

The Mouse as an Instrument for Ear Research III

September 18-21, 2008, Bar Harbor, Maine USA

This is a preliminary schedule and is subject to change.

For more information, please contact Barbara Donovan 207-288-6803 or
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Thursday, September 18th

- 4:00pm Organizer/Speaker Meeting
5:00 – 6:30pm Registration and Welcome Reception for all

Friday, September 19th

- 8:30am Late Registration
9:00 Welcome to The Jackson Laboratory – *Richard Woychik, Ph.D.,
The Jackson Laboratory*
9:15 Overview of Meeting – TBA
9:30 Mouse Husbandry, Biomethods, and Nomenclature – *Leona
Gagnon, B.A., The Jackson Laboratory*
10:00 Basic Mouse Genetics – *David Bergstrom, Ph.D., The Jackson
Laboratory*
10:30 Morning Break
11:00 -1:00pm ***Ear Development:***
Review Overview – *Edwin Rubel, Ph.D., University of
Washington, Seattle*
Early Mouse Ear Development – *Amy Kiernan, Ph.D., University
of Rochester*
Hair Cell Polarity – *Ping Chen, Ph.D., Emory University*
Inner ear-specific gene manipulation by Pax2-Cre BAC transgenic
mice– *Takahiro Ohyama Ph.D, House Ear Institute*
1:00 – 2:30 Lunch

2:30 – 5:00

Proteomics:

A targeted Coch missense mutation: a knock-in mouse model for DFNA9 late-onset hearing loss and vestibular dysfunction–
Cynthia Morton, Ph.D., Harvard Medical School

Mass spectrometry analysis of hair bundle proteins –
Jung-Bum Shin, M.D., PhD., Oregon Health & Science University

Proteomic Analysis of Cochlear Pathologies –
Donald Coling, Ph.D., Buffalo Hearing Research Laboratory

Mouse Model for Deafness in Usher 1F: A Proteomic Study –
Kumar Alagramam, Ph.D., Case Western Reserve University

NIDCD Proteomics Initiative – *TBA*

Panel Discussion

6:00

Cocktails

6:30pm

Lobster Banquet

Saturday, September 20th

8:30am

Strain Background Effects – *Kenneth Johnson, Ph.D., The Jackson Laboratory*

8:50

Mouse Models for Otitis Media - *Qing Yin Zheng, M.D., Case Western Reserve University*

9:10

Otitis Media – *Dennis Trune, Ph.D., M.B.A., Oregon Health & Science University*

9:30

The tectorial membrane: One slice of a complex cochlear sandwich-*Ian Russell, Ph.D., University of Sussex*

9:50

Auditory CNS Processing –Afferent – *George Spirou, Ph.D., West Virginia University School of Medicine*

10:10

Eye Movements Used to Assay Vestibular Function - *John Stahl, MD., Ph.D., Case Western Reserve University*

10:30

Morning Break

11:00- 1:00pm

RNA Interference and micro-RNAs :

Abstract Talk – *TBA*

Significance of MicroRNAs in Development and Maintenance of the Mouse Inner Ear – *Garrett Soukup, Ph.D., Creighton University*

micro-RNA in Hair Cell Fate Determination –
Donna Fekete, Ph.D., Purdue University

Panel Discussion

1:00 – 2:30pm

Lunch

2:30 – 3:00

Molecular Resources – Cre Lines, Floxed Alleles – *Jian Zuo, Ph.D., St. Jude Children's Research Hospital*

3:00 – 4:30

New Mouse Models and Programs:

European Projects – *Steven Brown, Ph.D., MRC*

KOMP and NIH projects – *Colin Fletcher, Ph.D., NIH*

NIDCD Initiative –

Cre Lines – *Ulrich Muller, Ph.D., Scripps Research Institute*

Panel Discussion

4:30 – 6:00pm

Demonstrations and Workshops:

Mouse Biomethods and Ear Dissections – *David Custer*

Emerging Imaging Tools: MicroCT, OPT, MRI, 4pi –
Joerg Bewersdorf, Ph.D., The Jackson Laboratory

Sunday, September 21st

8:30

Free Radicals and Hearing Loss – *Richard Salvi, Ph.D., State University of New York, Buffalo*

8:50

Hearing loss QTLs in mouse strains – *Konrad Noben-Trauth, Ph.D., NIDCD*

9:10

NIHL Loci in Various Strains of Mice – *Bruce Tempel, Ph.D., University of Washington*

9:30

Genetic aspects of age- and noise-related endocochlear potential reduction – *Kevin Ohlemiller, Ph.D., Washington University, St. Louis*

9:50

Primary Neural Degeneration after temporary noise-induced thresholds shifts: ABR amplitudes reveal what ABR thresholds hide. – *M.C. Liberman, Ph.D., Harvard Medical School*

10:10

Contributed talk – *TBA*

10:30

Morning Break

- 11:00 – 1:00 ***Hair cell structure-function***
 Hair Bundle-genes, proteins, complexes – *Thomas Friedman, Ph.D., NIDCD*
 Stereociliary Links – *Ulrich Muller, Ph.D., The Scripps Research Institute*
 Modeling Prestin Function in Mice– *Richard Hallworth, Ph.D., Creighton University School of Medicine*
 Panel Discussion
- 1 :00 – 2 :30 Lunch
- 2 :30 – 4 :30 ***Hair Cell Regeneration, Gene Therapy and Stem Cell Replacement***
 TBA – *Jeff Corwin, Ph.D., University of Virginia School of Medicine*
 TBA – *Albert Edge, Ph.D., Massachusetts Eye and Ear Infirmary*
 Zebrafish Hair Cell Regeneration – *David Raible, Ph.D., University of Washington, Seattle*
 Panel Discussion and Wrap-up
- 4:30 – 6:00 ***Demonstrations and Workshops (GRB Training Lab)***
 General Principles in Electrophysiological Recordings- *Sherri Jones, Ph.D. East Carolina University*
 DPOAE Demonstration - *Sherri Jones, Ph.D. East Carolina University*
 ABR Demonstration – *Chantal Longo-Guess, B.S., The Jackson Laboratory*
 VsEP Demonstration – *David Bergstrom, Ph.D., The Jackson Laboratory*
 Eye Movement Recording – *John Stahl, M.D., Ph.D., Case Western Reserve University*
 Sound Calibration and Measuring Noise-induced Hearing Loss – *Rick Davis, Ph.D., National Institute for Occupational Safety and Health*

END of MEETING