

Yutaka Saito

Plant Mites and Sociality

**Diversity and
Evolution**



 Springer

Plant Mites And Sociality Diversity And Evolution

Annelies Wilder-Smith



Plant Mites And Sociality Diversity And Evolution:

Plant Mites and Sociality Yutaka Saito, 2009-11-19 Mites are very small animals characterized by wingless and eyeless bodies in which sociality has been discovered This book offers detailed descriptions of the diverse social systems and the social evolution of mites ranging from genetic to ecological aspects Through a broad spectrum of studies including traditional natural history taxonomy modern evolutionary and behavioral ecology and theoretical models as well the book addresses a number of important findings on plant mite evolution and species radiation with the author succeeding in combining theoretical and practical approaches in behavioral ecology by proposing a new game theory These findings reflect the complex evolutionary history of these taxa and also help to point out clearly what is known and what is not yet known to date Mites have been considered a minor animal group but the author shows that mites actually possess great diversity and therefore make unique materials for evolutionary and behavioral studies Mites: Ecology, Evolution & Behaviour David Evans Walter, Heather C. Proctor, 2013-10-08 More than 40 000 species of mites have been described and up to 1 million may exist on earth These tiny arachnids play many ecological roles including acting as vectors of disease vital players in soil formation and important agents of biological control But despite the grand diversity of mites even trained biologists are often unaware of their significance Mites Ecology Evolution and Behaviour 2nd edition aims to fill the gaps in our understanding of these intriguing creatures It surveys life cycles feeding behaviour reproductive biology and host associations of mites without requiring prior knowledge of their morphology or taxonomy Topics covered include evolution of mites and other arachnids mites in soil and water mites on plants and animals sperm transfer and reproduction mites and human disease and mites as models for ecological and evolutionary theories **Social Invertebrates as Models for Non-Kin Cooperation** Floria M. K. Uy, Leticia Aviles, Miriam H. Richards, 2022-10-25 **Advances in the Study of Behavior** , 2012-12-06 Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior That number is still expanding This volume makes another important contribution to the development of the field by presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onward Advances in the Study of Behavior was initiated over 40 years ago to serve the increasing number of scientists engaged in the study of animal behavior Makes another important contribution to the development of the field Presenting theoretical ideas and research to those studying animal behavior and to their colleagues in neighboring fields **Trends in Acarology** Maurice W. Sabelis, Jan Bruin, 2010-11-16 Mites and ticks are everywhere and acarologists go after them some explore their bewildering diversity others try to understand their how and why For the past 50 years the International Congress of Acarology has been the forum for worldwide communication on the knowledge of Acari helping researchers and students to look beyond their disciplines Many mites and ticks are economic factors as they are pests of agricultural veterinary and

medical importance and several species have become model organisms in modern biology The 96 contributions to Trends in Acarology reflecting fields as molecular biology biochemistry physiology microbiology pathology ecology evolutionary biology systematic biology soil biology plant protection pest control and epidemiology have been reviewed and carefully edited This volume contains a wealth of new information that may stimulate research for many years to come *Coal and Peat Fires: A Global Perspective* Glenn B. Stracher, 2018-11-09 Coal and Peat Fires A Global Perspective Volume Five Case Studies Advances in Field and Laboratory Research the companion to volumes 1 4 includes the latest research findings about coal and peat fires in the United States China India France Spain Poland and Ireland Included are chapters about the discovery of microarthropods at two mine fires the oldest recorded uses of burning coal the effects of combustion and coal waste on a riverine system remote sensing analysis of coal fires gas explosion and spontaneous combustion experiments and phases associated with the by products of combustion This essential reference along with volumes 1 4 includes a companion website with an interactive world map of coal and peat fires a collection of slide presentations research data and videos <https://www.elsevier.com/books-and-journals/book-companion/9780128498859> Authored by world renowned experts in coal and peat fires Global in scope covers case studies about fires around the world Includes beautiful color illustrations valuable research data a companion website with additional resources and a periodically updated world map of coal and peat fires **The Invertebrate World of Australia's Subtropical Rainforests** Geoff Williams, 2020-09-01 The Invertebrate World of Australia's Subtropical Rainforests is a comprehensive review of Australia's Gondwanan rainforest invertebrate fauna covering its taxonomy distribution biogeography fossil history plant community and insect plant relationships This is the first work to document the invertebrate diversity of this biologically important region as well as explain the uniqueness and importance of the organisms This book examines invertebrates within the context of the plant world that they are dependent on and offers an understanding of Australia's outstanding but still largely unknown subtropical rainforests All major and many minor invertebrate taxa are described and the book includes a section of colour photos of distinctive species There is also a strong emphasis on plant and habitat associations and fragmentation impacts as well as a focus on the regionally inclusive Gondwana Rainforests Central Eastern Rainforest Reserves of Australia World Heritage Area The Invertebrate World of Australia's Subtropical Rainforests will be of value to professional biologists and ecologists as well as amateur entomologists and naturalists in Australia and abroad *Phytoseiidae of Taiwan (Acari: Mesostigmata)* Jhih-Rong Liao 廖智榮, Chyi-Chen Ho 何智仁, Hsiao-Chin Lee 李孝珍, Chiun-Cheng Ko 柯俊成, 2020-10-01 The Phytoseiidae are among the best known mite families with more than 2 700 recorded species worldwide Some of those phytoseiids are used as biocontrol agents to fight agricultural pests But in order to study their potential it has become urgent to first establish a reliable taxonomy of Phytoseiidae This book presents a general review of the classification and external morphology of the family Phytoseiidae in Taiwan and neighboring islands Between 2009 and 2019 more than 20 000 specimens were gathered over the course of 2

