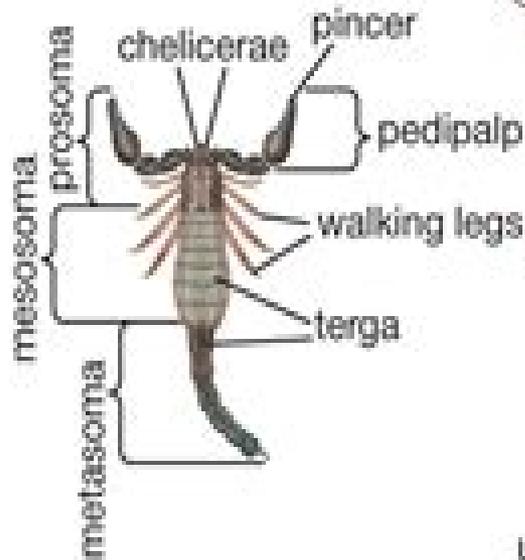


fossil scorpion from the Silurian Period



whip scorpion (Uropygi)



up to 85 mm

palpigrade (Palpigradi)



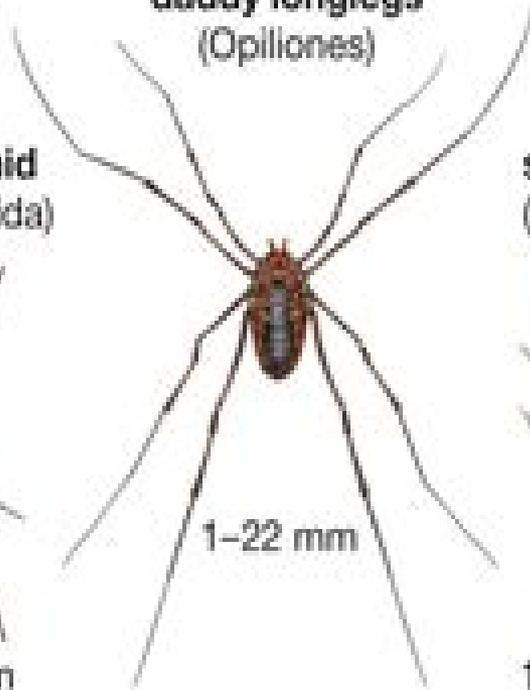
0.8–2.6 mm

schizomid (Schizomida)



5–7 mm

daddy longlegs (Opiliones)



1–22 mm

sunspider (Solifugae)



10–50 mm

scorpion (Scorpiones)



12–210 mm

spider (Araneida)



0.5–90 mm

acarid (Acar)



0.1–30 mm

false scorpion (Pseudoscorpiones)



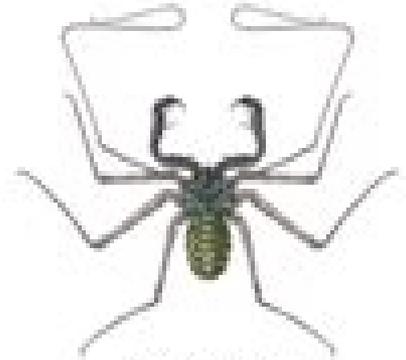
1–7.5 mm

ricinuleid (Ricinulei)



8–10 mm

tailless whip scorpion (Amblypygi)



8–45 mm

Evolution In The Arachnida

**Harvard University. Museum of
Comparative Zoology**



Evolution In The Arachnida:

Evolution in the Arachnida Theodore Horace Savory, 1971
Sciences Connecticut Academy of Arts and Sciences, 1919
Sciences George Francis Eaton, Percy Edward Raymond, Richard Swann Lull, 1916
Cryptic Female Choice in Arthropods Alfredo V. Peretti, Anita Aisenberg, 2015-05-25 This timely book revisits cryptic female choice in arthropods gathering detailed contributions from around the world to address key behavioral ecological and evolutionary questions The reader will find a critical summary of major breakthroughs in taxon oriented chapters that offer many new perspectives and cases to explore and in many cases unpublished data Many groups of arthropods such as spiders harvestmen flies moths crickets earwigs beetles eusocial insects shrimp and crabs are discussed Sexual selection is currently the focus of numerous and controversial theoretical and experimental studies Selection in mating and post mating patterns can be shaped by several different mechanisms including sperm competition extreme sexual conflict and cryptic female choice Discrimination among males during or after copulation is called cryptic female choice because it occurs after intromission the event that was formerly used as the definitive criterion of male reproductive success and is therefore usually difficult to detect and confirm Because it sequentially follows intra and intersexual interactions that occur before copulation cryptic female choice has the power to alter or negate precopulatory sexual selection However though female roles in biasing male paternity after copulation have been proposed for a number of species distributed in many animal groups cryptic female choice continues to be often underestimated Furthermore in recent years the concept of sexual conflict has been frequently misused linking sexual selection by female choice irrevocably and exclusively with sexually antagonistic co evolution without exploring other alternatives The book offers an essential source of information on how two fields selective cooperation and individual sex interests work together in the context of cryptic female choice in nature using arthropods as model organisms It is bound to spark valuable discussions among scientists working in evolutionary biology across the world motivating new generations to unveil the astonishing secrets of sexual biology throughout the animal kingdom
Catalogue of the Smaller Arachnid Orders of the World Mark S. Harvey, 2003 Contains a valuable summary of bibliographic information enabling readers to access the worldwide literature for these smaller orders
Spider Evolution Subir Ranjan Kundu, 2021-10-14 Spider Evolution Genetics Behavior and 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

