



# The Founders Lectures

Celebrating KHRI Founders and Heritage  
Thursday, October 8, 2020



## Schacht Lecturer

Martha Bagnall, Ph.D.

Assistant Professor of Neuroscience  
Washington University, St. Louis

**9:30 AM: Yehoash Raphael: Introduction**

**9:45 AM: KHRI Fellows and Graduate Students Presentations**

**Luis Cassinotti  
(Corfas)**

Disruption of schwann cell ErbB receptor signaling results in auditory nerve hypomyelination and hidden hearing loss

**Sungsu Lee  
(Raphael)**

Hair cell regeneration in mature ears with Atoh1 and GFI-1 gene transfer

**Robert Doherty  
(Corfas)**

Uncovering the role of ErbB4 intracellular domain signaling using novel mutant mice

**Alex Ford  
(Apostolides)**

The descending auditory system transmits non-auditory information

**Adam Hockley  
(Shore)**

Cochlear nucleus small cells use olivocochlear input to encode stimulus intensity

**Lorraine Horwitz  
(Shore)**

Novel measurements of noise-induced hyperacusis and tinnitus in mice

**Yozo Inagaki  
(Raphael)**

Mouse embryonic stem cells survive in the guinea pig scala media

**Lingchao Ji  
(Corfas)**

Sleep disruption increases cochlear sensitivity to noise via changes in the efferent pathway

**11:45 AM: Break**

**12 Noon: Schacht Lecture**  
**Martha Bagnall: Patterned convergence of vestibular afferents**

**1:00 PM: Martha Bagnall lunch with trainees**

**2:00 PM: KHRI Fellows and Graduate Students Presentations**

**Gerilyn Jones**  
**Travis Riffle**  
**(Shore)**

Relationship of tinnitus to audiogram in somatic tinnitus patients

**Guadalupe Lorenzatti Hiles**  
**(Carey)**

A fantastic beast and where to find it: A tale about HPV and cancer

**David Martel**  
**(Shore)**

Ventral cochlear nucleus bushy cells exhibit hyperacusis-like neural coding after noise-exposure.

**Megan Nelson**  
**(Corfas)**

Poly (ADP-Ribose) polymerase 1 (PARP1) regulates reelin expression in the embryonic brain

**Hannah Oberle**  
**(Apostolides)**

Integration of ascending and descending signals in the non-lemniscal auditory pathway

**Elaine Ritter**  
**(Martin)**

Chromatin remodeler CHD7 in the development of inner ear schwann cells

**Luis Rivera**  
**(Roberts)**

Cholinergic modulation of VIP neurons in the auditory midbrain and its impact on the excitability of thalamic neurons

**Marina Silveira**  
**(Roberts)**

Neuropeptide Y dampens excitability in the inferior colliculus via Y1 receptors

**Shuze Wang**  
**(Waldhaus)**

Mapping the regulatory landscape of auditory hair cells from single cell multi-omics data

**4:15 PM: Conclusions**