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Spiderwebs and Silk Tracing Evolution from

Molecules to Genes to Phenotypes

Catherine L. Craig

Rainer Foelix

Spiderwebs and Silk Catherine L. Craig, 2003-08-21 Links the molecular evolution of silk proteins to the evolution and behavioral ecology of web spinning spiders and other arthropods This book presents an integrated understanding of an interesting biological system at the molecular and organizational levels Spiderwebs and Silk Catherine Lee Craig, 2023 This work links the molecular evolution of silk proteins to the evolutuion and behavioural ecology of web spinning spiders Spider Evolution Subir Ranjan Kundu, 2021-10-14 Spider Evolution Genetics Behavior and and other arthropods Ecological Influences provides a thorough exploration of the evolutionary trail of arachnids particularly spider species from prehistoric origins to current sustainability issues This book analyzes extinct organisms in the Arachnida class specifically looking at their phylogenomics and molecular footprints to understand evolutionary changes in diversification in today s species Sections cover spider origins and their influences on behavioral traits physiology of sensory organs and biomechanics also touching on spiders as prey and predators and how their roles have changed in the 400 million years of Arachnida existence The book then focuses upon current environmental issues facing spider species and how these have and can affect the evolution of these organisms Topics include biodiversity minimization climate change and natural disasters This book is a much needed resource for entomologists and arachnid or arthropod driven researchers Advanced undergraduate and graduate students will also benefit from the historic review current assessment and future predictions of spider evolution provided in this book Provides a complete view of spider species from their first fossil evidence nearly 400 million years ago Focuses on climate change and biodiversity threats as environmental factors currently affecting these organisms Contains the most up to date knowledge on evolutionary genetics physiology changes and behavioral outcomes Spider Ecophysiology Wolfgang Nentwig, 2013-02-15 With over 43 000 species spiders are the largest predacious arthropod group They have developed key characteristics such as multi purpose silk types venoms consisting of hundreds of components locomotion driven by muscles and hydraulic pressure a highly evolved key lock mechanism between the complex genital structures and many more unique features After 300 million years of evolutionary refinement spiders are present in all land habitats and represent one of the most successful groups of terrestrial organisms Ecophysiology combines functional and evolutionary aspects of morphology physiology biochemistry and molecular biology with ecology Cutting edge science in spiders focuses on the circulatory and respiratory system locomotion and dispersal abilities the immune system endosymbionts and pathogens chemical communication gland secretions venom components silk structure structure and perception of colours as well as nutritional requirements Spiders are valuable indicator species in agroecosystems and for conservation biology Modern transfer and application technologies research spiders and their products with respect to their value for biomimetics material sciences and the agrochemical and pharmaceutical industries Spider Physiology and Behaviour, 2011-10-12 This latest volume in this series contains articles on Arachnid Physiology and Behaviour The papers in this special issue give rise to key themes for the future Contributions from the leading researchers in entomology Discusses arachnid physiology and behavior Includes in depth reviews with valuable information for a variety of entomology disciplines

