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David W. Roubik

Ecology and Natural History of Tropical Bees

Ecology And Natural History Of Tropical Bees

Liying Dong



Ecology And Natural History Of Tropical Bees:

Ecology and Natural History of Tropical Bees David W. Roubik, David Ward Roubik, 1992-05-29 Humans have been fascinated by bees for centuries. Bees display a wide spectrum of behaviours and ecological roles that have provided biologists with a vast amount of material for study. Among the types observed are both social and solitary bees: those that either pollinate or destroy flowers and those that display traits allowing them to survive underwater. Others fly mainly at night and some build their nests either in the ground or in the tallest rain forest trees. This highly acclaimed book summarises and interprets research from around the world on tropical bee diversity and draws together major themes in ecology, natural history and evolution. The numerous photographs and line illustrations and the large reference section qualify this book as a field guide and reference for workers in tropical and temperate research. The fascinating ecology and natural history of these bees will also provide absorbing reading for other ecologists and naturalists. This book was first published in 1989. The Bees of the World Charles Duncan Michener, 2000 It is a masterpiece, an instant classic of entomology. Edward O Wilson. This definitive reference by an acclaimed expert accounts for 1200 genera, subgenera and 16 000 species of bees in the world. Useful guide for entomologists, biologists, botanists, ecologists and students. Southeastern Naturalist Plant-Pollinator Interactions Nickolas Merritt Waser, Jeff Ollerton, 2006-01-15 Publisher description *Agrobiodiversity, Community Participation and Landscapes in Agroecology* Tomás Enrique León-Sicard, Diego Griffon, Massimo De Marchi, 2024-08-20 Maintaining and managing agrobiodiversity is a key issue proposed by agroecology not only to maintain high agricultural productivity but also to increase the resilience, stability and sustainability of the agroecosystems, meant as the functional relationship between the natural assets and the human use of them at farm and farm matrix scale. The main hypothesis of this approach is that the greater the interactions between organisms of different trophic levels (edaphic organisms, multiple crops, weed plants, herbivores, carnivores, plants in living fences, corridors or forest patches within agroecosystems), the greater will be the possibilities of obtaining abundant and varied harvests with fewer external inputs (pesticides, fertilizers) and better environmental performance. The agrobiodiversity is meant as the variety and the disposition of the cultivations, pastures, farms that affect the soil properties and create habitat diversity, landscape diversity and connectivity. At the level of landscapes or territories, the set of biodiverse agroecosystems generate natural matrices that have a powerful impact on the recovery and restoration of forest corridors which in turn positively influence many ecosystem services for nature conservation and free movement and recovery of many populations of animal species including those in danger of extinction.

Stingless Bee Nest Cerumen and Propolis, Volume 2 Patricia Vit, Vassya Bankova, Milena Popova, David W Roubik, 2024-10-09 Meliponini (the stingless bees of the tropics) process and store honey, pollen and plant resins to maintain their colonies. The chemical components of their nests are bioactive and believed to be therapeutic for a long list of maladies. However, only recently are tests and analyses being done with molecular and modern laboratory techniques such as high

throughput EDX HPIC HPLC GC NMR PCR and ultrastructural SEM coupled with diverse detectors such as DAD RI MS SCD This two volume book is about the cerumen plant resins mixed with stingless bee wax and propolis which fortify the colony in ways that are beginning to be understood It includes reviews and new research on diverse topics involving the chemistry and bioactivity of plant resins cerumen propolis besides bee and microbe behavior and ecology These analytic studies are presented along with stingless bee biodiversity palynology cultural knowledge bee foraging behavior resin flower evolution ecology and evolution of nest microbe mutualisms social immunity human health the decisive role of microbiology investigation in moving forward natural history of stingless bee colonies and nests marketing and bibliometrics for plant resin use by bees propolis and the Starmerella yeast Evolution of Plant-Pollinator Relationships Sébastien

Patiny,2011-12-08 What are the evolutionary mechanisms and ecological implications behind a pollinator choosing its favourite flower Sixty five million years of evolution has created the complex and integrated system which we see today and understanding the interactions involved is key to environmental sustainability Examining pollination relationships from an evolutionary perspective this book covers both botanical and zoological aspects It addresses the puzzling question of co speciation and co evolution and the complexity of the relationships between plant and pollinator the development of which is examined through the fossil record Additional chapters are dedicated to the evolution of floral displays and signalling as well as their role in pollination syndromes and the building of pollination networks Wide ranging in its coverage it outlines current knowledge and complex emerging topics demonstrating how advances in research methods are applied to pollination biology

