

Fourth Edition

# Behavioural Ecology

An Evolutionary Approach

EDITED BY

J. R. Krebs & N. B. Davies



# Behavioural Ecology An Evolutionary Approach

**Puja Mehta**

A decorative red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

## **Behavioural Ecology An Evolutionary Approach:**

**Behavioural Ecology** John R. Krebs, Nicholas B. Davies, 2009-07-17 Intended for graduate and upper level undergraduate courses in behavioural ecology where students are already familiar with the basic ideas this book continues to define the subject. A completely new set of contributions has been brought together once more to take account of the many exciting new developments in the field. Each chapter presents a balanced view of the subject integrating a clear exposition of the theory with a critical discussion of how predictions have been tested by experiments and comparative studies. In addition the book points to unreconciled issues and possible future developments. Edited by two of the most highly regarded experts in the field this new volume contains contributions from an international authorship and continues the tradition of clarity and accessibility established by the three previous editions. The latest edition of a classic in behavioural ecology. Divided into three sections: Mechanisms and Individual Behaviour, From Individual Behaviour to Social Systems and Life Histories, Phylogenies and Populations. Contributions from the world's leading researchers.

**Animal Behaviour: Evolution and Mechanisms** Nils Anthes, Peter M. Kappeler, Ralph Bergmüller, Wolf Blanckenhorn, H. Jane Brockmann, Claudia Fichtel, Lutz Fromhage, Joachim Frommen, Wolfgang Goymann, Juergen Heinze, Katharina Hirschenhauser, Heribert Hofer, Sylvia Kaiser, Bart Kempenaers, Gerald Kerth, Judith Ingrid Korb, Kurt M. Kotrschal, Cornelia Kraus, Martha Manser, Nico Michiels, Robin F. A. Moritz, Mario Pahl, Dustin Penn, Norbert Sachser, Martin Schaefer, Carel P. van Schaik, Jutta M. Schneider, Isabella Schreiber, Michael Taborsky, Jürgen Tautz, Fritz Trillmich, Shaowu Zhang, 2010-04-03 This up to date review examines key areas of animal behaviour including communication, cognition, conflict, cooperation, sexual selection and behavioural variation. Various tests are covered including recent empirical examples.

**An Introduction to Behavioural Ecology** Nicholas B. Davies, John R. Krebs, 2009-07-17 The third edition of this successful textbook looks again at the influence of natural selection on behavior: an animal's struggle to survive by exploiting resources, avoiding predators and maximizing reproductive success. In this edition new examples are introduced throughout, many illustrated with full color photographs. In addition important new topics are added including the latest techniques of comparative analysis, the theory and application of DNA fingerprinting, techniques, extensive new discussion on brood parasite host coevolution, the latest ideas on sexual selection in relation to disease resistance and a new section on the intentionality of communication. Written in the lucid style for which these two authors are renowned, the text is enhanced by boxed sections illustrating important concepts and new marginal notes that guide the reader through the text. This book will be essential reading for students taking courses in behavioral ecology. The leading introductory text from the two most prominent workers in the field. Second colour in the text. New section of four colour plates. Boxed sections to illustrate difficult and important points. New larger format with marginal notes to guide the reader through the text. Selected further reading at the end of each chapter.

**Animal Behavior** John Alcock, 2013-07-01 The tenth edition features a major reorganisation focusing first on the

evolutionary basis of behavior followed by the underlying proximate mechanisms Enduring features of previous editions also remain the clear engaging writing style the beautifully illustrated text with many new photographs and numerous references to new scientific articles

**Behavioral Ecology** N. B. Davies, J. R. Krebs, 1991 *An Introduction to Behavioural Ecology* Nicholas B. Davies, John R. Krebs, Stuart A. West, 2012-04-09 Preceded by An introduction to behavioural ecology J R Krebs N B Davies 3rd ed c1993

**Behavioral Mechanisms in Evolutionary Ecology** Leslie Real, 1994-12-15 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal's behavior and its environment By focusing on biological mechanisms the sum of an animal's cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution

**Behavioural Ecology** Etienne Danchin, Luc-Alain Giraldeau, Frank Cézilly, 2008-02-14 Behavioural Ecology gives a fresh contemporary account of the evolutionary and ecological processes that underpin animal behaviour Contributions from subject experts and meticulous editing yield a text with all the qualities of a multi author book but without the potential drawbacks

**Evolutionary Ecology and Human Behavior** Eric Alden Smith, 2017-09-29 required reading for anyone interested in the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve both as a text book and as a scholarly reference American Scientist

**Animal Behaviour** Peter M. Kappeler, 2022-01-26 This textbook presents all basic principles of animal behaviour in a clear and concise manner and illustrates them with up to date examples Emphasis is placed on behavioural biology as an integrative discipline of organismic biology focusing on the adaptive value of behaviours that facilitate resource access predator avoidance and reproductive success and underlie parental care all within a comprehensive presentation of social complexity This new textbook provides a rich resource for students and teachers from a wide range of life science disciplines

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