



Peter Kappeler (Ed.)

Animal Behaviour: Evolution and Mechanisms

 Springer

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David Kirk



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[Animal Behavior](#) Lee C. Drickamer, Stephen H. Vessey, Doug Meikle, 1996 [The Behavior of Animals](#) Johan J. Bolhuis, Luc-Alain Giraldeau, Jerry A. Hogan, 2021-12-08 The Behavior of Animals An updated view of animal behavior studies featuring global experts The Behavior of Animals Second Edition provides a broad overview of the current state of animal behavior studies with contributions from international experts This edition includes new chapters on hormones and behavior individuality and human evolution All chapters have been thoroughly revised and updated and are supported by color illustrations informative callouts and accessible presentation of technical information Provides an introduction to the study of animal behavior Looks at an extensive scope of topics from perception motivation and emotion biological rhythms and animal learning to animal cognition communication mate choice and individuality Explores the evolution of animal behavior including a critical evaluation of the assumption that human beings can be studied as if they were any other animal species Students will benefit from an updated textbook in which a variety of contributors provide their expertise and global perspective in specialized areas

[Animal Behavior: Mechanisms, Ecology, Evolution](#) Lee C. Drickamer, Stephen H. Vessey, Elizabeth Jakob, 2001-07-17 Designed for a one semester introductory course in Animal Behavior Animal behavior is a broad discipline with investigators and contributions from diverse perspectives including anthropology comparative psychology ecology ethology physiology and zoology The authors goal in this textbook is to use evolutionary principles as a unifying theme to provide students exposure to a number of approaches to the field of animal behavior They also demonstrate that the varied perspectives used to study

behavior are complementary and often integrated they are not mutually exclusive The subtitle Mechanisms Ecology and Evolution reflects the broad themes that dominate the book *Animal Behaviour* Christopher J. Barnard,2004 This text provides an introduction to the study of behaviour from its basis in the animal s anatomy and physiology to its adaptive value in the environment Chris Barnard provides comprehensive coverage of the four major levels of enquiry mechanism development function and evolution **Behavioral Mechanisms in Evolutionary Ecology** Leslie Real,1994-11-30 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 **Animal Behaviour** ,2004 **Evolution of Learning and Memory Mechanisms** Mark A. Krause,Karen L. Hollis,Mauricio R. Papini,2022-05-19 This book examines how evolution influences learning and memory processes in both human and nonhuman animals **Animal Behavior** Lee C. Drickamer,1992 **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 *The Evolution of Primate Societies* John C. Mitani,Josep Call,Peter M.

Kappeler, Ryne A. Palombit, Joan B. Silk, 2012-10-24 In 1987 the University of Chicago Press published *Primate Societies* the standard reference in the field of primate behavior for an entire generation of students and scientists But in the twenty five years since its publication new theories and research techniques for studying the Primate order have been developed debated and tested forcing scientists to revise their understanding of our closest living relatives Intended as a sequel to *Primate Societies* *The Evolution of Primate Societies* compiles thirty one chapters that review the current state of knowledge regarding the behavior of nonhuman primates Chapters are written by the leading authorities in the field and organized around four major adaptive problems primates face as they strive to grow maintain themselves and reproduce in the wild The inclusion of chapters on the behavior of humans at the end of each major section represents one particularly novel aspect of the book and it will remind readers what we can learn about ourselves through research on nonhuman primates The final section highlights some of the innovative and cutting edge research designed to reveal the similarities and differences between nonhuman and human primate cognition *The Evolution of Primate Societies* will be every bit the landmark publication its predecessor has been *The Evolution of Social Behaviour* Michael Taborsky, Michael A. Cant, Jan Komdeur, 2021-08-26 First book to outline the fundamental principles of social evolution underlying the stunning diversity of social systems and behaviours **Encyclopedia of Animal Behavior** , 2009-04-01 The *Encyclopedia of Animal Behavior* Three Volume Set has engaged with great success the efforts of many of the best behavioral biologists of the 21st century Section editors drawn from the most accomplished behavioral scientists of their generation have enrolled an international cast of highly respected thinkers and writers all of whom have taken great care and joy in illuminating every imaginable corner of animal behavior This comprehensive work covers not only the usual topics such as communication learning sexual selection navigation and the history of the field but also emerging topics in cognition animal welfare conservation and applications of animal behavior The large section on animal cognition brings together many of the world s experts on the subject to provide a comprehensive overview of this rapidly developing area Chapters relating to animal welfare give a full view of behavioral interactions of humans with companion animals farm animals and animals in the wild The key role of animal behavior in conservation biology receives broad attention including chapters on topics such as the effects of noise pollution captive breeding and how the behavioral effects of parasites interacts with conservation issues Animal behavior in environmental biology is highlighted in chapters on the effects of endocrine disruptors on behavior and a large number of chapters on key species such as wolves chimpanzees hyenas and sharks Clear accessible writing complements a wealth of information for undergraduate college students about the essential concepts of animal behavior and the application of those concepts across the field In depth coverage of concepts methods and exemplar organisms serves the needs of graduate students and professionals in the field From the use of behavior in assessing the welfare of pigs to the social behavior of insects from animal empathy to bat brains this authoritative reference with its in depth introductory articles rich array of