500 collections This book focuses on 64 species belonging to three subfamilies and fourteen genera among which are five novel species and eight newly recorded species it provides their descriptions and illustrations as well as information on their habitat plants and food habits 2 700 2009 2019 2 500 20 000 3 14 64 5 8

The Handbook of Mites of Economic Plants Vincenzo Vacante, 2015-12-21 Mites pose a serious problem to plants worldwide attacking crops and spreading disease When mites damage crops of economic importance the impacts can be felt globally Mites are among the most diverse and successful of invertebrates with over 45 000 described species with many more thousands to be discovered They are responsible for a significant portion of the losses of crops for food fibre industry and other purposes and require expensive and often controversial pest control measures Understanding these mites is vital for entomologists pest researchers agronomists and food producers Knowledge of mite pests helps to inform control strategies and optimize the production of economic plants and the agrarian economy This encyclopedia provides a thorough coverage of the mites and the problems they cause to crops yet it is easily searchable organised by mite species and subdivided into helpful headings It takes a worldwide view of the issue of mites injurious to economic plants describing mites prevalent in different regions and discussing control methods appropriate in different environments This book provides an encyclopaedic reference to the major mites described by family in terms of their internal and external morphology bio ecology and family systematics Methods of mite collection and laboratory study is described as well as species diagnostic characteristics worldwide distribution host plants identification by the type of damage they cause and control strategies including chemical and biological intervention and integrated pest management measures Mites of the following families are included Eriophyoidea Tarsonemidae Tuckerellidae Tenuipalpidae Tetranychidae Acaridae Penthaleidae Mites of Economic Plants is an important resource for students of entomology and crop production and as a thorough reference guide for researchers and field workers involved with mites crop damage and food production

Advances in Genomics and Epigenomics of Social Insects Greg J. Hunt, Juergen R. Gadau, 2017-01-27 Social insects are among the most successful and ecologically important animals on earth The lifestyle of these insects has fascinated humans since prehistoric times These species evolved a caste of workers that in most cases have no progeny Some social insects have worker sub castes that are morphologically specialized for discrete tasks The organization of the social insect colony has been compared to the metazoan body Males in the order Hymenoptera bees ants and wasps are haploid a situation which results in higher relatedness between female siblings Sociality evolved many times within the Hymenoptera perhaps spurred in part by increased relatedness that increases inclusive fitness benefits to workers cooperating to raise their sisters and brothers rather than reproducing themselves But epigenetic processes may also have contributed to the evolution of sociality The Hymenoptera provide opportunities for comparative study of species ranging from solitary to highly social A more ancient clade of social insects the termites infraorder Isoptera provide an opportunity to study alternative mechanisms of caste determination and lifestyles that are

aided by an array of endosymbionts This research topic explores the use of genome sequence data and genomic techniques to help us explore how sociality evolved in insects how epigenetic processes enable phenotypic plasticity and the mechanisms behind whether a female will become a queen or a worker

EVOLUTION Michael Ruse, Joseph Travis, 2009-01-01 Spanning evolutionary science from its inception to its latest findings from discoveries and data to philosophy and history this book is the most complete authoritative and inviting one volume introduction to evolutionary biology available Clear informative and comprehensive in scope Evolution opens with a series of major essays dealing with the history and philosophy of evolutionary biology with major empirical and theoretical questions in the science from speciation to adaptation from paleontology to evolutionary development evo devo and concluding with essays on the social and political significance of evolutionary biology today A second encyclopedic section travels the spectrum of topics in evolution with concise informative and accessible entries on individuals from Aristotle and Linneaus to Louis Leakey and Jean Lamarck from T H Huxley and E O Wilson to Joseph Felsenstein and Motoo Kimura and on subjects from altruism and amphibians to evolutionary psychology and Piltdown Man to the Scopes trial and social Darwinism Readers will find the latest word on the history and philosophy of evolution the nuances of the science itself and the intricate interplay among evolutionary study religion philosophy and society Appearing at the beginning of the Darwin Year of 2009 the 200th anniversary of the birth of Charles Darwin and the 150th anniversary of the publication of the Origin of Species this volume is a fitting tribute to the science Darwin set in motion

