

2021 Annual Meeting of the J.B. Johnston Club for Evolutionary Neuroscience
November 12, 2021

- 7:30-8:30** **Breakfast**
- 8:30-8:45** **Introduction/Welcome, Program Committee**
- 8:45-9:00** **Akinobu Watanabe, Mariel Bedell, Scott Landman, Sylvia S. Marshall, Yekaterina Okouneva, and Paul M. Gignac**
Polish crested chickens: a new comparative model for studying the evolution of aberrant brains and skulls
- 9:00-9:15** **Kelsey J. Racicot, Jackson R. Ham, C. Popic, Rie Henriksen, Dominic Wright, and Andrew N. Iwaniuk**
Chickens have smaller visual and limbic brain regions than junglefowl: effects of domestication on the brain
- 9:15-9:30** **Cristian Gutiérrez-Ibáñez, Clara Amaral, Douglas R. Wylie, and Jerome Baron**
The evolution of skilled hindlimb movements in birds
- 9:30-9:45** **Loranzie S. Rogers and, Joseph A. Sisneros**
Seasonal plasticity of utricular hair cell auditory sensitivity in the plainfin midshipman
- 9:45-10:00** **Amalia J. Napoli, Josiah D. Zoodsma, Bismi Biju, Olgerta Mucollari, Sarah Schubel, Aaliya Sayed, Lonnie P. Wollmuth, and Howard I. Sirotkin**
NMDA receptor activity differentially affects zebrafish neural stem cells
- 10:00-10:15** **Break**
- 10:15-10:30** **Darcy B. Kelley, Young Mi Kwon, Elizabeth G. Bagnato-Conlin, Emilie Perez, Avelyne Villain, Christa Baker, Mala Murthy, and Andres Bendesky**
Uncovering genetic architectures of neural circuits for an innate behavior: Xenopus vocal communication
- 10:30-10:45** **David Vanier, Jeroen Smaers, and Paul Manger**
The macroevolution of a substrate for representational memory in mammals
- 10:45-11:00** **Luiz Pessoa, Loreta Medina, and Ester Desfilis**
Mental categories and the vertebrate brain: The neural basis of behavior
- 11:00-11:15** **Ross S. DeAngelis, Marisa Ballard, and Hans A. Hofmann**
Pair bonding and parental care: how does an evolutionarily conserved social decision-making network integrate conflicting social stimuli to generate context-appropriate behavior?
- 11:15-11:30** **Max S. Farnworth, and S.H. Montgomery**
Trade-offs are not a mechanism for sensory organ and brain evolution
- 11:30-11:45** **Shyam Srinivasan, and Saket Navlakha**
Conserved stochastic algorithms for learning and discrimination
- 11:45-13:15** **Lunch**
- 13:15-13:30** **Pierre Estienne, Jean-Michel Hermel, and Kei Yamamoto**
Encephalization in teleost fishes: yet another way of allowing complex behaviors?

- 13:30-13:45 Daniel Hoops, Jason Lerch, and John Sled**
Parceling out the brain: allometry and encephalization deconstructed
- 13:45-14:00 Laurel R. Yohe, Matteo Fabbri, and Bhart-Anjan Bhullar**
Paleoneurobiology of the tetrapod olfactory bulb inferred from extant olfactory receptor repertoires
- 14:00-14:15 Kei Yamamoto**
Re-interpretation of pallial regionalization in vertebrates
- 14:15-14:30 Jiawei “Will” Han, and Hans A. Hofmann**
Evolutionary transcriptomics of the subpallial amygdala across twelve species of vertebrates
- 14:30-14:45 Wensheng Liu, and Jeroen B. Smaers**
Significant cerebellar reorganization at the marsupial-placental dichotomy
- 14:45-15:00 Carmen Falcone, Erin L. McBride, Patrick R. Hof, William D. Hopkins, Paul R. Manger, Chet C. Sherwood, Stephen C. Noctor, and Verónica Martínez-Cerdeño**
Redefining varicose projection astrocytes in primates
- 15:00-15:15 Break**
- 15:15-15:30 K. Heuer, N. Traut, S.N. Pashaki, R. Mylapalli, F. Alavi, and R. Toro**
Phylogenetic and neuroanatomical determinants of primate behavior
- 15:30-15:45 Andrew C Halley, Michael Yartsev, and Leah Krubitzer**
Tip of the tongue: the evolution of motor cortex for lingual echolocation in the Egyptian fruit bat (*Rousettus aegyptiacus*)
- 15:45-16:00 James C. Dooley, G. Sokoloff, and M. S. Blumberg**
Coordinated activity in primary motor cortex and the red nucleus first emerges during REM sleep-associated theta oscillations in preweanling rats
- 16:00-16:15 Kwadwo Ofori, and C. J. Charvet**
Structural and transcriptomic data reveals very old age as a distinct feature in humans relative to great apes
- 16:15-16:30 Werner M. Graf**
Visual and vestibular guided control of posture, movement and self-motion perception across species
- 16:30-16:45 Georg F. Striedter**
Comparative biomedicine: the devil lurks in the details
- 16:45-17:00 Break**
- 17:00-17:10 Karger Award: Grace Capshaw**
- 17:10-17:20 Mark Bradford: In Memory of Laura Bruce**
- 17:20-18:00 Business Meeting**
- 18:00-21:00 Reception**