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NATURAL HISTORY AND EVOLUTION OF PAPER-WASPS

EDITED BY
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Natural History And Evolution Of Paper Wasps

Tiffany K. Wayne



Natural History And Evolution Of Paper Wasps:

Natural History and Evolution of Paper-wasps Stefano Turillazzi, Mary Jane West-Eberhard, 1996 The diversity of social behaviour among birds and primates is surpassed only by members of the Hymenopteran insects bees ants and wasps The paper wasps are a large and varied group and have been studied extensively by a wide range of biologists interested in the evolution of sociality This book is unusual in combining synthetic reviews and new unpublished data with original ideas

Insect Evolutionary Ecology Royal Entomological Society of London. Symposium, 2005 Insects provide excellent model systems for understanding evolutionary ecology They are abundant small and relatively easy to rear and these traits facilitate both field and laboratory experiments This book has been developed from the Royal Entomological Society's 22nd international symposium held in Reading in 2003 Topics include speciation and adaptation life history phenotype plasticity and genetics sexual selection and reproductive biology insect plant interactions insect natural enemy interactions and social insects

The Evolution of Social Wasps James H. Hunt, 2007-03-27 Social behavior occurs in some of the smallest animals as well as some of the largest and the transition from solitary life to sociality is an unsolved evolutionary mystery In *The Evolution of Social Wasps* James H Hunt examines social behavior in a single lineage of insects wasps of the family Vespidae He presents empirical knowledge of social wasps from two approaches one that focuses on phylogeny and life history and one that focuses on individual ontogeny colony development and population dynamics He also provides an extensive summary of the existing literature while demonstrating how it can be clouded by theory Hunt's fresh approach to the conflicting literature on sociality highlights how oft repeated models can become fixed in the thinking of the scientific community Instead Hunt presents a mechanistic scenario for the evolution of sociality in wasps that changes our perspective on kin selection the paradigm that has dominated thinking about social evolution since the 1970s This innovative new model integrates life history nutrition fitness and ecology in which social insect biologists will find a rich storehouse of ideas and information and behavioral ecologists will find a bracing challenge to long accepted models Engagingly written bold and provocative *The Evolution of Social Wasps* marks a milestone in our understanding of one of life's major evolutionary transitions the origin of social behavior

The Biology of Hover Wasps Stefano Turillazzi, 2013-01-29 This book represents the culmination of the author's lifetime work on a single fascinating group of insects the hover wasps Stenogastrinae The author explores the biology of these little known wasps at the threshold of sociality presenting an ambitious survey of ideas about their evolution and an assessment of the current standing of controversial concepts Following taxonomic and morphological descriptions the behaviour colonial dynamics social communication and especially the remarkably diverse nests of wasps are discussed Compared to the better known species of paper wasps hornets and yellow jackets the hover wasps show various peculiarities such as characteristics of immature brood rearing nest defence and mating systems The nest architecture probably presents the most variable solutions in social wasps and is characterized by an astonishing level of

camouflage making these insects an interesting example of special adaptation to forest environments

The SAGE Handbook of Evolutionary Psychology Todd K. Shackelford, 2021-08-04 Evolutionary psychology is an important and rapidly expanding area in the life social and behavioral sciences and this Handbook represents the most comprehensive and up to date reference text in the field today Over three volumes the Handbook provides a rich overview of the most important theoretical and empirical work in the field Chapters cover a broad range of topics including theoretical foundations the integration of evolutionary psychology with other life social and behavioral sciences as well as with the arts and the humanities and the increasing power of evolutionary psychology to inform applied fields including medicine psychiatry law and education Each of the volumes has been carefully curated to have a strong thematic focus covering The foundations of evolutionary psychology The integration of evolutionary psychology with other disciplines and The applications of evolutionary psychology The SAGE Handbook of Evolutionary Psychology is an essential resource for researchers graduate students and advanced undergraduate students in all areas of psychology and in related disciplines across the life social and behavioral sciences