Hymenoptera and Conservation T. R. New,2012-07-02 Hymenoptera the bees wasps and ant are one of the largest insect orders and have massive ecological importance as pollinators and as predators or parasitoids of other insects These roles have brought them forcefully to human notice as governors of some key ecological services that strongly influence human food supply Recent declines of pollinators and introductions of alien pests or biological control agents are only part of the current concerns for conservation of Hymenoptera and of the interactions in which they participate in almost all terrestrial ecosystems Both pests and beneficial species abound within the order sometimes closely related within the same families Many taxa are both difficult to identify and very poorly known This global overview the first such account for the whole of the Hymenoptera discusses a broad range of themes to introduce the insects and their conservation roles and needs and how their wellbeing may be approached The book is intended as a source of information for research workers students

conservation managers and naturalists as an introduction to the importance of this dominant insect order **The Wisdom of the Hive** Thomas D Seeley,2009-06-30 This book describes and illustrates the results of more than fifteen years of elegant experimental studies conducted by the author to investigate how a colony of bees is organized to gather its resources The results of his research including studies of the shaking signal tremble dance and waggle dance offer the clearest most detailed picture available of how a highly integrated animal society works **Animal Architecture** Mike

Hansell,2004-12-23 Construction behaviour occurs across the entire spectrum of the animal kingdom and affects the survival of both builders and other organisms associated with them Animal Architecture provides a comprehensive overview of the biology of animal building The book recognizes three broad categories of built structure homes traps and courtship displays Even though some of these structures are complex and very large the behaviour required to build them is generally simple and the anatomy for building unspecialized Standardization of building materials helps to keep building repertoires simple while self organizing effects help create complexity In a case study approach to function insects demonstrate how homes can remain operational while they grow spiderwebs illustrate mechanical design and the displays of bowerbirds raise the possibility of persuasion through design rather than just decoration Studies of the costs to builders provide evidence of optimal designs and of trade offs with other life history traits As ecosystem engineers the influence of builders is extensive and their effect is generally to enhance biodiversity through niche construction Animal builders can therefore represent model species for the study of the emerging subject of environmental inheritance Building and in particular building with silk has been demonstrated to have important evolutionary consequences This book is intended for students and researchers in comparative animal biology but will also be of relevance and use to the increasing numbers of architects and civil engineers interested in developing ideas from the animal kingdom

Animal Architecture Michael Henry Hansell,2005-01-27

Construction behaviour occurs across the entire spectrum of the animal kingdom and affects the survival of both builders and other organisms associated with them Animal Architecture provides a comprehensive overview of the biology of animal building The book recognizes three broad categories of built structure homes traps and courtship displays Even though some of these structures are complex and very large the behaviour required to build them is generally simple and the anatomy for building unspecialized Standardization of building materials helps to keep building repertoires simple while self organizing effects help create complexity In a case study approach to function insects demonstrate how homes can remain operational while they grow spiderwebs illustrate mechanical design and the displays of bowerbirds raise the possibility of persuasion through design rather than just decoration Studies of the costs to builders provide evidence of optimal designs and of trade offs with other life history traits As ecosystem engineers the influence of builders is extensive and their effect is generally to enhance biodiversity through niche construction Animal builders can therefore represent model species for the study of the emerging subject of environmental inheritance Building and in particular building with silk has been demonstrated to have important evolutionary consequences This book is intended for students and researchers in comparative animal biology but will also be of relevance and use to the increasing numbers of architects and civil engineers interested in developing ideas from the animal kingdom

Biodiversity and Conservation of the Yucatán Peninsula Gerald Alexander Islebe, Sophie Calmé, Jorge L. León-Cortés, Birgit Schmook,2015-11-17 This book provides information relevant for the conservation of biodiversity and the sound management of the coastal and forest ecosystems of the Yucatan Peninsula in the face of global

change Various aspects of the biodiversity of the Yucatan Peninsula are analyzed in an integrative manner including phenological ecophysiological ecological and conservation aspects of plants and animals and their relationships with humans in coastal and forest ecosystems

Social Insects and the Environment C.A. Viraktamath,G.K. Veeresh,B. Mallik,2023-10-09 This volume includes 370 papers presented by leading scientists at the 11th International Congress of IUSSI at Bangalore from August 5 11 1990 The papers which have been classified into 30 sections relate to the symposia papers of the Congress These cover various frontiers of research on social insects such as evolution of sociality polygyny social polymorphism kin recognition kin selection foraging strategies reproductive strategies biogeography and phylogenetics of bees and ants pollination ecology and management of pestiferous social insects The most important feature about these papers in this publication is that the results are presented in a crisp brief and precise manner Because of the brevity it has been possible to bring together in one publication almost all aspects of research on social insects from all parts of the world The time between presentation of papers at a Congress and publication has been avoided by publishing this volume on the eve of the Congress and this enables scientists to refer to the results immediately

Food Exploitation By Social Insects Stefan Jarau,Michael Hrncir,2009-05-21 Omnipresent in virtually all terrestrial ecosystems and of undisputed ecological and economical importance the study of social insects is an area that continues to attract a vast number of researchers As a consequence a huge amount of information about their biology and ecology has accumulated Distilling this scattered information into a highly

