SPLASH 2023 Posters

Janaki Sheth, Jared Collina, Eugenio Piasini, Konrad Kording, Yale Cohen, Maria Geffen (University of Pennsylvania) *The Interplay of Relevance, Uncertainty and Statistical Learning Influences Auditory Categorization*

Celine Drieu, Ziyi Zhu, Aaron Wang, Kylie Fuller, Sarah Elnozahy, Joy Wang, Kishore Kuchibhotla (Johns Hopkins University) *Revealing latent knowledge in cortical networks during goal-directed learning*

Kali Burke, Athanasios Alexandris, Vassilis Koliatsos, Amanda Lauer (Johns Hopkins University) *Dynamic Changes in Auditory Sensitivity After Impact Acceleration Traumatic Brain Injury*

Sharlen Moore (Johns Hopkins University) *From goals to habits: revealing abrupt transitions in the control of auditory decision-making in mice*

John Magnotti ,Yue Zhang, Johannes Rennig, Michael Beauchamp (University of Pennsylvania) *A neural signature in superior temporal cortex of individual differences in noisy speech perception*

Indra Pal, Mark A. Rutherford, Atri Bhattacharyya, Maolei Xiao, Maria E. Rubio (University of Pittsburgh) *GluA3 subunit of AMPA Receptors are Required to Prevent Synaptopathy at Inner Hair Cell Ribbon Synapses in Female Mice*

Xiang Zhang, Zhengjia Wang, John Magnotti, Michael Beauchamp (University of Pennsylvania) *Hierarchical clustering of iEEG responses to speech in human auditory cortex*

Nathan Vogler, Ruoyi Chen, Alister Virkler, Violet Tu, Tyler Ling, Jay Gottfried, and Maria Geffen (University of Pennsylvania) *Cortical mechanisms for integration of auditory and olfactory information*

James Baldassano, Katrina MacLeod (University of Maryland, College Park) *Cell-type specific circuitry of the inhibitory avian superior olivary nucleus*

Katherine Wood, Maria N Geffen (University of Pennsylvania) *Understanding How Cortex Supports Flexible Sensory Representations*

Dayo Adewole, Jason A. Brant, D. Kacy Cullen (University of Pennsylvania) *Neural Tissue Engineering Strategies for Auditory Rehabilitation*

Dushyanthi Karunathilake, Joshua P. Kulasingham, Jonathan Z. Simon (University of Maryland College Park) *Neural Tracking Measures of Speech Intelligibility: Manipulating Intelligibility while Keeping Acoustics Unchanged*

Lu Chen, Qiaojie Xiong (Stony Brook University) Neurovascular coupling in auditory striatum during learning Aysegul Gungor Aydin, Michael S. Chimenti, Kevin L. Knudtson, Kasia M. Bieszczad (Rutgers University) *Transcriptional changes within the adult auditory system contribute to the experience-dependent neurophysiological encoding of temporal acoustic cues underlying memory for AM sounds*

Aayushi Sangani, John Magnotti, Yue Zhang, Michael Beauchamp (The University of Pennsylvania) *The timing of talker's mouth movements drives iEEG responses in foveal visual cortex.*

Vrishab Commuri, Joshua P. Kulasingham, Jonathan Z. Simon (University of Maryland College Park) *Selective attention and cortical responses to continuous speech*

Alex Clonan, Xiu Zhai, Ian H. Stevenson, Monty A. Escabí (University of Connecticut) *Modeling and Predicting Human Perceptual Sensitivity of Speech Recognition in Natural Environmental Noise*

Olivia Lombardi, Jack Toth, Blake Sidleck, Priya Agarwal, Tiange Hou, Danyall Saeed, Dylan Leonard, Abraham Eldo, Michele Insanally (University of Pittsburgh) *Dynamic gating of perceptual flexibility by diverse cortical responses*

Jack Toth, Michele Insanally, Badr Albanna, Brian DePasquale, Saba Shokat Fadaei, Olivia Lombardi, Trisha Gupta, Kishore Kuchibhotla, Kanaka Rajan, Robert C. Froemke (University of Pittsburgh) *Contributions and synaptic basis of diverse cortical neuron responses to task performance*

Behrad Soleimani, Behrad Soleimani, I.M. Dushyanthi Karunathilake, Proloy Das, Stefanie E. Kuchinsky, , Behtash Babadi, Jonathan Z. Simon (University of Maryland) *Age-related Changes in Cortical Directional Connectivity during Difficult Speech Listening*

Sadia Rahman, Hysell Oviedo (The City College of New York) *Auditory processing deficits in Msh2-KO mice are linked to aberrant inhibitory neuron function in the thalamic reticular nucleus*

Guan-En Graham, Liesl Co, Michael S. Chimenti, Kevin L. Knudtson, Devin N. Grenard, Madelyn Sumner, Timothy Tchou, Kasia M. Bieszczad (Rutgers University) *Sound discrimination learning-induced transcriptional changes within the auditory cortex*

Rose Ying, Lashaka Hamlette, Laudan Nikoobakht, Rakshita Balaji, Nicole Miko, Melissa L. Caras (University of Maryland) *Organization of orbitofrontal-auditory pathways in the Mongolian gerbil*

Regan Fair, Regan Fair, Samer Masri, Dan H. Sanes (New York University) *Hearing Loss-Induced Perceptual Deficits are Rescued by Restoring Synaptic Inhibition*

Marielisa Diez Castro, Catalin Mitelut, Ralph E. Peterson, Maria Goncalves, Dan H. Sanes (New York University) *Family vocalization rate remains stable as pups begin to forage*

Nilay Atesyakar, Andrea Shang, Kasia M. Bieszczad (Rutgers University) *Listening for learned sound-reward cues in a background of noise impacts the enhancing effects of epigenetic mechanisms on the formation of highly precise auditory memory and cortical plasticity*

Basilio Furest Cataldo, Paige Dadika, Jaidyn Schaer, David Vicario (Rutgers University) *Ontogeny of Lateralization and the Effects of Developmental Auditory Experience in the Zebra Finch*

Christine Junhui Liu, Lucas G. Vattino, Cathryn MacGregor, Carolyn Sweeney, Maryse Thomas, and Anne Takesian (Harvard University / Mass Eye and Ear) *Superficial inhibitory neurons in auditory cortex receive monosynaptic inputs from diverse subregions of the medial geniculate body*