2011 Mouse Pathobiology and Phenotyping Short Course

July 25-29, 2011

Short Course & Workshop on Mouse Biology, Pathology, Genetics for Phenotyping and Translational Research
[concurrent with graduate school course ME 680.712]

Visit Exhibits: 9am Monday to 5pm Tuesday

APERIO
THE JACKSON LABORATORY
CRC PRESS

Exhibitors contact welza1@jhmi.edu for more information

At Johns Hopkins University School of Medicine, Baltimore, MD USA

TARGET AUDIENCE: Scientists, faculty, postdocs, graduate students, veterinarians, pathologists who use or expect to use mice in translational research.

AIMS: To provide information, practical tools and skills essential to the optimal use of mice in translational research.
FORMAT: 5 day short-course on mouse biology, pathology, genetics, practical and multidisciplinary phenotyping for translational research, including lectures, 3 hands on laboratory session, exhibits, tours, poster session, pathology slide conference.

DVM/VMD RACE APPROVED 36.5 hrs.

SYLLABUS: MOUSE PATHOBIOLOGY & PHENOTYPING MANUAL is the core syllabus material, several sections can be downloaded (free)
Additional syllabus/lecture material is provided at the course.

BWI is the closest airport
BAL is the closest Amtrak station

More about JHUSOM course ME680.712
Tuition Remission Course 80026792

Contact us for more information:
cbrayton@jhmi.edu

2011 Programs

MONDAY    INTRODUCTION to Mouse Pathobiology & Phenotyping
July 25, 2011  + EXHIBITS

9-10am  Brayton - Introduction to phenotyping, fundamental mouse genetics and biology, mouse and gene nomenclature

10-11  Brayton - Famous Mice & Phenotypes

11-12  Watson - Environmental influences on phenotypes 1

What is in your mouse environment?

12-1  LUNCH - VISIT EXHIBITS + POSTERS

Watson - Environmental influences on phenotypes 2

What ELSE can impact your research and phenotypes: Your Surveillance Program ...

1-2  Brayton - Infections & infectious phenotypes that can impact your research

3-4  Brayton - Immunodeficient Mice - options & challenges

4-5  Karim - Pathology and Phenotyping GEM intestinal Cancers

5-7pm  RECEPTION, EXHIBITS & POSTER SESSION

TUESDAY    GEM & Multidisciplinary Phenotyping
July 26, 2011  + EXHIBITS

9-10  Lawler/Reeves – Making Mice - traditional and new transgenic technologies

10-11  Sinha - Ophthalamic Phenotyping

11-12  Lauer/May - Auditory/acoustic phenotyping

12-1  LUNCH & Tours - CMOR (metabolic) & BRB Imaging, Behavioral

+ visit EXHIBITS + POSTERS

1-2  Pletnikov/Yocum – Emotional / cognitive phenotyping

2-3  Aja/Ronnet - Metabolic Phenotypes & Phenotyping

3-4  Tankersly/Mitzner – Pulmonary/Respiratory Phenotypes & Phenotyping

4-530  Pomper - IMAGING for Phenotyping
Gabrielson - Cardiovascular phenotyping: In vivo functional correlations to pathology

**WEDNESDAY**
**July 27, 2011**
Practical Phenotyping 1

9-10  Watson - Clinical / Physical Exam - Modified SHIRPA
10-11 Brayton - Clinical Pathology - oversimplified
11-12 Brayton & al - Online & other Resources
**12-1**  *LUNCH & Tours - CMOR (metabolic) & BRB Imaging, Behavioral*
Watson / Forbes & al
130-3pm LAB 1: Clinical Examination
315-5pm LAB 2: Clinical Pathology and Specimen collection

**THURSDAY**
**July 28, 2011**
Practical Phenotyping 2

9-10  Brayton - Anatomic Pathology Phenotyping - Necropsy
10-11 Brayton - Anatomic Pathology Phenotyping - Trimming
11-12 Brayton - Microscopic Anatomy & Pathology by
Virtual Microscopy
**12-1**  *LUNCH*
1-4  Forbes / Brayton / Wilcox al.
LAB 3: Anatomic Pathology - Necropsy
4-6pm  *Slide Conference*

**FRIDAY**
**July 29, 2011**
Advanced Pathology for Phenotyping & Translational Research

9-11  Forbes / Brayton / Wilcox al.
LAB 4: Anatomic Pathology - Trimming
11-12 A Meeker - Basic Immunohistochemistry - principles and protocol development
**12-1**  *LUNCH*
1-2  J Ward - Evaluation of Embryos & Pups
2-3  D Haines & M Anver - Pathology Core Support for Basic and Translational Research: GEM, Xeno, and Nano
3-4  T Cornish – digital microscopy, quantitative microscopy for research applications and publication
5pm  *Quizzes Due! for course ME680.712*
TURN in to BRB 851

**POSTER SESSION**

**Monday-Tuesday, July 25-26, Abstract deadline: July 1, 2011**
Scientific and Technical posters relevant to phenotyping (any species) & translational research (mice) are invited. Email abstract (250 word limit) to [Dr. Brayton (click here)](mailto:brayton@brbmice.org). The poster session will be in the exhibit area, 9am Monday through 5pm Tuesday. Authors should attend posters Monday 5-6pm during the reception.
SLIDE CONFERENCE

Thursday, July 28, 4-6pm
Case/Slide Submission deadline: July 1, 2011
Glass Slides, Virtual slides, cases relevant to phenotyping & translational research (any species, but especially mice) are invited. Each submitter will have approximately 10 minutes to present & discuss a case. Limited to 20 cases - submit early to be included. Email case information and queries to Dr. Brayton (click here).

MOUSE PATHOBIOLOGY & PHENOTYPING MANUAL

1st ed. 2009 selected sections available to download here.
Register for this course, or contact Dr. Brayton for updated revisions.
Section 1
Spontaneous Phenotypes and Conditions in Common Mouse Strains & Stocks
Section 2
Infectious Agents and Phenotypes in Mice
Section 3
Mouse Pathology Glossary: Non Neoplastic; Neoplastic
Section 4
Anatomic Pathology - Necropsy & Trimming Protocol
Section 5
(Relatively) Non Invasive Phenotyping
Section 6
Clinical Pathology Resources
Section 7
Metabolic Phenotyping Resources
Section 8
Pregnancy, embryo, pup evaluation

Previous Courses & Symposia

Go to 2010 program and EXHIBITORS
Visit 2009 JHU Symposium Site
Visit 2008 JHU Symposium Site
Visit 2007 JHU Symposium Site
Visit 2006 JHU Symposium Site
See 2008 ME 680.712 course schedule
See 2007 ME 680.712 course schedule

For additional Course information or to order a complete manual, or to provide feedback or suggestions - contact Dr. Brayton.
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