Comparative Psychology of Invertebrates

The Field and Laboratory Study of Insect Behavior

Edited by Gary Greenberg Ethel Tobach

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Comparative Psychology of Invertebrates Gary Greenberg, Ethel Tobach, 2013-09-13 First Published in 1997 The papers in this volume on invertebrate behaviour predominantly ant behaviour are presented as a tribute to T C Schneirla and to his theoretical and experimental contributions to our understanding of the development and evolution of behaviour His emphasis on development also brought to the fore new questions many of which are addressed in this volume Advances in technical instrumentation for research will be useful in reformulating these old questions in new and significantly constructive programs for responsible research The theoretical contributions of Schneirla will continue to prove an important facilitation of those new research techniques Animal-friendly methods for rodent behavioral testing in neuroscience research Raffaele d'Isa, Stefania Fasano, Riccardo Brambilla, 2024-07-03 Rodent behavioral testing has been used to study brain functions since the 1890s and has become a gold standard model in modern neuroscience Up to the 1950s most behavioral tests on laboratory rodent models were based on punishments and rewards Both approaches can lead to a certain degree of animal pain or suffering Punishments involved the employment of painful stimuli typically electric shocks Passive avoidance and fear conditioning tests among the most widely used behavioral paradigms used to evaluate learning and memory in rodents can be performed using only a single brief shock Other tests such as the active avoidance might require up to tens or hundreds of shocks strongly challenging the psychological welfare of the model animals On the other hand tests based on rewards which apparently may seem more ethical actually still induce suffering in the animals as food rewards are almost always associated with a food restriction protocol in order to motivate food seeking behavior Rodents are starved for days before starting the test and kept under food restriction for the whole duration of the test The distress during the testing session is only a minimal part compared to the stress lived outside of the testing session which is prolonged and continuous Analogously liquid rewards commonly rely on a previous water restriction protocol to use thirst as motivation Animal stress is not only an ethical issue per se but also an important factor potentially impacting on the reliability and reproducibility of experimental results The Encyclopedia of Human Ecology Julia R. Miller, Richard M. Lerner, Lawrence B. Schiamberg, Pamela M. Anderson, 2003-08-13 The first and only source to integrate the multiple disciplines and professions exploring the many ways people interact with the natural and designed environments in which we live Comprising more than 250 informative entries The Encyclopedia of Human Ecology examines the interdisciplinary and complex topic of human ecology Knowledge gathered from disciplines that study individuals and groups is blended with information about the environment from the fields of family science geography anthropology urban planning and environmental science At the same time professions intended to enhance individual and family life marriage and family therapy clinical psychology social work dietetic and other health professions are represented alongside those concerned with the preservation conservation and management of the environment and its resources How rampant are eating disorders among our youth Are AIDS educational