Behaviour and Ecology of Spiders Carmen Viera, Marcelo O. Gonzaga, 2017-11-02 Within the last few decades arachnology in the Neotropical region has experienced a great development filling the knowledge gap in one of the most diverse regions of the world Nevertheless large geographical areas remain poorly sampled especially within the Amazon and new genera and species have been continuously discovered even in urban areas In congruence with the recent improvements in research several aspects of the ecology behaviour and natural history of spiders such as interactions with other predators and parasitoids social interactions dispersal patterns habitat requirements mating behaviors among others are being carefully investigated These recent contributions incorporate substantial information on the preexisting knowledge on these subjects every year Our main objective with this book is to present a summary on these new researches and on the currently knowledge on the main subjects involved in the general theme emphasizing the contribution of the rich fauna of the Neotropical region to the research of behaviour and ecology of the spiders Handbook of Textile Fibre Structure Stephen Eichhorn, J. W. S. Hearle, M. Jaffe, T. Kikutani, 2009-10-26. Due to their complexity and diversity understanding the structure of textile fibres is of key importance This authoritative two volume collection provides a comprehensive review of the structure of an extensive range of textile fibres Volume 2 begins by reviewing natural fibres such as cellulosic cotton protein wool and silk fibres Part two considers regenerated cellulosic protein alginate chitin and chitosan fibres The final part of the book discusses inorganic fibres such as glass carbon and ceramic fibres as well as specialist fibres such as thermally and chemically resistant fibres optical and hollow fibres Chapters review how fibre structure contributes to key mechanical properties A companion volume reviews the structure of manufactured polymer fibres Edited by leading authorities on the subject and with a team of international authors the two volumes of the Handbook of textile fibre structure is an essential reference for textile technologists fibre scientists textile engineers and those in academia Discusses how fibre structure contributes to key mechanical properties Reviews natural fibres such as cellulosic cotton and silk fibres and considers various regenerated fibres Examines inorganic fibres including glass and carbon as well as specialist fibres such as chemically resistant and optical fibres **The Matter of History** Timothy J. LeCain, 2017-07-31 New insights into the microbiome epigenetics and cognition are radically challenging our very idea of what it means to be human while an explosion of neo materialist thinking in the humanities has fostered a renewed appreciation of the formative powers of a dynamic material environment The Matter of History brings these scientific and humanistic ideas together to develop a bold new post anthropocentric understanding of the past one that reveals how powerful organisms and things help to create humans in all their dimensions biological social and cultural Timothy J LeCain combines cutting edge theory and detailed empirical analysis to explain the extraordinary late nineteenth century convergence between the United States and Japan at

the pivotal moment when both were emerging as global superpowers Illustrating the power of a deeply material social and cultural history The Matter of History argues that three powerful things cattle silkworms and copper helped to drive these previously diverse nations towards a global Great Convergence Endotoxin Detection and Control in Pharma, Limulus, and Mammalian Systems Kevin L. Williams, 2019-07-24 Endotoxin detection and control is a dynamic area of applied science that touches a vast number of complex subjects The intersection of test activities includes the use of an ancient blood system from an odd living fossil Limulus It is used to detect remnants of the most primitive and destructive forms of life prokaryotes as contaminants of complex modern systems mammalian and Pharma Recent challenges in the field include those associated with the application of traditional methods to new types of molecules and manufacturing processes. The advent of at will production of biologics in lieu of harvesting animal proteins has revolutionized the treatment of disease While the fruits of the biotechnology revolution are widely acknowledged the realization of the differences in the means of production and changes in the manner of control of potential impurities and contaminants in regard to the new versus the old are less widely appreciated Endotoxin as an ancient dynamic interface between lifeforms provides a singular perspective from which to view the parallel development of ancient and modern organisms as well as the progress of man in deciphering the complexity of their interactions in his efforts to overcome disease Biotechnology of Silk Tetsuo Asakura, Thomas Miller, 2013-10-21 This book is a snapshot of the current state of the art of research and development on the properties and characteristics of silk and their use in medicine and industry The field encompasses backyard silk production from ancient time to industrial methods in the modern era and includes an example of efforts to maintain silk production on Madagascar Once revered as worth its weight in gold silk has captured the imagination from its mythical origins onwards. The latest methods in molecular biology have opened new descriptions of the underlying properties of silk Advances in technological innovation have created silk production by microbes as the latest breakthrough in the saga of silk research and development The application of silk to biomaterials is now very active on the basis of excellent properties of silks including recombinant silks for biomaterials and the accumulated structural information Fibrous Proteins: Amyloids, Prions and Beta Proteins John M. Squire, David A.D. Parry, Andrey Kajava, 2006-12-12 Amyloids Prions and Beta Proteins is the last volume of the three part thematic series on Fibrous Proteins in the Advances in Protein Chemistry serial Fibrous proteins act as molecular scaffolds in cells providing the supporting structures of our skeletons bones tendons cartilage and skin They define the mechanical properties of our internal hollow organs such as the intestines heart and blood vessels This volume covers such topics as Beta Structures in Fibrous Proteins B Silks Enhancing and Controlling Aggregation Beta Rolls Beta Helices and Other Beta Solenoid Proteins Natural Triple B Stranded Fibrous Folds Structure Function and Amyloidogenesis of Fungal Prions Filament Polymorphism and Prion Variants X Ray Fiber and powder Diffraction of PRP Prion Peptides From the Polymorphism of Amyloid Fibrils to Their Assembly Mechanism and Cytotoxicity Structural Models of Amyloid like Fibrils **Spider Biology** Rainer