From Genes to Animal Behavior Miho Inoue-Murayama, Shoji Kawamura, Alexander Weiss, 2011-02-03 The biological and genetic bases of behavioral diversity have long been topics of study within many disciplines including evolutionary biology genetics ethology sociobiology and comparative psychology but only relatively recently have attempts been made to bring these different approaches together This volume covers a wide range of interdisciplinary research which uses some of the newest and most promising methods and technologies Presented here is an overview of findings in the ongoing search for the ultimate causes of behavior in several different species including primates dogs rodents birds and fish Divided into five parts the work describes research on sexual and kin selection personality and temperament molecular genetics of personality color vision and body coloration and the neurological underpinnings of complex behaviors Valuable for researchers as well as graduate students in a wide range of fields from neuroscience to ecology the book is also useful to those seeking to move beyond the boundaries of their own discipline and to expand their knowledge

Orientation and Communication in Arthropods Miriam Lehrer, 2013-03-07 The present volume deals with the most fascinating aspects of sensory performance studied in insects crustaceans and spiders Arthropods inhabit practically every conceivable ecological niche and are perfectly adapted to cope with the constraints of their natural habitats They move on the ground in water and in the air They use visual olfactory acoustical vibratory and tactile cues for orientation to recognize and pinpoint their target their home place a feeding site a prey or a potential mate Many arthropods use celestial skylight and terrestrial magnetic compass cues for orientation and some of them were shown to develop through experience oriented behaviours based on a variety of innate hard wired orientation mechanisms In many cases aspects of behaviour that are involved in orientation cannot be separated from inter and intraspecific communication The book brings to the fore the role of communication not only in social and sexual behaviours but also in the context of oriented locomotion Top

internationally renowned scientists have contributed to this volume and have succeeded in presenting a book full of highlights which will be of great interest to workers in this field of research With contributions by F G Barth D von Helverson K E Kaissling W Kirchner M Walker M Weissburg R Campan T Collett J Zeil K Kirschfeld R Wehner M Srinivasan M Lehrer R Gadagkar *TEXTBOOK OF ANIMAL BEHAVIOUR, THIRD EDITION* MANDAL, FATIK BARAN, 2015-09-18 This well accepted book now in its Third Edition is an extension of the previous edition The text has further enriched with more information to understand animal behaviour coherently and scientifically The book attempts to provide a reasonably suitable account of animal behaviour for undergraduate as well as postgraduate students Although behaviour of animals has fascinated people for a long behavioural biology has been incorporated in the 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 of 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 gene constitute the foundation of animal behaviour Various animal groups exhibit diverse strategies for their survival and reproduction which are discussed in this book The book is primarily intended for the students of B Sc M Sc Zoology Life Science for their courses It would be useful for the researchers in the field of animal behaviour and conservation biologists It would also attract students who are pursuing courses in Sociology and Anthropology Key features Presents a well balanced view of ethology Discusses the current development in the field Includes a glossary of important terms Offers chapter end questions to check the students understanding of the concept

American Women of Science since 1900
Tiffany K. Wayne, 2010-10-11 A comprehensive examination of American women scientists across the sciences throughout the 20th century providing a rich historical context for understanding their achievements and the way they changed the practice of science Much more than a Who's Who this exhaustive two volume encyclopedia examines the significant achievements of 20th century American women across the sciences in light of the historical and cultural factors that affected their education employment and research opportunities With coverage that includes a number of scientists working today the encyclopedia shows just how much the sciences have evolved as a professional option for women from the dawn of the 20th century to the present American Women of Science since 1900 focuses on 500 of the 20th century's most notable American women scientists many overlooked undervalued or simply not well known In addition it offers individual features on 50 different scientific disciplines Women in Astronomy etc as well as essays on balancing career and family girls and science education and other sociocultural topics Readers will encounter some extraordinary scientific minds at work getting a sense of the

obstacles they faced as the scientific community faced the questions of feminism and gender confronting the nation as a whole

Host Manipulation by Parasites David P. Hughes, Jacques Brodeur, Frédéric Thomas, 2012-06-07 Parasites that manipulate the behaviour of their hosts represent striking examples of adaptation by natural selection This text provides an authoritative review of host manipulation by parasites that assesses developments in the field and lays out a framework for future research

Whispering the Techniques of Language: An Emotional Quest through **Natural History And Evolution Of Paper Wasps**

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