

Phenotyping Symposium 2007 Congratulations Core and Speakers!!

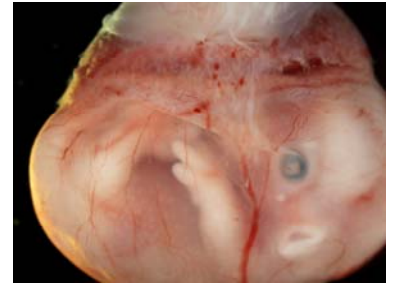
Our second phenotyping symposium attracted over 150 attendees from the US and Canada.

While the symposium was initiated for and expected to attract Hopkins' scientists with interests in functional genomics and phenotyping, we welcome participation by so many visitors with similar interests and challenges, and we appreciate our sponsors help in providing the symposium, again at no charge to registrants. Attendees included investigators, post docs, graduate students, veterinarians, MD's and research staff.

The response was overwhelmingly positive, and plans have begun for next year.

A special thanks to the Keynote speaker Dr. Brad Bolon who also gave an informal workshop on mouse placentation and embryology Wednesday March 21, 2007. Thank you again to our faculty speakers who made this event possible: Dr. Janet Clements, Dr. Cory Brayton, Dr. Roger Reeves, Dr. Shannon Fisher, Dr. Julie Watson, Dr. Ellen Hess, Dr. Mikhail Pletnikov, Dr. Martin Pomper, Dr. Kathy Gabrielson, Dr. Wayne Mitzner, and especially to Dr. Brad May who filled in at the last minute with an excellent presentation on mouse hearing and auditory phenotyping. Thanks as well to the administrative staff who made everything run smoothly: Cathy Rada, Renee Esannason, Wendy Elza, Marjorie Lafoon, Nadine Forbes, and to Green house catering, for feeding us well and on time. ☺

The presentations (PDF format) will be posted shortly on the symposium website: <http://www.hopkinsmedicine.org/JHUphenotyping/index.html> We welcome feedback and suggestions for next year at phenocore@jhmi.edu.



Great Links (& Vacations?)

If the symposium stimulated your interest in phenotyping, check:

<http://www.hopkinsmedicine.org/mcp/PHENOCORE/links.html> for links to atlases, mouse immunohistochemistry, & phenotyping information in and beyond the US, such as:

- Mouse Brain Atlas
- Detltagen Mouse Histology Atlas
- Edinburgh Mouse Atlas Project
- U.C. Davis Visible Mouse
- EMPRESS (EUmorphia)
- NorCOMM
- RENI

Also check our events website:

<http://www.hopkinsmedicine.org/mcp/PHENOCORE/UPcoming.html> for more courses, symposia, workshops, such as

Pathology of Genetically Engineered Rodents and Aquatic Species, July 25-27 in Madison, WI, which features several of JHU's phenocore faculty in an intensive, 3-day workshop on mice, rats and zebrafish.

Contact Phenocore@jhmi.edu to tell us about more links and events to post.

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Upcoming 2007 Events

Courses at Jax, Cold Spring Harbor, Charles River etc — check

<http://www.hopkinsmedicine.org/mcp/PHENOCORE/UPcoming.html>

Neurobehavioral Phenotyping in BRB

Specialized neurobehavioral testing is available for mice in BRB by contacting Dr. Mikhail Pletnikov in the Department of Psychiatry and Behavioral Science.

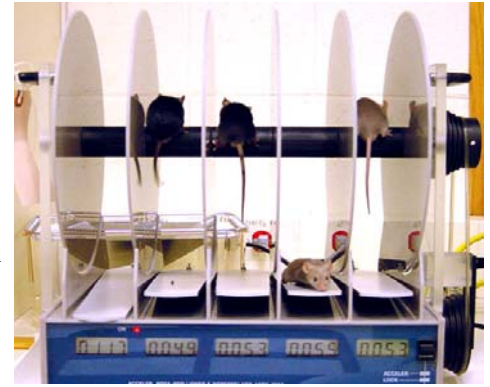
Currently available tests include: Rotarod and accelerating rotarod, Open Field Test, Elevated plus Maze, Acoustic startle, prepulse inhibition of the acoustic startle, Morris Water Maze, Y maze and T maze, and social interaction.

