



The Mouse As An Instrument For Ear Research II

Oct 1 – 4, 2005 at The Jackson Laboratory, Bar Harbor, Maine USA

<u>Date and Time</u>	<u>Presentation</u>
<u>October 1st</u>	
<u>Saturday</u>	
4:00 PM	Pre-conf. Meeting of committee
5:00 PM	Registration opens
6:00 PM	Meet and greet reception
<u>October 2nd</u>	
<u>Sunday</u>	
8:00 AM	Welcome to TJJL, summary of meeting and any updates Richard Woychik, Ph.D., and Kenneth Johnson, Ph.D., The Jackson Laboratory
8:15 AM	Tutorial: Mouse husbandry Leona Gagnon, The Jackson Laboratory
8:30 AM	Tutorial: Basic mouse genetics Peter Kozel, Ph.D., NIDCD
9:00 AM	Review: Ear development -overview (Fish-->Mouse) Bernd Fritzsich, Ph.D., Creighton University
9:30 AM	Review: Ear development - molecular pathways Matthew Kelley, Ph.D., NIDCD/NIH
10:00 AM	Coffee break
10:30 AM	<i>“PCP signaling during inner ear morphogenesis”</i> Xiaowei Lu, University of Virginia
10:45 AM	<i>“Cloning of Deafness-Causing Genes in Isolated Human Populations and ENU Mutant Mice”</i> Hashem Shahin, Tel-Aviv University
	Special topic: <u>Proteomics and transcriptomics</u>
11:00 AM	Development of inner ear cDNA microarray/Hair cell specific genes Zheng-Yi Chen, Ph.D., Harvard Medical School
11:20 AM	Inner ear proteomics: a Fad or 'Hear' to Stay? Isolde Thalmann, Ph.D., Washington University
11:40 PM	proteome analysis of membrane protein complexes Niko Klöcker, Ph.D., Albert-Ludwigs-Universität Freiburg im Breisgau
12:00 PM	Lunch
1:00 PM	Posters

Special topic: Gene and Stem Cell Therapy

- 2:00 PM** **adenoviral-mediated gene delivery to ear**
Yehoash Raphael, Ph.D., The University of Michigan
- 2:20 PM** **neural stem cells, spinal cord**
Robert Miller, Ph.D., Case Western Reserve University
- 2:40 PM** **Transplanting stem cells in rat/mouse IE (replacement therapy)**
Juichi Ito, Ph.D., Kyoto University
- 3:00 PM** **Hands on workshop: Informatics**
Shuttles to Bar Harbor Club
- 6:00 PM** **Knock Out Mouse Project at NIH -**
James Battey, M.D., Ph.D.
Cocktail Reception and Banquet

October 3rd

Monday

- 8:00 AM** **Tutorial: measuring auditory and vestibular function**
Sherri Jones, Ph.D., East Carolina University
- 8:30 AM** **Review: cochlear function - molecular mechanisms**
Christine Petit, M.D., Ph.D., Institut Pasteur
- 9:00 AM** **Review: cochlear function - mouse models of Mendelian disorders**
David Kohrman, Ph.D., University of Michigan Medical School
- 9:30 AM** **Tutorial: NIHL principles and methods**
Rickie Davis, Ph.D., NIOSH
- 10:00 AM** **Review: noise-induced and age-related hearing loss**
Kevin Ohlemiller, Ph.D., Central Institute for the Deaf at Washington University
- 10:30 AM** **Coffee break**
- Special topic: Otitis Media**
- 11:00 AM** **UK program**
Stephen Brown, Ph.D., Medical Research Council, UK
- 11:20 AM** **TJL program**
Qing Yin Zheng, Ph.D., The Jackson Laboratory
- 11:40 AM** **signal transduction networks**
Jian-Dong Li, M.D., Ph.D., House Ear Institute
- 12:00 PM** **Mouse models of otitis media: strain and pathogen differences, transgenics and gene chips**
Allen Ryan, Ph.D., UCSD-SOM, Surgery/ Otolaryngology
- 12:20 PM** **Lunch**
- 1:00 PM** **Posters**
- 2:30 PM** ***“Role of inflammatory response in cisplatin-induced ototoxicity in vitro and in vivo”*** Hongseob So, Wonkwang University
- 2:45 PM** ***“The Mars Gravity Biosatellite: A Rotating Platform for Partial Gravity Research”*** Erika Wagner, MIT

Special topic: Future Initiatives

- 3:00 PM** **US programs and plans**
Muriel Davison, Ph.D., The Jackson Laboratory
- 3:20 PM** **UK programs and plans**
Stephen Brown, Ph.D., Medical Research Council, UK
- 3:40 PM** **round table discussion**
moderator: James Battey, M.D., Ph.D.
- 4:00 PM** **Hands on workshops:**
- ABR**
Qing Yin Zheng, Ph.D., The Jackson Laboratory
- SEM**
Chantal Longo-Guess, Pete Finger, The Jackson Laboratory
- paint filling**
Amy Kiernan, Ph.D., The Jackson Laboratory

5:00 PM **finish**

~6:00-9:00 PM Organizers dinner meeting to discuss MBR special issue

October 4th

Tuesday

- 8:00 AM** **Tutorial: strain background and modifiers**
Kenneth Johnson, Ph.D., The Jackson Laboratory
- 8:30 AM** **Tutorial: gene targeting, conditional mutations**
Jian Zuo, Ph.D., St. Jude's Children's Research Institute
- 9:00 AM** **Review: Central auditory processing**
Philip Jen, Ph.D., University of Missouri
- 9:30 AM** **Review: Auditory processing disorders (APDs)**
David Moore, Ph.D., University of Nottingham
- 10:00 AM** ***“A New Spontaneous Mutation in the Clic5 gene Underlies Deafness and Vestibular Dysfunction in Jitterbug Mutant Mice”***
Leona Gagnon, The Jackson Laboratory
- 10:15 AM** ***“Heat shock proteins (HSPs), an important modulator of hair cell death and survival in response to ototoxic drug exposure”***
Lisa Cunningham, Medical University of South Carolina
- 10:30 AM** **Coffee break**
- 11:00 AM** **Review: Microscopy imaging of the dynamic structure and renewal of the sensory hair bundle**
Bechara Kachar, Ph.D., NICDC
- 11:30 AM** **Review: Fluorescence imaging and analysis of membrane proteins**
Jie Zheng, Ph.D., University of California, Davis
- 12:00 PM** **Review: prestin-prestin interaction using FLIM-FRET**
Richard Hallworth, Ph.D., Nebraska Center for Cell Biology, Creighton University
- 12:30 PM** **Lunch**
- 1:00 PM** **Posters**

- 2:30 PM** *“Differential expression of espin isoforms during epithelial morphogenesis, stereociliogenesis, and postnatal maturation in the developing inner ear”*
James Bartles, Northwestern University
- 2:45 PM** *“Hair cell loss in postnatal conditional Rb-knockout mice”*
Thomas Weber, St. Jude
- Special topic: Cell type specific analytical methods**
- 3:00 PM** **GFP Cell Sorting: FACS purified supporting cells can divide and differentiate as hair cells**
Neil Segil, Ph.D., House Ear Institute
- 3:20 PM** **Laser capture (mouse inner ear)**
Kumar Alagramam, Ph.D., Case Western Reserve University
- 4:00 PM** **Hands on workshops:**
Culture mouse utricle
Lisa Cunningham, Medical University of South Carolina
LCM
Kumar Alagramam, Ph.D., Case Western Reserve University
- 5:00 PM** **finish**
- 5:30 PM** End-of session organizer meeting

October 5th

Wednesday

**no events - travel
home**