illustrations interactive cross referenced links and numerous suggested readings can guide the student or the professional to an expanded appreciation of the far flung world of animal behavior An invaluable tool for teaching and a source of enrichment and detail for any topic covered in an animal behavior course the Encyclopedia of Animal Behavior is the definitive reference work in its field and will be for years to come Comprehensive work which covers the usual topics along with emerging areas of animal behavior This encyclopedia contains clear accessible writing and is well illustrated including an online video complimenting a wealth of information As an online reference this work will be subject to period updating This ensures that the work always remains current Contains in depth introductions to the material that make each well illustrated section come alive with the best the new content the discipline has to offer Glossary includes a compendium of behavioral terms that form a succinct mosaic of virtually every concept and phenomenon related to animal behavior Section editors drawn from around the world represent the best and the brightest among today s behavioral biologists and have recruited a broad range of internationally recognized experts Editors in Chief are experienced scientists and writers who between them have authored or edited eight books and teach courses in animal behavior at their respective universities

Geographic Variation in Behavior Susan Adlai Foster, John A. Endler, 1999 Studies of animal behavior often assume that all members of a species exhibit the same behavior *Geographic Variation in Behavior* shows that on the contrary there is substantial variation within species across a wide range of taxa Including work from pioneers in the field this volume provides a balanced overview of research on behavioral characteristics that vary geographically The authors explore the mechanisms by which behavioral differences evolve and examine related methodological issues Taken together the work collected here demonstrates that genetically based geographic variation may be far more widespread than previously suspected The book also shows how variation in behavior can illuminate both behavioral evolution and general evolutionary patterns Unique among books on behavior in its emphasis on geographic variation this volume is a valuable new resource for students and researchers in animal behavior and evolutionary biology **Animal Behaviour** John Alcock, 1979

TEXTBOOK OF ANIMAL BEHAVIOUR, FOURTH EDITION MANDAL, FATIK BARAN, 2025-02-01 This well accepted book now in its Fourth Edition is a need based extension of the previous book The text is further enriched with more information to understand animal behaviour coherently and scientifically In the new edition the book introduces its readers with the recent topics such as eusociality social learning imitation ritualization mating sexual cannibalism gravireception and magnetoreception The book attempts to provide a reasonably suitable account of animal behaviour for undergraduate and postgraduate students Although the behaviour of animals has fascinated people for a long time behavioural biology has been introduced into syllabi very recently The study of behaviour received its important boost from the work of Charles Darwin who used the term instinct to refer to the natural behaviour of animals In the 1930s a comprehensive theory of animal behaviour emerged through the work of Konrad Lorenz and later by Niko Tinbergen Biological study of behaviour in fact

came of age as a science when Lorenz Tinbergen and Karl von Frisch received the Nobel Prize for their contribution to science. Observing and describing exactly what animals do is fascinating and scientific analysis of their behaviour is significant for several reasons. Each species tends to have an array of stereotyped behaviours, some of which are shared with related species but others are unique. Ecology, natural selection, macroevolution, microevolution and genes constitute the foundation of animal behaviour. Various animal groups exhibit diverse strategies for survival and reproduction which are discussed in this book. KEY FEATURES: Presents a well balanced view of ethology. Discusses current developments, challenges and prospects in the field. Includes a glossary of important terms. Offers chapter end questions to check students' understanding of the concept. TARGET AUDIENCE: B Sc Biology, M Sc Zoology, Life Sciences, Sociology and Anthropology.

Animal Behavior Lee Drickamer, 2001-07. Animal behaviour is a broad discipline with investigators and contributions from diverse perspectives including anthropology, comparative psychology, ecology, physiology and zoology. This book for a one semester introductory course uses evolutionary principles as a unifying theme to expose students to a number of approaches to the field of animal behaviour. The authors also show that the varied perspectives used to study behaviour are complementary and often integrated rather than mutually exclusive. The subtitle *Mechanisms, Ecology and Evolution* reflects the book's theme.

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.

Broom and Fraser's Domestic Animal Behaviour and Welfare 6th Edition Donald M. Broom, 2021-11-17. Completely updated and revised and synthesizing the recent explosion in animal welfare literature, the sixth edition of this best selling textbook continues to provide a thorough overview of behaviour and welfare of companion and farm animals including fish. The introductory section has been completely revised with all following chapters updated, redesigned and improved to reflect our changing understanding. Written by a world leading expert and key opinion leader in animal behaviour and welfare, this text provides a highly accessible guide to the subject. It is an essential foundation for any veterinary, animal science, animal behaviour or welfare focused undergraduate or graduate course.

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