Editors:

Jennifer Vonk Department of Psychology Oakland University 654 Pioneer Drive Rochester MI 48309 animalbehaviorandcognition@gmail.com

Michael J. Beran Department of Psychology Language Research Center Georgia State University University Plaza Atlanta, GA 30302 animalbehaviorandcognition@gmail.com

Associate Editor:

Mark A. Krause Department of Psychology Southern Oregon University 1250 Siskiyou Blvd Ashland, OR 97520 krausema@sou.edu

Editorial Advisory Board:

Ikuma Adachi, Kyoto University, Japan Christian Agrillo, University of Padova, Italy Jason Bruck, Oklahoma State University, USA Thomas Bugnyar, University of Vienna, Austria Fay Clark, Bristol Zoo, UK Caroline DeLong, Rochester Institute of Technology, USA Justin Gregg, Dolphin Communication Project, USA Martine Hausberger, University of Rennes, France Lauren Highfill, Eckerd College, USA Heather Hill, St. Mary's University, USA Corina Logan, University of Cambridge UK - Max Planck, Germany Suzanne MacDonald, York University, Canada Eduardo Mercado, University at Buffalo, USA Ádám Miklósi, Eötvös University, Hungary Robert Mitchell, Eastern Kentucky University, USA Mathias Osvath, Lund University, Sweden Audrey Parrish, The Citadel, USA Sergio Pellis, University of Lethbridge, Canada Josh Plotnik, Hunter College, City University of New York, USA Darby Proctor, Florida Institute of Technology, USA Anne Russon, York University, Canada Marek Špinka, Institute of Animal Science, Czechia Masaki Tomonaga, Kyoto University, Japan Shige Watanabe, Keio University, Japan Jason Watters, San Francisco Zoological Society, USA Deirdre Yeater, Sacred Heart University, USA

Editorial Assistants:

Holli Eskelinen, Pepper Hanna, Lauren Miller

Webmaster: Unicus, LLC

ABC logo and cover designed by Unicus, LLC Cover: Adult male green monkey Photo credit: Julia Fischer



Animal Behavior and Cognition

2020, Volume 7, Number 2

Special Issue – Communication in Nonhumans: The Forty Year Anniversary of Seyfarth, Cheney and Marler

- 82 Forty Years on from the Question of Referential Signals in Nonhuman Communication *Jennifer Vonk*
- 87 Vervet Monkey Alarm Calls: Setting the Historical Context *Charles T. Snowdon*
- 95 Vocal Communication in Nonhuman Animals: View from the Wings *Irene M. Pepperberg*
- 101 Monkey Alarm Calling: It Ain't all Referential, or is It? *Claudia Fichtel*
- 108 Nonhuman Primate Alarm Calls Then and Now *Julia Fischer*
- 117 Primate Pragmatics, Expressive Behavior and the Evolution of Language *Kate Arnold & Dorit Bar-On*
- 131 Call Combinations in Great Apes and the Evolution of Syntax Maël Leroux & Simon W. Townsend
- 140 Can Nonhuman Primate Signals be Arbitrarily Meaningful like Human Words? An Affective Approach *Christine Sievers & Thibaud Gruber*
- 151 Segmental Units in Nonhuman Animal Vocalization as a Window into Meaning, Structure, and the Evolution of Language Dan C. Mann & Marisa Hoeschele

- 159 How Environment Can Reveal Semantic Capacities in Nonhuman Animals Heidi Lyn & Jennie L. Christopher
- 168 A Review of Squirrel Alarm-Calling Behavior: What We Know and What We Do Not Know About How Predator Attributes Affect Alarm Calls *Thaddeus R. McRae*
- 192 Evolving Views on Cognition in Animal Vocal Communication: Contributions from Scream Research Jay W. Schwartz, Jonathan W.M. Engelberg & Harold Gouzoules
- 214 What Makes a 'Community Informant'? Reliability and Anti-predator Signal Eavesdropping Across Mixed-Species Flocks of Tits *Nora V. Carlson, Susan D. Healy, & Christopher N. Templeton*
- 247 Discrimination of black-capped chickadee (*Poecile atricapillus*) chick-a-dee calls produced across seasons *Erin N. Scully, Kimberly A. Campbell, Jenna V. Congdon & Christopher B. Sturdy*
- 257 Listening to the Appeal from the Wild *Christophe Boesch*