

The course includes 5 days of lectures, labs, tours, exhibits, poster session, slide conference (up to 36.5 hr RACE credit).

Early registration (before June 15) is \$800 USD to include participation in laboratory sessions ( 3 sessions totaling 10hr). Or \$600 USD for lectures only.

Space is limited for laboratory sessions. Please register early.

The lecture schedule is below. Link to Electronic registration form, more information including **syllabus material and information from previous courses** at <http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT> <<http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT>>

## **MONDAY**

**July 25, 2011**

### **INTRODUCTION to Mouse Pathobiology & Phenotyping**

#### **+ 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**

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** <[http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT#Poster\\_Case\\_Submit](http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT#Poster_Case_Submit)>

## **TUESDAY**

**July 26, 2011**

### **GEM & Multidisciplinary Phenotyping**

#### **+ EXHIBITS**

9-10 Reeves - Making Mice - traditional and new transgenic technologies

10-11 Sinha - Ophthalmic Phenotyping

11-12 May - Auditory/acoustic phenotyping

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

**+ visit EXHIBITS**

- 1-2Pletnikov – Emotional / cognitive phenotyping
- 2-3Aja/Ronnet - Metabolic Phenotypes & Phenotyping
- 3-4Mitzner – Pulmonary/Respiratory Phenotypes & Phenotyping
- 4-530Pomper/Gabrielson - IMAGING for Phenotyping Gabrielson - Cardiovascular phenotyping: In vivo functional correlations to pathology

**WEDNESDAY**

**July 27, 2011**

**Practical Phenotyping 1**

9-10Watson - Clinical / Physical Exam - Modified SHIRPA

10-11Brayton - Clinical Pathology - oversimplified

11-12Brayton & al - Online & other Resources

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

130-3pmWatson / Forbes & al

LAB 1: Clinical Examination

315-5pmForbes / Brayton & al

LAB 2: Clinical Pathology and Specimen collection

**THURSDAY**

**July 28, 2011**

**Practical Phenotyping 2**

9-10Brayton - Anatomic Pathology Phenotyping - Necropsy

10-11Brayton - Anatomic Pathology Phenotyping - Trimming

11-12Brayton - Microscopic Anatomy & Pathology by

Virtual Microscopy

**12-1LUNCH**

1-4 Forbes / Brayton / Wilcox al.

LAB 3: Anatomic Pathology - Necropsy

**4-6pmSlide Conference - with refreshments <[http://](http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT#Poster_Case_Submit)**

**[www.hopkinsmedicine.org/mcp/PHENOCORE/](http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT#Poster_Case_Submit)**

**[courseCURRENT#Poster\\_Case\\_Submit](http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT#Poster_Case_Submit)>**

**FRIDAY**

**July 29, 2011**

**Practical Phenotyping 3**

**Advanced Pathology for Phenotyping & Translational Research**

9-11Forbes / Brayton / Wilcox al.

LAB 4: Anatomic Pathology - Trimming

11-12J Ward - Evaluation of Embryos & Pups

**12-1LUNCH**

1-2A Meeker - Basic Immunohistochemistry - principles and protocol development

2-3D Haines & M Anver - Pathology Core Support for Basic and Translational Research: GEM, Xeno, and Nano

3-4Cornish – digital microscopy, quantitative microscopy for research applications and publication

**5pmQuizzes Due ! for course ME680.712**

**TURN in to BRB 851**

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**Phenotyping Core Home Page: <http://>**

**[www.hopkinsmedicine.org/mcp/phenocore/index.html](http://www.hopkinsmedicine.org/mcp/phenocore/index.html)** <<http://www.hopkinsmedicine.org/mcp/phenocore/index.html>>

**Pathology for Phenotyping & Preclinical Research <http://>**

**[www.hopkinsmedicine.org/mcp/PHENOCORE/TESTpath.html](http://www.hopkinsmedicine.org/mcp/PHENOCORE/TESTpath.html)**

**2011 Mouse Pathobiology & Phenotyping Course: July 25-29, 2011 <http://www.hopkinsmedicine.org/mcp/PHENOCORE/courseCURRENT>**