programs effective What problems do adolescents transitioning into adulthood encounter Here four leading scholars in the field have assembled a team of top tier psychologists sociologists anthropologists and other experts to explore these and Handbook of Developmental Science, Behavior, and Genetics Kathryn E. hundreds of other timely issues Hood, Carolyn Tucker Halpern, Gary Greenberg, Richard M. Lerner, 2011-06-28 The Handbook of Developmental Science Behavior and Genetics brings together the cutting edge theory research and methodology that contribute to our current scientific understanding of the role of genetics in the developmental system Commemorates the historically important contributions made by Gilbert Gottlieb in comparative psychology and developmental science Includes an international group of contributors who are among the most respected behavioral and biological scientists working today Examines the scientific basis for rejecting the reductionism and counterfactual approach to understanding the links between genes behavior and development Documents the current status of comparative psychology and developmental science and provides the foundation for future scientific progress in the field Information Processing in Social Insects Claire Detrain, Jean L. Deneubourg, Jacques M. Pasteels, 2012-12-06 Claire Detrain Jean Louis Deneubourg and Jacques Pasteels Studies on insects have been pioneering in major fields of modern biology. In the 1970 s research on pheromonal communication in insects gave birth to the dis cipline of chemical ecology and provided a scientific frame to extend this approach to other animal groups In the 1980 s the theory of kin selection which was initially formulated by Hamilton to explain the rise of eusociality in insects exploded into a field of research on its own and found applications in the under standing of community structures including vertebrate ones In the same manner recent studies which decipher the collective behaviour of insect societies might be now setting the stage for the elucidation of information processing in animals Classically problem solving is assumed to rely on the knowledge of a central unit which must take decisions and collect all pertinent information However an alternative method is extensively used in nature problems can be collectively solved through the behaviour of individuals which interact with each other and with the environment The management of information which is a major issue of animal behaviour is interesting to study in a social life context as it raises additional questions about conflict cooperation trade oft's Insect societies have proven particularly open to experimental analysis one can easily assemble or disassemble them and place them in controllable situations in the laboratory *Principles of Comparative Psychology* Gary Greenberg, Maury M. Haraway, 2002 This textbook presents a unified theoretical perspective of comparative psychology presenting the traditional principles of the field combined with the strength of current empirical research Drawing on a rich historical tradition Principles of Comparative Psychology looks to the future of the discipline in the 21st century The authors have conceived this field broadly as the study of origins of all behavior while utilizing a developmental perspective in which behavior is understood to be the result of a fusion of biological and psychosocial factors Particular recognition is given to some of the unique problems of the discipline in carrying out a careful application of the scientific method to its chosen subject matter of

mind and behavior GOOGLE BOOKS Memory and Learning in Plants Frantisek Baluska, Monica Gagliano, Guenther Witzany, 2018-04-23 This book assembles recent research on memory and learning in plants Organisms that share a capability to store information about experiences in the past have an actively generated background resource on which they can compare and evaluate coming experiences in order to react faster or even better This is an essential tool for all adaptation purposes Such memory learning skills can be found from bacteria up to fungi animals and plants although until recently it had been mentioned only as capabilities of higher animals With the rise of epigenetics the context dependent marking of experiences on the genetic level is an essential perspective to understand memory and learning in organisms Plants are highly sensitive organisms that actively compete for environmental resources They assess their surroundings estimate how much energy they need for particular goals and then realize the optimum variant They take measures to control certain environmental resources They perceive themselves and can distinguish between self and non self They process and evaluate information and then modify their behavior accordingly The book will guide scientists in further investigations on these skills of plant behavior and on how plants mediate signaling processes between themselves and the environment in International Journal of Comparative Psychology ,1998 memory and learning processes Primate Perspectives on Behavior and Cognition David A. Washburn, Duane M. Rumbaugh, 2007 Experts with a diverse range of perspectives explore the contributions made to the study of primate cognition and behavior and provide guideposts for new generations of researchers studying behavior as manifested across primate species The contributors first explore commonly used research methodology and then look at the groundbreaking content of recent research Encyclopedia of Human Ecology: I-Z Julia R. Miller, 2003 Examines the way people interact with both natural and man made environments from many aspects of study including biology psychology sociology and environmental science Encyclopedia of Animal Behavior, 2019-01-21 Encyclopedia of Animal Behavior Second Edition Four Volume Set the latest update since the 2010 release builds upon the solid foundation established in the first edition Updated sections include Host parasite interactions Vertebrate social behavior and the introduction of overview essays that boost the book s comprehensive detail The structure for the work is modified to accommodate a better grouping of subjects Some chapters have been reshuffled with section headings combined or modified Represents a one stop resource for scientifically reliable information on animal behavior Provides comparative approaches including the perspective of evolutionary biologists physiologists endocrinologists neuroscientists and psychologists Includes multimedia features in the online version that offer accessible tools to readers looking to deepen their understanding Acta Universitatis Carolinae Univerzita Karlova,2002 Biological Bulletin of Poznań ,1999 Subject Guide to Books in Print ,1996 The Journal of Experimental Biology ,2007 The British National Bibliography Arthur James Wells, 1998 Journal of Experimental Biology, 1999 Biennial Report American Museum of Natural History, 1994 Forthcoming Books Rose Arny, 1997-04 American Book Publishing Record, 1996

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