

-
- [Home](#)
 - [Research](#)
 - [Education](#)
 - [Faculty](#)
 - [Phenotyping \(and Pathology\) Core](#)
 - [PHENOCORE Home](#)
 - [Phenotyping Course](#)
 - [What is Phenotyping?](#)
 - [Core Faculty & Resources](#)
 - [In Vivo Tests](#)
 - [Pathology](#)
 - [Retrovirus Laboratory](#)
 - [Comparative Pathology](#)
 - [Laboratory Animal Medicine \(Comparative Medicine\)](#)
 - [Contact Us](#)

Home > [Molecular & Comparative Pathobiology](#) > [Phenotyping Core](#) > DONE

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**
1-2 Watson - Environmental influences on phenotypes 2
 What ELSE can impact your research and phenotypes: Your Surveillance Program ...
2-3 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 - Ophthalmic 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

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***
130-3pm Watson / Forbes & al
 LAB 1: Clinical Examination
315-5pm Forbes / Brayton & al
 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 **Practical Phenotyping 3**
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 \(click here\)](#).

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 to order a complete manual, or to provide feedback or suggestions - contact [Dr. Brayton](#).

[Back to Top of Page & Course Schedule](#)

[Back to Phenotyping Core Home page](#)

