

WORKSHOP ON MOUSE PATHOBIOLOGY

13-15 OCTOBER 2025
FACULTAT VETERINÀRIA UAB

JOIN US TO EXPLORE KEY TOPICS, INCLUDING:

Human Disease Modeling

Organ specific-pathologies

Ontology & Terminology

**This year we will focus on
MOUSE EYE SCREENING**

Monday, October 14th

- 8.45 – 9.00 Registration and Opening
- 9.00 – 10.00 A Pathologist's Approach to Phenotyping Mutant Mice
[J. Sundberg](#)
- 10.00 – 11.00 Using Model Organism Phenotype Data to Find New Models of Human Disease; Strategies, Tools and Resources
[P. Schofield](#)
- 11:00 – 11:30 Coffee break
- 11.30 – 12.30 Past, Present and Future of Mouse Phenotyping
[J.K. Seong](#)
- 12.30 – 13.30 Craniofacial Development in Down Syndrome
[Y. Herault](#)
- 13:30 – 14:30 Lunch break
- 14.30 – 15.30 Neuromuscular Disease Phenotyping and Models
[P. Vogel](#)
- 15.30 – 16.30 Histological and Pathological Assessment of the Mouse Kidney
[P. da Silva-Buttkus](#)
- 16.30 – 18.00 Mouse Necropsy
[J. Sundberg](#) and [J. Ruberte](#)

Tuesday, October 15th

- 9.00 – 10.00 Mouse Genetic Nomenclature: The Underpinning of Mouse Genetics
[J. Sundberg](#)
- 10.00 – 11.00 All in a Name; The Use of Ontological Terminologies for Mouse and Human Phenotypes and Anatomy
[P. Schofield](#)
- 11:00 – 11:30 Coffee break
- 11.30 – 12.30 Ciliopathies
[P. Vogel](#)
- 12.30 – 13.30 Histology of the Mouse Thymus and Spleen: Pathological Insights into the Lymphoid and Hematopoietic Systems
[P. da Silva-Buttkus](#)

- 13:30 – 14:30 Lunch break
- 14:30 – 15:30 Mouse models to study diabetes and obesity
[A. Casellas](#)
- 15:30 – 16:30 Insights from Mouse Models for Understanding Hearing Loss
[S. Murillo](#)
- 16:30 – 17:30 Whole Organ Label-free Imaging with Scattered Lightsheet Microscopy
[J. Colombelli](#)
- 17:30 – 18:30 Mouse Models to Study Skin Diseases
[J. Sundberg](#)

Wednesday, October 16th

- 9.00 – 9.45 Tools of the Trade: Exploring Vision in Mice with Modern Imaging and Functional Tests
[O.V. Amarie](#)
- 9.45 – 10.30 Ocular phenotype study in Korea Model Animal Priority Center
[K.Y. Seo](#)
- 10.30 – 11.15 Pathology of Eye Disease Models
[P. Vogel](#)
- 11:15 – 11:45 Coffee break
- 11.45 – 12.30 Insights from Mouse Models for Understanding Diabetic Retinopathy
[J. Ruberte](#)
- 12.30 – 13.15 Retinal Consequences of Dyrk1a under Overexpression
[M. Roux](#)
- Lunch break
- 13.15 – 14.15 Mouse Models for the Study of Retinal Degeneration and Therapeutic Strategies
[N. Cuenca](#)
- 14.15 – 15.00 Mouse Models of Albinism
[Ll. Montoliu](#)
- 15:00 – 15.45 Exploring Neuroprotective Strategies for Inherited Retinal Degenerations
[R. Rodrigo](#)
- 15.45 – 16.30 Retinal Vascular Heterogenicity: Implications in Hypertension
[D. Ramos](#)

- 16.30 – 17:15 Studying the Retina with Advanced Imaging Techniques: from Super-resolution to Mesoscopy
E. Pérez
- 17:30 Closing Remarks

List of speakers

Speaker	Institution
Amarie, Oana veronica	
Casellas, Alba	
Colombelli, Julien	
Cuenca, Nicolas	
Da Silva-Buttkus, Patricia	
Herault, Yann	
Montoliu, Lluís	
Murillo, Silvia	

Pérez, Enric	 
Ramos, David	 UAB Universitat Autònoma de Barcelona
Rodrigo, Regina	 VALENCIA BIOMEDICAL RESEARCH FOUNDATION CENTRO DE INVESTIGACIÓN PRÍNCIPE FELIPE
Roux, Michel	  institut de génétique et de biologie moléculaire et cellulaire
Ruberte, Jesús	 UAB Universitat Autònoma de Barcelona
Schofield, Paul	 UNIVERSITY OF CAMBRIDGE
Seo, Kyoung Yul	 Korea Model animal Priority Center 
Seong, Je Kyung	 Korea Model animal Priority Center 
Sundberg, John	 The Jackson Laboratory  VANDERBILT UNIVERSITY
Vogel, Peter	 St. Jude Children's Research Hospital