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2010 Mouse Pathobiology and Phenotyping Course

Mouse Pathobiology and Phenotyping Short Course & Workshop on *Mouse Biology, Pathology, Genetics for Phenotyping and Translational Research*

[Concurrent with graduate School Course ME 680.712]

Short Course & Workshop at Johns Hopkins, Baltimore, MD USA

July 12-16, 2010

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: 5day 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

SYLLABUS: [The MOUSE PATHOBIOLOGY & PHENOTYPING MANUAL](#) is the core syllabus material, several sections can be downloaded (free) by section from this site. Softbound complete copies can be purchased (\$50). It is updated at least annually. Additional course materials to be provided at the course

DVM/VMD RACE approved for 36.5 Hr

PROGRAM

MONDAY July 12, 2010

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 Huso - Good News from the pathologists! Phenotype confirmation & characterization with pathology
- 5-7pm** ***RECEPTION, EXHIBITS & POSTER SESSION***

TUESDAY July 13, 2010

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

WEDNESDAY July 14, 2010

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 15, 2010

Practical Phenotyping 2

- 9-10 Brayton - Anatomic Pathology Phenotyping - Necropsy
- 10-11 Brayton - Anatomic Pathology Phenotyping - Trimming
- 11-12 Brayton - Microscopic Anatomy & Pathology by

12-1 Virtual Microscopy
LUNCH
1-4 Forbes / Brayton / Wilcox al.
LAB 3: Anatomic Pathology - Necropsy
4-6pm **Slide Conference - with refreshments**

FRIDAY
July 16, 2010

Practical Phenotyping 3
FINAL QUIZ for ME 680.712
Advanced Pathology for Phenotyping & Translational Research

9-11 Forbes / Brayton / Wilcox al.
LAB 4: Anatomic Pathology - Trimming

11-12 QUIZ (Final exam for ME680.712)

12-1 LUNCH

1-2 J Ward - Evaluation of Embryos & Pups

2-3 M Anver - Immunohistochemistry in Phenotyping

3-4 DC Haines - Lesions & IHC of Aged Mice & GEM

4-5pm K McDorman - Quantitative Pathology - Analysis & Data Management

Monday-Tuesday, July 12-13, Concurrent POSTER SESSION
Abstract deadline: June 14, 2010.

**The poster session will be in the exhibit area,
9am Monday through 5pm Tuesday.**

***Authors should attend posters Monday 5-6pm during the
reception.***

Thursday, July 15, SLIDE CONFERENCE 4-6pm

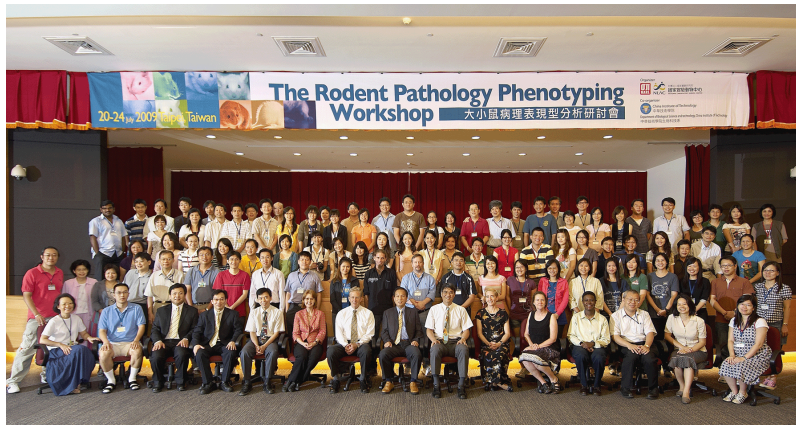
Submission deadline: June 14, 2010.

**Glass Slides, Virtual slides, cases relevant to phenotyping &
translational research (any species, but especially mice)*******

MOUSE PATHOBIOLOGY & PHENOTYPING MANUAL

1st ed. 2009 selected sections available to download

- 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 4a Anatomic Pathology - powerpoint presentation
- Section 5 (Relatively) Non Invasive Phenotyping
- Section 6 Clinical Pathology Resources
- Section 7 Metabolic Phenotyping resources
- Section 8 Pregnancy, embryo, pup evaluation



The 2009 phenotyping workshop in Taiwan

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