
2016 Northwest Auditory and Vestibular Research Meeting

October 14-15, 2016
Oregon Health & Science University

Meeting Agenda

Friday, October 14: Marion Miller Auditorium, Vey Conference Center

- 12:00 PM Coffee, refreshments, poster set-up.
- 12:45 PM Welcome (Stephen David and Lina Reiss)
- 1:00 PM **Invited talks: Session 1**
(Moderator: Lina Reiss. Microphones: John Brigande, Alev Brigande)
Matthew Winn (Speech & Hearing Sciences, University of Washington). Looking beyond intelligibility: Tracking peri-stimulus and post-stimulus listening effort using pupillometry.
- 1:30 PM **Tianying Ren** (Oregon Hearing Research Center, OHSU). The micromechanical mechanism of cochlear active process.
- 2:00 PM **Olivia Bermingham-McDonogh** (Biological Structure, UW). Regeneration in mammalian inner ear.
- 2:30 PM Coffee break, poster set-up.
- 3:00 PM **Short talks: Session 1**
(Moderator: Peter Barr-Gillespie. Microphones: Qing Yu, Meiyang Jiang)
Joy Sebe (Biological Structure, UW). Glutamate receptors at the hair cell synapse.
Tim Balmer (OHRC, OHSU). Unipolar brush cells in the vestibulocerebellum receive mossy fiber inputs from primary and secondary vestibular sources.
Jesse Resnick (Otolaryngology, UW). Encoding implications of pathological auditory nerve fiber demyelination during electrical stimulation.
Yonghee Oh (OHRC, OHSU). Toward a systematic analysis of binaural pitch averaging trends in hearing impaired listeners.
Luke Shaheen (OHRC, OHSU). Impacts of cochlear neuropathy on coding in the inferior colliculus.
- 4:30 PM Poster session, exhibitors, refreshments (Vey Conference Center).
- 6:00 PM Dinner (Vey Conference Center).
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Saturday, October 15: Marion Miller Auditorium, Vey Conference Center

- 8:30 AM Breakfast (Vey Conference Center).
- 9:00 AM **Short talks: Session 2**
(Moderator: Larry Trussell. Microphones: Gabriel Romero, Lucille Moore)
Naomi Bramhall (National Center for Rehabilitative Auditory Research, Portland VA). Evidence of noise-induced cochlear synaptopathy in veterans.

Ward R. Drennan (Virginia Bloedel Hearing Research Center, UW). Early detection of noise-induced hearing loss.

Sarah Pickett (Biological Structure, UW). The intersection of hair cell mechanotransduction, mitochondrial metabolism, and ototoxic vulnerability.

Phillip Uribe (Integrative Physiology and Neuroscience, Washington State University, Vancouver). Growth factor mimetic modulates aminoglycoside-induced hair cell death.

Itallia V. Pacentine (OHRC & Vollum Institute, OHSU). Deciphering the role of Tmie in the mechanotransduction complex of sensory hair cells.

10:30 AM Coffee break.

11:00 AM **Invited talks: Session 2**

(Moderator: Stephen David. Microphones: Daniela Saderi, Doug Zeppenfeld)

Xiaorui Shi (OHRC, OHSU). The strial blood-labyrinth barrier and hearing loss.

11:30 AM **Timothy Hullar** (Otolaryngology, OHSU). Audition and balance.

12:00 PM **Michael Wehr** (Psychology, University of Oregon). Speech processing in mouse auditory cortex.

12:30 PM Closing remarks, announcements.

12:45 PM Adjourn, box lunches available for pickup. (Note: Any remaining posters must be taken down by 1:00 pm.)

Assistive listening support

Real-time captioning will be provided. In addition, assistive listening devices will be available on request. Please indicate at registration if you will need an assistive listening device with a) neckloop or b) headphones, or if you will need other accommodations.

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NWAVRM 2016 Poster Presentations

Name	Title
Alexandria Camino	Berbamine derivatives mitigate ototoxic hair cell damage in the zebrafish lateral line.
Minghui Chen	Temperature dependence of exocytosis at the bullfrog hair cell ribbon synapses.
Timothy Erickson	Tmc1/2 localization in the hair cell mechanotransduction complex is regulated by transmembrane O-methyltransferase.
Marcela Fernandez-Vargas	High frequency vocalizations of the Black Jacobin, a neotropical hummingbird.
Curtis Hartling	Binaural pitch fusion in normal-hearing and hearing impaired children.
Tamasen Hayward	Cortisol modulates ototoxic damage to hair cells.
Zach Hoskins	Effects of stimulus repetition and context on human electrophysiology.
Tomohiko Irie	Control of firing by nanodomain coupling of ryanodine receptors and BK channels.
Meiyan Jiang	Co-localization of WDR1 and actin in HEI-OC1 cells.
Anastasiya Johnson	The effect of endotoxemia on the paracellular permeability of the blood-labyrinth barrier.
Kaylah Lalonde	Mechanisms of audiovisual speech benefit in infants and adults.
Brendan Lujan	Glycolysis selectively shapes the presynaptic action potential waveform.
Daniel McCloy	Estimating speech sound categorization from electrocortical responses.
Garnett McMillan	The tonotopic ribbon density map in mice with cross-species expansion.
Alexander Nevue	Dopaminergic projections of the subparafascicular thalamic nucleus to the auditory brainstem.
Robert Peterka	Vestibular contribution to human balance control.
Warren Piehl	Long term hearing preservation despite repeated electrical stimulation of the semicircular canals with a vestibular prosthesis.
Ben Richardson	Pre- and postsynaptic mechanisms mediate alcohol-induced enhancement of GABAergic and glycinergic inhibition in vestibulocerebellum.
Zack Schwartz	Pupil size predicts single-neuron response variability in primary auditory cortex.
Sophie Seo	Canonical Wnt signaling regulates auditory hair cell regeneration in birds.
Corey Shayman	The effect of cochlear implants on postural stability.
Avinash Singh Bala	Pupillary dilation as a hearing screen in adults and infants.
Sean Slee	Task-related plasticity in the inferior colliculus of the marmoset monkey.
Jennifer Stone	Supporting cells generate type II hair cells in undamaged and damaged mouse utricles.
Eric Thomas	Searching for functionally distinct support cell populations in the zebrafish lateral line.
Nancy Tran	Screening for genes involved in hair cell regeneration in zebrafish (<i>Danio rerio</i>).
Zachary Urdang	Rat cochlear inflammation and permeability as imaged by MRI.
Xiaohan Wang	Expression and function of Connexin 43 in the blood labyrinth barrier.
Heather Wiedenhoft	Cell signaling modulation of aminoglycoside-induced hair cell death in the zebrafish lateral line.
Charles Williams	Dopamine modulates intrinsic and synaptic properties of neurons in the mouse inferior colliculus.
Patricia Wu	Aminoglycoside comparisons in zebrafish lateral line hair cell toxicity and protection.
Qing Yu	FAK inhibition reduces noise-induced cochlear stress response.