Foelix, 2025-09-15 This book is based on the well established book Biology of Spiders but is completely updated It focuses on the biology and natural history of spiders in general it does not deal with the identification of spiders Virtually all aspects of spider biology are covered from anatomy and physiology to neurobiology and behavior or from spider venom to prey capture and from silk production to complex web construction. The book will appeal not only to spider enthusiasts professional arachnologists and zoologists but to anyone with an interest in biology It is written in a clear and straightforward style making it easy to read for the general reader Protein-Based Inheritance Dr. Yury O. Chernoff, 2007-09-04 This book covers a topic that has been neglected for years and has returned to the spotlight only recently Until the genetic role of DNA was firmly established many researchers suspected that proteins rather than nucleic acids could be carriers of heritable information However these models were completely forgotten with the triumphal march of the double helix and the development of a central dogma postulating that information flow occurs strictly from DNA through RNA to protein making it seemingly impossible for the proteins to possess a coding potential Proteins were downgraded to the role of simple perpetuators and executors of DNA orders Taken together data included in this book prove beyond a reasonable doubt that proteins and multiprotein complexes are able to control heritable traits and that at least in some examples this control occurs in a template like fashion so that new structures strictly reproduce patterns of pre existing structures that were not specifically coded in DNA Thus protein based inheritance has left the area of speculation and has emerged as a new topic amenable to high quality experimental analysis **Spiders of the World** Norman I. Platnick, 2020-06-09 A stunningly illustrated natural history of spiders Spiders are among the most versatile creatures on the planet inhabiting six of the seven continents and thriving in environments ranging from deserts and rain forests to Arctic tundra and cities Spiders of the World is a captivating look at these wondrously adaptable and endlessly intriguing arachnids written by six of the world s leading experts on spiders This stunningly illustrated natural history features a wealth of spectacular color photos and covers a breathtaking array of spider species from around the globe describing their behaviors characteristics and remarkable evolutionary adaptations An incisive and engaging introduction provides an invaluable overview of the world's spiders and is followed by in depth profiles spanning more than 100 spider families and presented taxonomically Each profile is organized phylogenetically and includes beautiful photography to illustrate various species within the family There are also distribution maps tables of essential facts and commentaries highlighting diverse aspects of spider biology making Spiders of the World an indispensable volume for anyone who wants to learn more about these marvelous creatures Provides a richly illustrated look at spiders of all shapes and sizes from around the world Features hundreds of color photos and diagrams Spans more than 100 spider families and covers an array of different species Explores spider behavior attributes biology and evolution Includes distribution maps tables of essential facts informative commentaries and more Engages and educates readers about the unique natural history of spiders **Biology of Spiders** Rainer Foelix, 2011-05-05 One of the only books to treat the

