

VESTIBULAR-ORIENTED RESEARCH MEETING

Abstracts and Posters

The impact of persistent and resurgent voltage-gated sodium currents on excitability in vestibular ganglion neurons

Selina Baeza Loya, Ruth Anne Eatock

Examining the impact of balance-related tasks, with and without a head-referencing device, on working memory task performance in typically-developing children.

Rebecca Benjamin, Sharon Cushing, Alan Blakeman, Jennifer Campos, Blake Papsin, Karen Gordon

Impaired vestibular reflexes response and vestibulo ocular reflex adaptation in a mouse model of spinocerebellar ataxia type 6

Hui Ho Chang, Alanna Watt, Kathleen Cullen

A large body pitch combined with translational motion induces a deviation of subjective haptic vertical in a natural environment

Hui Mei Chow, Lothar Spillmann, Matt Oxner, Kenzo Sakurai, Chia-huei Tseng

Central Vestibular Integration Functions are Associated with Walking Capacity, Balance, Fatigue, and Disease Severity in People with Multiple Sclerosis

Graham Cochrane, Jennifer Christy, Robert Motl

Characterizing responses of distinct body segments used to maintain balance after floor perturbations in typically-developing children

Rebecca Benjamin, Sharon Cushing, Alan Blakeman, Jennifer Campos, Blake Papsin, Karen Gordon

Vestibular-auditory crossmodal aftereffects: the effect of vestibular adaptation on auditory motion perception

Luigi Cuturi, Silvia Zanchi, Monica Gori

Visually induced self-motion (vection) can be altered by cognitive factors and personality traits.

Sarah D'Amour, Laurence Harris, Stefan Berti, Behrang Keshavarz

Fear Avoidance Beliefs Are Associated with Disability in Persons with Vestibular Disorders

Pamela Dunlap, Patrick Sparto, Gregory Marchetti, Joseph Furman, Jeffrey Staab, Anthony Delitto, Brooke Klatt, Susan Whitney

The Effects of Training on Visual-Vestibular Heading Perception and Balance in Older and Younger Adults

Grace Gabriel, Laurence Harris, Denise Henriques, Maryam Pandi, Jennifer Campos

Computational Model of Ephaptic and Potassium Mechanisms of Non-Quantal Transmission at the Vestibular Hair Cell-Calyx Synapse

Aravind Chenrayan Govindaraju, Anna Lysakowski, Ruth Anne Eatock, Robert Raphael

Visual-vestibular conflict detection is modulated by motor signals

Savannah Halow, James Liu, Eelke Folmer, Paul MacNeilage

Whole-Motion 3-D Modeling of Spatial Orientation

Jan Holly, Seungjae Lee, Chido Mpofu

Feasibility of VestAid: A Tablet-based Technology for Objective Exercise Monitoring in Vestibular Rehabilitation

Klatt, BN; Hovareshti, P; Holt, LS; Zalkin, C; Tolani, D; Whitney, SL

Does visually induced motion sickness affect driving performance in virtual reality?

Elizaveta Igoshina, Frank Russo, Robert Shewaga, Bruce Haycock, Behrang Keshavarz

The perception of object velocity is biased and less precise during visually induced self-motion

Björn Jörges, Laurence Harris

Does Migraine Affect BPPV? A Retrospective Analysis of Severity, Recurrence, and Falls

Eric Kim, Lauren Pasquesi, Jeffrey Sharon

Perception of translation and the impact of orientation and gravity

Megan Kobel, Daniel Merfeld

In patients diagnosed with posterior BPPV, how effective are different BPPV-repositional maneuvers when complete resolution of symptoms is required?

Sebastian Hygum Valsted, Andreas Larsen

Investigating neural encoding in the vestibular nuclei using neuropixel probes

Aamna Lawrence, Hui Ho Vanessa Chang, Kathleen Cullen

Nonhuman primates provide a platform for postural testing in health, vestibular loss, and with vestibular implants

Olivia Leavitt, Charles Della Santina, Kathleen Cullen

Computerized Rotational Head Impulse Test: Test-Retest Reliability using a head-fixed target

Roxanne Loock, Barbara Heinze, Alex Kiderman, Jorge González

Bouton afferent terminals activity from mouse utricle

Omar Lopez-Ramirez, Antonia Gonzalez-Garrido, Ruth Anne Eatock

The reduction in the velocity storage time constant due to unilateral hypofunction is a response to changing peripheral signal-to-noise characteristics

Amsal Madhani, Faisal Karmali, Richard Lewis

Optical Coherence Tomography Imaging of the Murine Vestibular System

Govindaraju AC, Majid M, Raphael RM

KV1.8 potassium channels in mouse vestibular hair cells

Martin HR, Lumbreras V, Pregernig G, Negi S, So KS, Kowalczyk M, McCarthy R, Palermo AT, Price SD, Lysakowski A, Burns JC, Eatock RA

How differences in perceived orientation affect visual self-motion and the perceptual upright

Meaghan McManus, Laurence Harris

Multisensory effects on illusory self-motion (vection): The role of visual, auditory, and tactile cues

Brandy Murovec, Julia Spaniol, Jennifer Campos, Behrang Keshavarz

Age, motion cues, and baseline vestibular functioning predict driving performance in a simulated driving task

Robert Nowosielski, Bruce Haycock, Behrang Keshavarz, Jennifer Campos

Defining the vestibulopathy of vestibular migraine: ictal and interictal changes on neurovestibular testing

John Oas

Modelling the effect of gravity on Periodic Alternating Nystagmus

Ari Shemesh, Koray Kocoglu, Gülden Akdal, Rahmi Tümay Ala, G. Michael Halmagyi, David Zee, Jorge Otero-Millan

Dopamine decreases voltage-gated sodium currents in vestibular calyx terminals

Frances Meredith, Katherine Rennie

Objective detection of vestibular evoked myogenic potentials

Daniel Romero, Erin Piker, Christopher Zalewski, Christopher Clinard

A Pragmatic Approach to Multisensory Fusion for Body Spatial Awareness

Bridgett Wallace, Fernando Santos

Modeling the Interaction among Three Cerebellar Disorders of Eye Movements: Periodic Alternating, Gaze-evoked and Rebound Nystagmus

Ari Shemesh, Koray Kocoglu, Gülden Akdal, Rahmi Tümay Ala, G. Michael Halmagyi, David Zee, Jorge Otero-Millan

Characterization of human head orientation during natural behavior

Christian Sinnott, Peter Hausamann, Paul MacNeilage

Response of the Vestibular System to Microgravity Environments

John Sommerfeldt

The improvement potential of the vestibular patient according to the saccade classification

Liraz Tencer-Lagziel, Eli Carmeli, Hadas Ben Rubi Shimron, Oz Zur

Vestibular Noise as a Predictor of Postural Sway

Andrew Wagner, Megan Kobel, Daniel Merfeld

Modulation of deep mesencephalic nucleus to locomotion in rhesus monkeys

Rui-Han Wei, Erez Gugig, Oliver Stanley, Kathleen Cullen

Robust biases in the estimation of yaw rotation and the potential influence of auditory landmarks

Silvia Zanchi, Luigi Cuturi, Giulio Sandini, Monica Gori

Changes in behavioral features after vestibular rehabilitation

Liraz Tencer-Lagziel, Oz Zur, Eli Carmeli



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