹
4:00 PM - 4:30 PM	Mouse models for asthma: what we can expect F. Daubeuf, UDS ²
4:30 PM - 5:00 PM	Break
5:00 PM - 7:00 PM	Oral restitution form working groups (5' + 10' questions) Groups 1 to 8
7:00 PM - 7:30 PM	Debriefing
7:30 PM - 8:30 PM	Dinner
8:30 PM - ...	Poster session (2)

Day 4: Functional tests and pre clinical studies in mice models (2) - Animal Science - Ethics and Animal Welfare
Thu. June 11th, 2015

- 1) Improving health status, impact on functional studies, colony management and genetical drift.
- 2) Good practices for good results.

9:00 AM - 9:30 AM Modelling genetic diseases with intellectual disabilities in the mouse
Y. Héroult, PHENOMIN-ICS

9:30 AM - 10:00 AM Flexible phenotyping: testing mutant mouse models at MRC Harwell
S. Wells, MRC

10:00 AM - 10:30 AM The WTSI mouse programme
R. Ramirez-Solis, WTSI

10:30 AM - 11:00 AM Break

11:00 AM - 12:00 PM Tips, Tools and Techniques to secure your mice projects
A. Ayadi, PHENOMIN-ICS

12:00 PM - 12:30 PM Microbial considerations in genetically engineered mice phenotypes
C. Frémond, PHENOMIN-TAAM

12:30 PM - 1:00 PM Reporting and guidelines in animal experimentation
I. Goncalves, PHENOMIN-ICS

1:00 PM - 2:00 PM Lunch

2:00 PM - 2:30 PM Laboratory Animal Science: The good, the bad and the ugly
J.-B. Prins, LUMC

2:30 PM - 3:00 PM Archiving and distribution of mouse lines
M. Raspa, IBCN

3:00 PM - 3:45 PM The Infrafrontier infrastructure
M. Raess, HMGU²

3:45 PM - 5:00 PM Break

5:00 PM - 7:00 PM Oral restitution form working groups (5' + 10' questions)
Groups 9 to 15

7:00 PM - 7:30 PM Debriefing

7:30 PM - 8:30 PM Dinner

8:30 PM - ... Social Event: Visit of wine cellars and tasting of regional products

Day 5: National, european and international initiatives and integrated resources
Fri. June 12th, 2015

By, for and available to the scientific community.

8:30 AM - 9:30 AM Integrated resources and European initiatives
M. Selloum, PHENOMIN-ICS

9:30 AM - 10:30 AM Data integration
L. Vasseur, PHENOMIN-ICS and A.-M. Mallon, MRC

10:30 AM - 11:00 AM Break














































11:00 AM - 11:30 AM Conclusions




11:30 AM - 1:00 PM Round table: debrief, satisfaction survey, open discussions (What is the future for homologous recombinaison tool? Is the mouse the most efficient animal model for human pathology? What are the perspectives for the functional genome annotation in mammals?)

1:00 PM - 2:00 PM Lunch

2:00 PM Departure from Goersdorf to Strasbourg train station

Speakers and institutes list

BCF	 (http://www.bcf.uni-freiburg.de/)	 Bernstein Center Freiburg  Hansastrasse 9a, 79104 Freiburg  Germany	 L. Harsan
HMGU ¹	 (http://www.helmholtz-muenchen.de/en/ieg)	 Helmholtz Zentrum München, Institute of Experimental Genetics and German Mouse Clinic  Ingolstaedter Landstrasse 1, D-85764 Neuherberg  Germany	 M. Hrabe de Angelis
HMGU ²	 (http://www.helmholtz-muenchen.de/en/ieg/research/international-consortia/infrafrontier/who-we-are/index.html)	 INFRAFRONTIER GmbH  Ingolstaedter Landstrasse 1, D-85764 Neuherberg  Germany	 M. Raess
IBCN-CNR	 (http://www.ibcn.cnr.it/)	 CNR-Cell Biology and Neurobiology Institute (CBNI)  A. Buzzati-Traverso Campus, via E. Ramarini 32, I- 00015 Monterotondo Scalo, Roma  Italy	 M. Raspa
IGBMC	 (http://www.igbmc.fr/)	 Institut de Génétique et Biologie Moléculaire et Cellulaire  CNRS UMR 7104 - Inserm U 964, 1 rue Laurent Fries, BP 10142, 67404 Illkirch  France	 B. Belbellaa, G. Gradwohl, J. Laporte, D. Metzger
LUMC	 (https://www.lumc.nl/)	 Leiden University Medical Centre PDC  Postzone T-07, P.O. Box 9600, 2300 RC Leiden  The Netherlands	 J.B. Prins
MNHN	 (http://biophysique.mnhn.fr/site/TACGENE)	 Museum National d'Histoire Naturelle - TACGENE  57 Rue Cuvier, 75005 Paris  France	 J.-P. Condorcet
MRC	 (https://www.har.mrc.ac.uk/)	 Medical Research Council Harwell  Harwell, Oxfordshire, OX11 0RD  United Kingdom	 A.-M. Mallon, S. Wells
NKI	 (http://www.nki.nl/)	 The Netherlands Cancer Institute, Division of Molecular Genetics  Plesmanlaan 121, 1066 CX Amsterdam  The Netherlands	 A. Berns

Pasteur	 (http://www.pasteur.fr/)	 Institut Pasteur  25-28 rue du Docteur Roux, 75015 Paris  France	 J.-L. Guénet, H. Strick-Marchand
PHENOMIN-CIPHE		 Centre d'ImmunoPHEnomique  163 avenue de Luminy, 13288 Marseille Cedex 09  France	 B. Malissen, M. Malissen
PHENOMIN-ICS	 (http://www.ics-mci.fr/)	 Institut Clinique de la Souris  1 rue Laurent Fries, 67404 Illkirch Cedex  France	 A. Ayadi, M.-C. Birling, E. Bedu, I. Goncalves, Y. Hérault, S. Leblanc, G. Pavlovic, M. Selloum, T. Sorg, L. Vasseur, O. Wendling
PHENOMIN-TAAM	 (http://transgenose.cnrs-orleans.fr/taam/)	 Transgène et Archivage d'Animaux Modèles  3B Rue de la Férolierie, 45071 Orléans Cedex 2  France	 C. Frémond, S. Lerondel
UDS ¹	 (http://med.unistra.fr/)	 Faculté de Médecine de l'Université de Strasbourg  4 rue Kirschleger, 67085 Strasbourg Cedex  France	 L. Monassier
UDS ²	 (http://medchem.u-strasbg.fr/)	 Faculté de Pharmacie de Strasbourg  UMR 7200 - Laboratoire d'innovation thérapeutique, 74 route du Rhin, 67401 Illkirch  France	 F. Daubeuf
UNIL	 (http://www.unil.ch/)	 Center for Integrative Genomics  University of Lausanne, 1015 Lausanne  Switzerland	 B. Yalcin
Vectalys	 (http://www.vectalys.com/)	 Vectalys  Bâtiment Canal Biotech 2, Parc Technologique du Canal - 3, rue des satellites, 31400 Toulouse  France	 P. Bouillé
WSTI	 (https://www.sanger.ac.uk/)	 The Wellcome Trust Sanger Institute  Wellcome Trust Genome Campus, Hinxton, Cambridge, CB10 1SA  United Kingdom	 R. Ramirez-Solis