

University of Colorado Anschutz Medical Campus

Hearing & Balance Research Cluster



Hearing & Balance Faculty- Cluster Leads

Nate Greene, PhD

- mechanics and physiology of the auditory system
- hearing restoration devices and hearing protective devices
- mechanisms of hearing loss during high level sound exposure.

Katie Rennie, PhD

- electrophysiological properties of type I and type II vestibular hair cells
- synaptic transmission and firing in vestibular afferents
- how peripheral vestibular mechanisms change with age





Hearing & Balance Faculty

-Department of Physiology & Biophysics

Anthony Peng, PhD

- mechanotransduction in the auditory and vestibular systems
- aging mechanisms in the vestibular periphery





- sound localization in the auditory system
- central mechanisms of sound localization in older adults

Achim Klug, PhD

• processing of sound information in the auditory brainstem





Hearing & Balance Faculty/Labs

-Department of Otolaryngology HNS

Anna Dondzillo, PhD

- age-related sensory loss in the auditory and vestibular systems of rodents and humans.
- efferent mechanisms in the cochlea





Hearing & Balance Faculty

Department of Otolaryngology-Neurotology

Samuel Gubbels, MD

 imaging of cochlear implants, hearing preservation in cochlear implantation and skull base surgery, and cochlear implant indications

Stephen Cass, MD MPH

 medical and surgical treatment of adult and pediatric ear disorders

-Department of Pediatrics, Neurology & Pharmacology

Tim Benke, MD PhD

 Synaptic mechanisms in the inner ear and CNS, neurodevelopmental disorders







Hearing & Balance Faculty

-Department of Otolaryngology-Cluster Affiliates

Regie Santos-Cortez, MD PhD

 genetic and epidemiologic factors that influence risk for otolaryngologic diseases, such as otitis media, hearing loss, vestibular disorders and obstructive sleep apnea/sleep-disordered breathing.

Vinaya Manchaiah, AuD PhD

 improving accessibility, affordability, and outcomes of hearing healthcare services for older adults with hearing loss

-Department of Physical Medicine and Rehabilitation

Kristin Uhler, PhD

 language development in children with and without hearing loss





