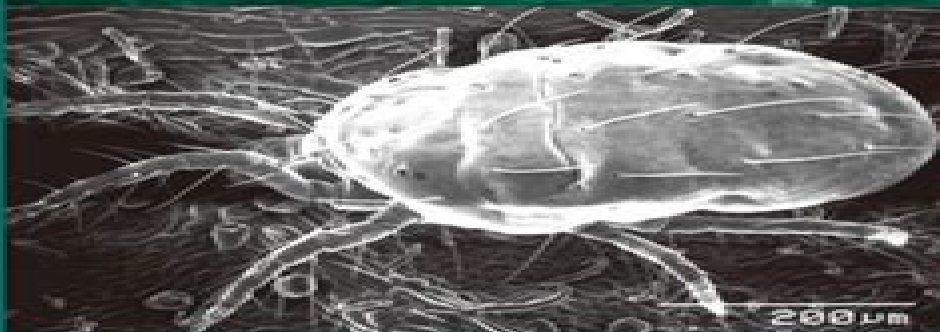


Yutaka Saito

Plant Mites and Sociality

**Diversity and
Evolution**



 Springer

Plant Mites And Sociality Diversity And Evolution

Joacim Rocklöv



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 The Evolution of Social Behavior in Insects and Arachnids Jae C. Choe, Bernard J. Crespi, 1997 Social insects and arachnids exhibit complex forms of behavior that involve cooperation in building a nest defending against attackers or rearing offspring This book is a comprehensive up to date guide to sociality and its evolution in a wide range of taxa *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 廖智容, Chyi-Chen Ho 何智臣, Hsiao-Chin Lee 李孝欽, 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 *Sex Allocation* Stuart West,2009-10-18 Recent decades have witnessed an explosion of theoretical and empirical studies of sex allocation transforming how we understand the allocation of resources to male and female reproduction in vertebrates invertebrates protozoa and plants In this landmark book Stuart West synthesizes the vast literature on sex allocation providing the conceptual framework the field has been lacking and demonstrating how sex allocation studies can shed light on broader questions in evolutionary and behavioral biology West clarifies fundamental misconceptions in the application of theory to empirical data He examines the field s successes and failures and describes the research areas where much important work is yet to be done West reveals how a shared underlying theoretical framework unites findings of sex ratio variation across a huge range of life forms from malarial

parasites and hermaphroditic worms to sex changing fish and mammals He shows how research on sex allocation has been central to many critical questions and controversies in evolutionary and behavioral biology and he argues that sex allocation research serves as a key testing ground for different theoretical approaches and can help resolve debates about social evolution parent offspring conflict genomic conflict and levels of selection Certain to become the defining book on the subject for the next generation of researchers Sex Allocation explains why the study of sex allocation provides an ideal model system for advancing our understanding of the constraints on adaptation among all living things in the natural world **Microbial**

Drivers of Sociality - from Multicellularity to Animal Societies Dino McMahon, Peter H. W. Biedermann, Marko Rohlfs, Joël Meunier, 2021-10-13

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 Bibliography of Agriculture with Subject Index , 1993-05 **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 Comparative Social

Evolution Dustin R. Rubenstein, Patrick Abbot, 2017-04-06 A comparative view of the major features of animal social life and the evolution of cooperative group living

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 Linnaeus 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 Piltown 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

Advances in the Study of Behavior H. Jane Brockmann, Timothy J. Roper, Marc Naguib, Katherine E. Wynne-Edwards, Chris Barnard, John Mitani, 2011-07-29 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 This volume reflects many of the current themes in animal behavior including the evolution of social behavior sexual selection and communication It also reflects controversial topics on which the authors provide interesting new insights Advances in the Study of Behavior is now available online at ScienceDirect full text online from volume 30 onwards

Biodiversity Takuya Abe, Simon A. Levin, Masahiko Higashi, 2012-12-06 Despite acknowledgment that loss of living diversity is an international biological crisis the ecological causes and consequences of extinction have not yet been widely addressed In honor of Edward O Wilson winner of the 1993 International Prize for Biology an international group of distinguished biologists bring ecological evolutionary and management perspectives to the issue of biodiversity The roles of ecosystem processes community structure and population dynamics are considered in this book The goal as Wilson writes in his introduction is to assemble concepts that unite the disciplines of systematics and ecology and in so doing to create a sound scientific basis for the future management of biodiversity

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 biocontrol agents of weeds chemical control behaviour their role in

fungus 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

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