

Auditory Development: From Cochlea to Cognition

Registration and talks: Kane Hall, Room 220

Posters: Mary Gates Hall Commons

DAY 1: 14 AUGUST 2015

8:30 am Registration (Coffee and continental breakfast)

DAY 1: MORNING SESSION (Chair: Allison Coffin)

9:00 am Welcome
Neal Futran, Professor and Chair, Department of Otolaryngology-HNS
Richard Folsom, Professor, Department of Speech and Hearing Sciences

9:10 am [Carolina Abdala](#) (University of Southern California)
Development of human cochlear function: known unknowns

9:40 am [Matthew Kelley](#) (NIDCD)
Transcriptional profiling of hair cell development by single cell RNA-Seq

10:10 am [Isabelle Roux](#) (Johns Hopkins School of Medicine)
 $\alpha 1$ nAChR expression in the inner hair cells parallels the onset of cholinergic efferent synaptic function but is not necessary for efferent synapse formation

10:30 am [Chandrakala Puligilla](#) (Medical University of South Carolina)
MEKK4 signaling regulates sensory cell development and function in the mouse inner ear

10:50 am [Hanna Sherrill](#) (NIDCD)
Expression of Pou4f1 defines a potential subtype of spiral ganglion neurons

11:10 am Discussion session 1: Development of auditory periphery: similarities and differences amongst the species we study

11:40 am-1:30 pm Poster session & buffet lunch

DAY 1: AFTERNOON SESSION (Chair: Carolina Abdala)

2:00 pm [Robin Davis](#) (Rutgers University)
Older and Wiser: Development of dynamic plasticity in the spiral ganglion

2:30 pm [Karl Kandler](#) (University of Pittsburgh)
Role of pre-hearing activity in the refinement of a tonotopic map

3:00 pm [Stephanie Altieri](#) (University of Pittsburgh)
En1 is necessary for the differentiation, survival and migration of superior olivary complex neurons

3:20 pm COFFEE BREAK

3:40 pm [Yuan Wang](#) (Florida State University)
Afferent influence of neuronal dendrites of bipolar neurons: structural regulation and molecular mechanism

4:00 pm Discussion session 2: Relationship between functional development of the cochlea and the CNS

4:30-6:00 pm Poster session & reception

DAY 2: 15 AUGUST 2015

9:00 am Coffee and continental breakfast

DAY 2: MORNING SESSION (Chair: Dan Sanes)

9:30 am Welcome
Jay Rubinstein, Professor and Director, Virginia Merrill Bloedel Hearing Research Center

9:35 am [Emily Buss](#) (University of North Carolina)
Factors responsible for immature auditory performance in children

10:05 am [David Horn](#) (University of Washington)
Spectral Ripple Discrimination in Normal Hearing and Cochlear Implanted Infants

10:25 am [Laurianne Cabrera](#) (Université Paris Descartes)
How do newborns perceive speech sounds? The use of speech temporal cues in phonetic perception at birth

10:45 am [Julia Huyck](#) (Kent State University)
Neuropsychological correlates of naïve comprehension of and rapid learning of noise-vocoded speech during adolescence and adulthood

11:05 am [Anne Takesian](#) (Harvard Medical School)
Top-down gating of auditory thalamocortical plasticity

11:25 pm [Brian Monson](#) (Harvard Medical School)
Maturation of Auditory Cortical Microstructure in Preterm Infants

12:00-2:00 pm Poster session & buffet lunch

DAY 2: AFTERNOON SESSION (Chair: Lynne Werner)

2:00 pm [Sarah Bottjer](#) (University of Southern California)
Neural representations of current and goal behaviors during sensitive-period learning

2:30 pm [Janet Werker](#) (University of British Columbia)
Visual and motor influences on auditory speech perception in infancy

3:00 pm [Chistina Zhao](#) (University of Washington)
Musical intervention enhances infants' neural processing of temporal structure in music and speech

3:20 COFFEE BREAK

3:40 pm [Christina Vanden Bosch der Nederlanden](#) (Univ Nevada at Las Vegas)
Category knowledge can affect children's ability to detect changes in common sounds

4:00 pm [Edwin Rubel](#) (University of Washington)
Hearing Development in broad strokes, 1971 - 2015 and beyond: Where were we, what do we know now, what are the challenges?

4:50-5:30 pm Reception

Sponsors

We gratefully acknowledge financial support from:

- * National Institute of Deafness and Other Communication Disorders
- * Company of Biologists
- * Association for Research in Otolaryngology
- * Department of Speech and Hearing Sciences, University of Washington
- * Department of Otolaryngology, University of Washington
- * Virginia Merrill Bloedel Hearing Research Center
- * Med-el

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Kane Hall (<https://goo.gl/maps/73mFP>)

Mary Gates Hall (<https://goo.gl/maps/Luk3H>)