Stingless Bee Nest Cerumen and Propolis, Volume 1 Patricia Vit,Vassya Bankova,Milena Popova,David W Roubik,2024-10-12 Meliponini the stingless bees of the tropics process and store honey pollen and plant resins to maintain their colonies The chemical components of their nests are bioactive and believed to be therapeutic for a long list of maladies However only recently are tests and analyses being done with molecular and modern laboratory techniques such as high throughput EDX HPIC HPLC GC NMR PCR and ultrastructural SEM coupled with diverse detectors such as DAD RI MS SCD This two volume book is about the cerumen plant resins mixed with stingless bee wax and propolis which fortify the colony in ways that are beginning to be understood It includes reviews and new research on diverse topics involving the chemistry and bioactivity of plant resins cerumen propolis besides bee and microbe behavior and ecology These analytic studies are presented along with stingless bee biodiversity palynology cultural knowledge bee foraging behavior resin flower evolution ecology and evolution of nest microbe mutualisms social immunity human health the decisive role of microbiology investigation in moving forward natural history of stingless bee colonies and nests marketing and bibliometrics for plant resin use by bees propolis and the Starmerella yeast

Pot-Honey Patricia Vit,Silvia R. M. Pedro,David Roubik,2013-01-17 The stingless bees are one of the most diverse attractive fascinating conspicuous and useful of all the insect groups of the tropical world This is a formidable and contentious claim but I believe it can be backed up They are fifty times more species rich than the honey bees the other tribe of highly eusocial bees They are ubiquitous in the tropics

and thrive in tropical cities In rural areas they nest in a diversity of sites and are found on the flowers of a broad diversity of crop plants Their role in natural systems is barely studied but they almost certainly deserve that hallowed title of keystone species They are popular with the general public and are greatly appreciated in zoos and gardens The chapters of this book provide abundant further evidence of the ecological and economic importance of stingless bees *Plant-Animal Interactions* Kleber Del-Claro, Helena Maura Torezan-Silingardi, 2021-05-03 This textbook provides the first overview of plant animal interactions for twenty years focused on the needs of students and professors It discusses a range of topics from the basic structures of plant animal interactions to their evolutionary implications in producing and maintaining biodiversity It also highlights innovative aspects of plant animal interactions that can represent highly productive research avenues making it a valuable resource for anyone interested in a future career in ecology Written by leading experts and employing a variety of didactic tools the book is useful for students and teachers involved in advanced undergraduate and graduate courses addressing areas such as herbivory trophic relationships plant defense pollination and biodiversity **Towards sustainable crop pollination services** Food and Agriculture Organization of the United Nations, 2020-05-01 As the discipline of pollination ecology moves from describing the extent of a pollinator crisis to identifying what can be done about it there is a need to share and highlight very practical measures that will support sustainable crop biotic pollination services Identifying these practices will require a mix of farmer and natural historian knowledge and scientific research In this publication we will outline the practices that have been so far identified and what experiences may contribute to sharing the effectiveness of these measures under different circumstances *Advances in the Study of Behavior* H. Jane Brockmann, Peter J.B. Slater, Charles T. Snowdon, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, 2006-12-14 The aim of *Advances in the Study of Behavior* is to serve scientists engaged in the study of animal behavior including psychologists neuroscientists biologists ethologists pharmacologists endocrinologists ecologists and geneticists Articles in the series present critical reviews of significant research programs with theoretical syntheses reformulation of persistent problems and or highlighting new and exciting research concepts *Advances in the Study of Behavior* is now available online at ScienceDirect full text online of volumes 30 onwards Elsevier book series on ScienceDirect gives multiple users throughout an institution simultaneous online access to an important compliment to primary research Digital delivery ensures users reliable 24 hour access to the latest peer reviewed content The Elsevier book series are compiled and written by the most highly regarded authors in their fields and are selected from across the globe using Elsevier's extensive researcher network For more information about the Elsevier Book Series on ScienceDirect Program please visit <http://www.info.sciencedirect.com/bookseries> Published continuously since 1965 Multidisciplinary across social and life science subject areas Volume 36 addresses current themes in animal behavior *The pollination of cultivated plants: A compendium for practitioners* Food and Agriculture Organization of the United Nations, 2018-10-15 More than twenty years ago the Food and Agriculture

Organization of the United Nations contributed to the growing recognition of the role of pollination in agricultural production with the publication of *The Pollination of Cultivated Plants in the Tropics*. Since that time the appreciation of pollinators has grown alongside the realization that we stand to lose them. But our knowledge and understanding of crop pollination, pollinator biology, and best management practices has also expanded over this time. This volume is the second of two compendiums for practitioners sharing expert knowledge on all dimensions of crop pollination in both temperate and tropical zones. The focus in this second volume is on management, study, and research tools and techniques.

Why Do Bees Buzz?
Elizabeth Capaldi Evans, Carol A. Butler, 2010

Why Do Bees Buzz reports on the mysterious colony collapse disorder that has affected honey bee populations, as well as other captivating topics such as their complex, highly social lives and how other species of bees are unique and different from honey bees. Organized in chapters that cover everything from these provocative pollinators' basic biology to the aggressive nature of killer bees, this insightful question and answer guide provides a honeycomb of compelling facts.

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