

*Oxford Handbooks* offer authoritative and up-to-date reviews of original research in a particular subject area. Specially commissioned chapters from leading figures in the discipline give critical examinations of the progress and direction of debates, as well as a foundation for future research. *Oxford Handbooks* provide scholars and graduate students with compelling new perspectives upon a wide range of subjects in the humanities, social sciences, and sciences.

**Advance praise for *The Oxford Handbook of Comparative Cognition***

"Zentall and Wasserman have put together a comprehensive collection of the latest research on nearly every aspect of animal cognition. This is an essential text for those interested in the comparative and evolutionary study of fundamental cognitive processes. Psychologists, developmentalists, and neurobiologists will deeply appreciate this essential resource."

**Peter Balsam**, Professor of Psychology, Columbia University

"This handbook provides a detailed and comprehensive review of what we know about the cognitive skills of a broad range of animal species. Although the field of comparative cognition originated with Darwin, significant progress had to await methodological and theoretical advances that were achieved only in recent decades. With these advances, comparative cognition is now tackling issues ranging from perception and attention to timing, spatial cognition, serial position learning, problem solving, and tool use. Whether one is interested in these new topics or the current status of some of the older topics, there is no better source for a cogent and up-to-date summary than *The Oxford Handbook of Comparative Cognition*."

**Michael Domjan**, Professor of Psychology, The University of Texas at Austin

"This volume is a comprehensive overview of the broad spectrum of research in the vibrant, exciting field of comparative cognition, focusing on behavioral adaptation and its evolution in the animal kingdom. Readers will gain both an appreciation for the seminal ideas and common themes in the field, as well as a glimpse into cutting-edge current research. Suitable for advanced undergraduates, graduate students, as well as researchers in the field, this should be required reading for anyone interested in how animals think."

**Suzanne MacDonald**, Professor and Chair, Department of Psychology, York University

**Contributors:** Jerome Alessandri, Ulrike Aust, Isabelle Barbet, Kim A. Bard, Michael J. Beran, Aaron P. Blaisdell, Donald S. Blough, Elizabeth M. Brannon, Michael F. Brown, Ken Cheng, Russell M. Church, N. S. Clayton, Tricia S. Clement, Robert G. Cook, Justin J. Couchman, Jonathon D. Crystal, Lewis Dean, S. R. De Kort, Juan D. Delius, Julia A. M. Delius, Nicholas K. DeWind, Nicole R. Dorey, Karen E. Doyle, Howard Eichenbaum, N. J. Emery, Martha Escobar, Joël Fagot, J. Gregor Fetterman, Norbert Fortin, Stephen B. Fountain, Dorothy Frigaszy, Thane Fremouw, Andrea M. Friedrich, Kazuo Fujita, Bennett G. Galef, Brett Gibson, Walter Herbranson, Marisa Hoeschele, Will Hopppitt, Ludwig Huber, Stewart H. Hulse, Greg Jensen, Masako Jitsumori, Debbie M. Kelly, Raymond P. Kesner, Robert Komorowski, Daisuke Kosugi, Stan A. Kuczaj II, Shannon M. A. Kunder, Kevin N. Laland, Olga F. Lazareva, Tetsuro Matsuzawa, Dustin J. Merritt, Douglas J. K. Mewhort, Claire Miller, Ralph R. Miller, Yuo Mizuno, Andrea M. Morris, Melissa D. Muller, Masako Myowa-Yamakoshi, Allen Neuringer, Sanae Okamoto, Carole Parron, Laura R. G. Pickens, Daniel J. Povinelli, Elizabeth E. Price, Luke Rendell, William A. Roberts, Jonathan Robitsek, James D. Rowan, Magdalena Sauvage, Charles P. Shimp, Rebecca A. Singer, J. David Smith, Marcia L. Spetch, Christopher B. Sturdy, Lauren A. Tagliatela, Masayuki Tanaka, Herbert Terrace, Masaki Tomonaga, Monique A. R. Udell, Giorgio Vallortigara, Jennifer Vonk, Michael R. Waldmann, Rachel T. Walker, David A. Washburn, Edward A. Wasserman, Shigeru Watanabe, Mike M. Webster, Christy S.S. Weeden, Ronald G. Weisman, Andrew Whiten, Anthony A. Wright, Clive D. L. Wynne, Masami K. Yamaguchi, Michael E. Young, Thomas R. Zentall

**OXFORD**  
UNIVERSITY PRESS

[www.oup.com](http://www.oup.com)

ISBN 978-0-19-539266-1



9 780195 392661