whole spider from its behavior and physiology to its neurobiology and reproductive characteristics Biology of Spiders is considered a classic in spider literature First published in German in 1979 the book is now in its third edition and has established itself as the supreme authority on these fascinating creatures Containing five hundred new references this book incorporates the latest research while dispelling many oft heard myths and misconceptions that surround spiders Of special interest are chapters on the structure and function of spider webs and silk as well as those on spider venom A new subchapter on tarantulas will appeal especially to tarantula keepers and breeders The highly accessible text is supplemented by exceptional high quality photographs many of them originals and detailed diagrams It will be of interest to arachnologists entomologists and zoologists as well as to academics students of biology and the general reader curious about spiders Experimental Study on Adhesive or Anti-adhesive, Bio-inspired Experimental Nanomaterials Emiliano Lepore, Nicola Pugno, 2014-09-18 Adhesive abilities of insects spiders and reptiles have inspired researchers for a long time All these organisms show outstanding performance particularly for force adhesion and climbing abilities relative to their size and weight Scientists have focused on the gecko's adhesive paw system and climbing abilities Its adhesion mechanism has been an important topic of research for nearly 150 years However certain phenomena of geckos are still not fully understood and represent today the main challenge in several scientific discussions that aim to better understand their adhesive ability The manuscript deals with the influence of surface roughness on the gecko's adhesion on the inverted surface of Poly methyl meth acrylate PMMA and glass of PMMA with different surface roughness on the gecko's maximum normal adhesive force In general the adhesive structure and mechanism of an animal could be connected to the micro structured roughness of natural substrata e g plant surfaces in the natural environment This manuscript focuses on the nanometer scale which is involved in everything from gecko spatulae to the waxy nanotubules of the lotus leaf to the fibroin protein materials that constitute spider silks In general spider silks display superior mechanical properties but only in the last few decades researchers investigated various types of silks and evaluated their very different mechanical properties. The dragline and the flag silks or radial and circumferential of orb weaving spiders have been characterized in scientific literature while to our knowledge few studies have been conducted on bundles which connect the cocoons of Meta menardi to the ceiling of caves Natural Fibres Ryszard M. Kozlowski, 2012-10-19 Growing awareness of environmental issues has led to increasing demand for goods produced from natural products including natural fibres The two volume Handbook of natural fibres is an indispensible tool in understanding the diverse properties and applications of these important materials Volume 1 Types properties and factors affecting breeding and cultivation is an essential guide to a wide range of natural fibres and highlights key techniques for their improvement Part one reviews key types and fundamental properties of natural textile fibres The production identification and testing of a range of cotton bast silk and wool fibres are discussed alongside bioengineered natural textile fibres Part two goes on to explore the improvement of natural fibre properties and production through

breeding and cultivation beginning with a discussion of fibrous flax and cotton Improved natural fibre production through the prevention of fungal growth is explored along with the use of genetic engineering and biotechnology to enhance desirable characteristics Finally the wider impact of natural textile production is discussed using wild silk enterprise programs as an example With its distinguished editor and international team of expert contributors the two volumes of the Handbook of natural fibres are essential texts for professionals and academics in textile science and technology Provides an essential guide to a wide range of natural fibres and highlights key techniques for their improvement Reviews key types and fundamental properties of natural textile fibres addressing the production identification and testing of a range of cotton bast silk and wool fibres Explores the improvement of natural fibre properties and production through breeding and cultivation beginning with a discussion of fibrous flax and cotton Spiders of India P. A. Sebastian, K. V. Peter, 2009 Webs William Eberhard, 2020-12-22 In this lavishly illustrated first ever book on how spider webs are built function and evolved William Eberhard provides a comprehensive overview of spider functional morphology and behavior related to web building and of the surprising physical agility and mental abilities of orb weavers For instance one spider spins more than three precisely spaced morphologically complex spiral attachments per second for up to fifteen minutes at a time Spiders even adjust the mechanical properties of their famously strong silken lines to different parts of their webs and different environments and make dramatic modifications in orb designs to adapt to available spaces This extensive adaptive flexibility involving decisions influenced by up to sixteen different cues is unexpected in such small supposedly simple animals As Eberhard reveals the extraordinary diversity of webs includes ingenious solutions to gain access to prey in esoteric habitats from blazing hot and shifting sand dunes to capture ants to the surfaces of tropical lakes to capture water striders Some webs are nets that are cast onto prey while others form baskets into which the spider flicks prey Some aerial webs are tramways used by spiders searching for chemical cues from their prey below while others feature landing sites for flying insects and spiders where the spider then stalks its prey In some webs long trip lines are delicately sustained just above the ground by tiny rigid silk poles Stemming from the author's more than five decades observing spider webs this book will be the definitive reference for years to come Journal of Experimental Biology, 2008

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