**2022 J.B. Johnston Club for Evolutionary Neuroscience Annual Meeting**

**November 11, 2022**

**San Diego, CA**

**8:30-8:40 Introduction/Welcome** Program Committee

**8:40-8:58** **Macroevolution of the primate entorhinal cortex**

David Vanier and Jeroen Smaers

**8:58-9:16 Too hot to handle? Effects of increased temperature on brain and sensory development in the Port Jackson Shark (*Heterodontus portusjacksoni*)**

Emily E. Peele, Culum Brown, Charlie Huveneers, and Kara E. Yopak

**9:16-9:34 Integrating neuroplasticity and evolution**

Caleb J. Axelrod, Swanne P. Gordon, and Bruce A. Carlson

**9:34-9:52 One ascending visual pathway to the telencephalon in the medaka, a percomorph fish**

Hanako Hagioand Naoyuki Yamamoto

**9:52-10:10 Coffee Break** (18 min)

**10:10-10:28 Differential distributions of otpa-protein versus *lhx5*-, *lhx6*, and *isl1*-driven GFP define the extended medial amygdala in zebrafish**

Thomas Mueller

**10:28-10:46 A shared regulatory pathway in neural stem and neural crest cells: implications for cell proliferation and neurodevelopmental disease pathogenesis**

Amalia J. Napoli, Sarah Schubel, Josiah D. Zoodsma, Lonnie P. Wollmuth, and Howard I. Sirotkin

**10:46-11:04 Hearing vibrations: the auditory nerve and first-order cochlear nuclei of the Western ratsnake (*Pantherophis obsoletus*)**

Dawei Hanand Catherine Carr

**11:04-11:22 Adult neurogenesis in turtles increases during classical fear conditioning**

Alice S. Powers

**11:22-12:00 Discussion on diversity in JBJC**

**12:00-1:30 Lunch Break**

**1:30-2:30 Karger Invited Speaker: Bernard Crespi**

**2:30-2:48 Various modes of whole brain and cerebellum size evolution in conjunction with shifting body plan in Lepidosaurs**

Christopher P. Heesy and Leigha M. Lynch

**2:48-3:06 What hangs with what in various mammalian brains**

William Grisham, Wei Cai, and Trisha G. Mukherjee

**3:06-3:24 Movement representations in the primary somatosensory cortex (S1) of the greater galago *Otolemur garnetti* elicited by intracortical microstimulation**

Andrew C. Halley, Hui-Xin Qi, Jamie L. Reed, Iwona Stepniewska, Qimeng Wang, Jon H. Kaas, and Leah Krubitzer

**3:24-3:42 Break** (18 min)

**3:42-4:00 Identifying the neural substrate of vocal learning in cetaceans: a comparative transcriptomic approach**

Brigid Maloney, Ksenia Orekhova, Gregory Gedman, Matthew Biegler, Marcelo Magnasco, and Erich D. Jarvis

**4:00-4:18 As strong as an ox? mTBI-like tau accumulation in brains of headbutting muskoxen**

Nicole L. Ackermans, Merina Varghese, Enna Selmanovic, Joy S. Reidenberg,

and Patrick R. Hof

**4:18-4:36 Covariation of skull and brain morphology in domestic dogs**

Sophie A. Barton, Marc Kent,and Erin E. Hecht

**4:36-4:54 Biophysical modeling of leech mechanosensation suggests cilia are tuned to the least dispersive components of surface waves**

Bruno Mota, Faye Piephoff, Cynthia Harley, and Brian Taylor

**4:54-5:30 Business meeting and recognition of Karger awardees**