Forest Canopies Margaret D. Lowman, H. Bruce Rinker, 2004-09-28 The treetops of the world s forests are where discovery and opportunity abound however they have been relatively inaccessible until recently This book represents an authoritative synthesis of data anecdotes case studies observations and recommendations from researchers and educators who have risked life and limb in their advocacy of the High Frontier With innovative rope techniques cranes walkways dirigibles and towers they finally gained access to the rich biodiversity that lives far above the forest floor and the emerging science of canopy ecology In this new edition of Forest Canopies nearly 60 scientists and educators from around the world look at the biodiversity ecology evolution and conservation of forest canopy ecosystems Comprehensive literature list State of the art results and data sets from current field work Foremost scientists in the field of canopy ecology Expanded collaboration of researchers and international projects User friendly format with sidebars and case studies Keywords and outlines for each chapter

Soil Ecology and Ecosystem Services Diana H. Wall, Richard D. Bardgett, 2013-07-18 This multi contributor international volume synthesizes contributions from the world s leading soil scientists and ecologists describing cutting edge research that provides a basis for the maintenance of soil health and sustainability The book covers these advances from a unique perspective of examining the ecosystem services produced by soil biota across different scales from biotic interactions at microscale to communities functioning at regional and global scales The book leads the user towards an understanding of how the sustainability of soils biodiversity and ecosystem services can be maintained and how humans other animals and

ecosystems are dependent on living soils and ecosystem services This is a valuable reference book for academic libraries and professional ecologists worldwide as a statement of progress in the broad field of soil ecology It will also be of interest to both upper level undergraduate and graduate students taking courses in soil ecology as well as academic researchers and professionals in the field requiring an authoritative balanced and up to date overview of this fast expanding topic

Developmental Plasticity and Evolution Mary Jane West-Eberhard,2003-04-10 West Eberhard is widely recognized as one of the most incisive thinkers in evolutionary biology This book assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation The process of evolution is systematically reassessed to integrate the insights coming from developmental genetics Every serious student of evolution and a substantial share of developmental biologists and geneticists will need to take note of this contribution The timing is clearly ripe for the synthesis that this work will help bring about

Intestinal Microorganisms of Termites and Other Invertebrates Helmut König,2006 This is the first work to focus on microbes in gut systems of soil animals Beginning with an overview of the biology of soil invertebrates the text turns to the gut microbiota of termites which are important soil processors in tropical and subtropical regions Coverage extends to intestinal microbiota of such other litter decomposers as earthworms springtails millipedes and woodlice Thoroughly illustrated including color photographs Official Program ,2000

Evolution of the Insects David Grimaldi,Michael S. Engel,2005-05-16 Insects are the most diverse group of organisms in the 3 billion year history of life on Earth and the most ecologically dominant animals on land This book chronicles for the first time the complete evolutionary history of insects their living diversity relationships and 400 million years of fossils Whereas other volumes have focused on either living species or fossils this is the first comprehensive synthesis of all aspects of insect evolution The book is illustrated with 955 photo and electronmicrographs drawings diagrams and field photos many in full colour and virtually all of them original The book will appeal to anyone engaged with insect diversity professional entomologists and students insect and fossil collectors and naturalists Eriophyoid Mites: Progress and Prognoses Edward

A. Ueckermann,2010-09-23 Fourteen informative papers dealing with their DNA species interactions adventiveness host specificity potential as bio control agents of weeds chemical control behaviour their role in fungal pathogen epidemiology influence in forests and on ornamentals collecting and mounting techniques and their interaction with crops are presented here This is an extensive and valuable contribution to eriophyoid science and a must for present and future researchers in this field

Army Ants Daniel J. C. Kronauer,2020-10-06 Daniel J C Kronauer brings to life the research surrounding army ants nature s preeminent social hunters Without central coordination army ants march in columns by the thousands and build nests and bridges using their own bodies They also play a crucial role in promoting and sustaining the biodiversity of tropical ecosystems

Biodiversity Edmundas Lekevičius,2022-09-20 Species are not functionally independent From a long term perspective only ecosystem with a fully integrated nutrient cycle is alive The lack of trophic autonomy should be considered

one of the key factors that ensure and maintain biodiversity The variability of abiotic conditions both in space and in time also creates a huge diversity of niches and subniches for genotypes and species In addition life maintains its essential variables biomass and productivity as stable as possible due to the diversity of structures genes macromolecules metabolic pathways genotypes species etc the structures that reach optima are multiplied and thus activated while the functioning of those which lost their optima is suppressed The facts and concepts presented in this monograph thus support the conclusions that a genotype and species diversity is supported by trophic specialisation b biodiversity helps to stabilise the functions essential variables of individuals populations and ecological communities c in evolution the emergence of biodiversity is determined by heritable variation and the advantage of specialised more effective structures over non specialised ones d biodiversity is characterised by its ability to increase itself and to organise itself into relatively consistent structures which we call production pyramids and nutrient cycles This book therefore provides an answer to the question why the diversity of life is of such and such a nature

The Enigmatic Realm of **Plant Mites And Sociality Diversity And Evolution**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Plant Mites And Sociality Diversity And Evolution** a literary masterpiece penned by a renowned author, readers attempt a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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