When used appropriately these tests can

assess motor coordination, balance, muscle strength, fearfulness, anxiety, sensorimotor integration, cognitive functions (learning, memory) and social behaviors.

Dr. Pletnikov and his staff may be able to collaborate on your project, or can assist in test selection, data analysis, and usage of core equipment. Check:

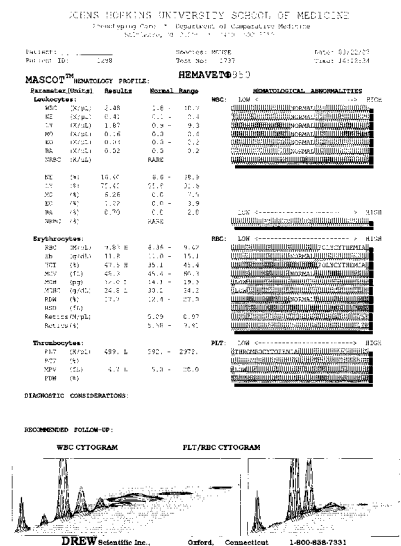
<http://www.hopkinsmedicine.org/JHUphenotyping/CORE/BEHAV.html>



Mouse, Rat (etc.) CBC's

The phenotyping core clinical pathology laboratory can perform automated Complete Blood Count (CBC) on less than 50 ul of anticoagulated whole blood, in contrast to 200ul or more that are required by most automated analyzers. The Hemavet 950 is an impedance-based analyzer that counts, measures and/or calculates WBC, NE#, NE%, LY#, LY%, EO#, EO%, MO#, MO%, BA#, BA%, RBC, Hb, HCT, MCV, MCH, MCHC, RDW, Retic #, Retic %, PLT, MPV, NRBC#, RBC%. While most of our specimens are from mice and rats, this system can be programmed to accommodate a wide variety of species. Because automated analyzers cannot reliably ana-

lyze abnormal or atypical cells, blood smears or blood films (requiring < 5ul of blood) are ALWAYS recommended. When abnormalities are detected in the automated CBC, the smear should be stained and assessed microscopically (manual differential). For more details and prices go to: <http://www.hopkinsmedicine.org/mcp/PHENOCORE/07tests.html> To optimize results for your project, specimen handling, special panels and needs should be discussed with the clinical pathology and research technician Nadine Forbes, (nforbes1@jhmi.edu) before submitting specimens.



Comparative Pathology Slide Conference & WYD

The Department of Molecular and Comparative Pathobiology and Phenotyping Core have initiated an **informal monthly slide conference**, to emphasize recent interesting phenotyping and comparative pathology cases, and to provide a friendly and educational venue for colleagues within and outside of the JHU community to present and discuss interesting cases.

To be added to our mailing list, contact phenocore@jhmi.edu

The March slide conference was canceled due to the phenotyping symposium on March 20.

The next slide conference will be Tuesday April 17, 2007, 4-6PM, in 801 BRB.

Please email cbrayton@jhmi.edu if you

have slides or a case that you would like to present.

March 2007 – What's your diagnosis:

Mouse liver, mastocytosis, perivascular mast cells in a case of disseminated mastocytosis, in a 14 month old mouse of mixed background including B6, 129 and possible other strains. While not common, this hematopoietic neoplasm may occur spontaneously in aging mice of various background strains.

For additional information and references, Follow links from :

<http://www.hopkinsmedicine.org/mcp/phenotypingcore/newsletter.html>

April 2007

WHAT'S YOUR DIAGNOSIS ?

Tissue from a mouse.

