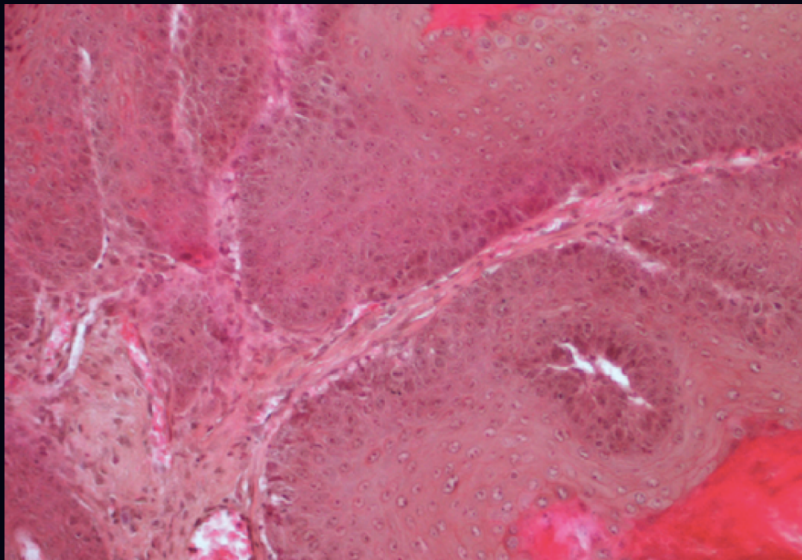




Summer Course

Module III



Mouse Pathology



Copenhagen, Denmark 26th – 30th August



PATHBIO (pathbio.org) is an EU-funded ERASMUS Knowledge Alliance for “Precision Pathobiology for Disease Models”, including major European Universities, 5 European “Mouse clinics” for high-throughput phenotyping of mice, and major mouse providers (Charles River, JAX, TCP). Supported by the INFRAFRONTIER network (infrafrontier.eu) and the IMPC (mousephenotype.org), PATHBIO will provide courses and online teaching material for mouse embryology and anatomy, mouse pathology, and for imaging.

August 26-30, 2019, the first Mouse Pathology course will take place in Copenhagen at BRIC, Biocenter Copenhagen, Ole Maaløes Vej 5 (www.bric.ku.dk). Aim is to provide Master Students, PhD students, and post docs with basic and expert knowledge in mouse pathology, helping them to better analyze mice with disease phenotypes.

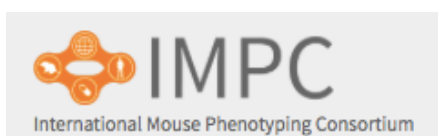
At this course expert pathologists and researchers from Europe, US, and Canada will give lectures and discuss with the participants different aspects of mouse pathology including specific disease phenotypes and models, quantitative digital pathology, mouse genome informatics, and basic histology. There will be also an opportunity for the participants to discuss the phenotype of their mice with expert pathologists.

There is no fee for this course. Participants have to organize travel and accommodation themselves and cover the corresponding expenses.

Interested researchers should apply with CV and letter of motivation to

cord.brakebusch@bric.ku.dk

Deadline for applications is May 31, 2019. Accepted participants will be informed middle of June.





Monday 26th August

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|--------------------|--|
| 9-10 | Welcome and introductory remarks
Cord Brakebusch, University of Copenhagen |
| 10-11 | A pathologist approach to phenotyping
John Sundberg, JAX |
| 11-12 | Histology Basics
Cord Brakebusch, University of Copenhagen |
| 12-13 | Lunch |
| 13-15 | Virtual microscopy: Accumulations, adaptations, cell death
Cord Brakebusch, University of Copenhagen |
| 15-16 | Overview on mouse genetics and nomenclature
John Sundberg, JAX |
| 16-16:15 | Coffee break |
| 16:15-17:15 | Mouse necropsy
Susan Camilieri, The Centre for Phenogenomics, Toronto |
| 19:00 | Get together with pizza and beer |



Tuesday 27th August

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|-----------------|--|
| 9-10 | Genetic based skin diseases
John Sundberg, JAX |
| 10-11 | Spontaneous pathology of juvenile and young adult wild type mice
Alys Bradley, Charles River |
| 11-12 | Spontaneous tumors and pathology of aged wild type mice
Alys Bradley, Charles River |
| 12-13 | Lunch |
| 13-15 | Virtual microscopy: Inflammation
Cord Brakebusch, University of Copenhagen |
| 15-15:15 | Coffee break |
| 15:15-17 | Discussion of selected mice of the participants
John Sundberg, JAX; Alys Bradley, Charles River; Peter Vogel, St. Jude's |

Wednesday 28th August

9-10 Tumorigenicity, Oncogenicity and Oncology studies
Alys Bradley, Charles River

10-11 Carcinogenicity studies
Alys Bradley, Charles River

11-12 Phenotyping myopathies and cardiomyopathies
Peter Vogel, St. Jude's

12-13 **Lunch**

13-15 Mouse models for diabetes and metabolic syndrome-induced obesity
Julia Calzada-Wack, Helmholtz Institute Munich

15-16 Bone and teeth diseases
Peter Vogel, St. Jude's

16-16:15 **Coffee break**

16:15-18 Ciliopathies
Peter Vogel, St. Jude's












Thursday 29th August

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|--------------------|--|
| 9-11 | Eye diseases
Jesus Ruberte, Universitat Autònoma de Barcelona |
| 11-12 | Genetic background and phenotype
Fuad Iraqi, Tel Aviv University |
| 12-13 | Lunch |
| 13-14 | Genetic background and phenotype
Fuad Iraqi, Tel Aviv University |
| 14-15 | Virtual microscopy: Cancer
Cord Brakebusch, University of Copenhagen |
| 15-16 | Ontology and informatics
Paul Schofield, University of Cambridge |
| 16-16:15 | Coffee break |
| 16:15-17:15 | The role of the microbiome
Karen Svenson, JAX |



Friday 30th August

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|--------------|---|
| 9-11 | How to choose and develop robust mouse models of human disease
Karen Svenson, JAX |
| 11-12 | Introduction to Digital Pathology
Adrian Sanz, Helmholtz Institute Munich |
| 12-13 | Lunch |
| 13-14 | How to use Mouse Genome Informatics
Karen Svenson, JAX |
| 14-15 | Written examination
Cord Brakebusch, University of Copenhagen |
| 15-16 | Course evaluation
Cord Brakebusch, University of Copenhagen |
| 16 | Pizza and beer |

SPEAKER	INSTITUTION
Bradley, Alys	 charles river
Brakebusch, Cord	 UNIVERSITY OF COPENHAGEN
Calzada-Wack, Julia	 German Mouse Clinic
Camilieri, Susan	
Iraqi, Fuad	 TEL AVIV אוניברסיטת תל אביב UNIVERSITY תל אביב
Ruberte, Jesus	 UAB Universitat Autònoma de Barcelona
Sanz, Adrian	 German Mouse Clinic
Schofield, Paul	 UNIVERSITY OF CAMBRIDGE
Sundberg, John	 The Jackson Laboratory
Svenson, Karen	 The Jackson Laboratory
Vogel, Peter	 St. Jude Children's Research Hospital