The Sauropod Dinosaur Barosaurus Marsh George Francis Eaton, Marian Vera Knight, Percy Edward Raymond, Richard Swann Lull, 1915

The Appendages, Anatomy, and Relationships of Trilobites Percy Edward Raymond, 1920

Attachment Structures and Adhesive Secretions in Arachnids Jonas O. Wolff, Stanislav N. Gorb, 2016-12-13 This book surveys attachment structures and adhesive secretions occurring in this class of animals and discusses the relationships between structure properties and function in the context of evolutionary trends and biomimetic potential Topics comprise mechanical attachment devices such as clamps claws hooks spines and wraps as well as hairy and smooth adhesive pads nano fibrils suction cups and viscid and solidifying adhesives Attachment is one of the major types of interactions between an organism and its environment There are numerous studies that deal with this phenomenon in lizards frogs insects barnacles mussels and echinoderms but the second largest class of animals the Arachnida was highly neglected so far The authors demonstrated that most arachnid adhesive structures are highly analogous to those of insects and vertebrates but there are also numerous unique developments with some intriguing working principles Because arachnid attachment organs have a very strong potential of technological ideas for the development of new materials and systems inspirations from biology could also be interesting for a broad range of topics in materials and surface engineering

Evolution, Comparative Morphology, and Identification of the Eumaeine Butterfly Genus Rekoa Kaye (Lycaenidae: Theclinae) Robert K. Robbins, 1991

Proceedings of the American Philosophical Society Held at Philadelphia for Promoting Useful Knowledge American Philosophical Society, 1903

The Shipley Collection of Scientific Papers, 1905

Memoirs of the Entomological Society of Canada, 1979

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

Evolution of Archaeid and Mecysmaucheniid Spiders (Arachnida, Araneae) Hannah Marie Wood, 2011 The limits of the superfamily Palpimanoidea as well as the phylogenetic placement of archaeid and mecysmaucheniid spiders within the Araneomorphae are unresolved Furthermore the relationships between the extant and extinct archaeid taxa is also debated and unresolved This study focuses on these issues by creating a phylogeny from molecular and morphological data and addresses three features of

archaeid and mecysmaucheniid evolution 1 inclusion of several lineages of fossil archaeids clarifies relationships between extant and extinct archaeids and helps explain the disjunct distribution whereby fossils are known only from the northern hemisphere while extant taxa are restricted to the southern hemisphere 2 the placement of archaeids and mecysmaucheniids within the Araneomorphae 3 the limits of the superfamily Palpimanoidea and its placement within the Araneomorphae In addition the timing of deep diversification within the Araneomorphae is estimated by enforcing a molecular clock that includes the archaeid fossil taxa as noncontemporaneous tips These temporal estimations are used to examine biogeographic patterns of congruence with continental break up Total evidence analysis supports the monophyly of a redefined Palpimanoidea which includes the archaeids and mecysmaucheniids This study finds Palpimanoidea to be sister to the Entelegynae and to be an ancient group with diversification occurring in the Permian Furthermore the split between the northern and southern archaeid fauna and the diversification of the southern archaeid clades was likely due to the vicariant events caused by the break up of Pangaea and Gondwana Further study of archaeid spiders offers the possibility to better understand speciation patterns in a group of taxa that have low dispersal abilities and that likely have been on Madagascar since Pangean times To examine speciation patterns in a lineage that likely did not disperse to Madagascar the current study sets out to 1 create a phylogeny of archaeid spiders that thoroughly samples Madagascan lineages 2 calibrate this phylogeny using fossil and geological data and determine the timing of splitting events between the different Gondwana fragments 3 examine lineage through time plots to determine diversification patterns In addition the neck trait is treated as a continuous character and its evolution is examined This study shows that archaeid biogeography patterns are likely explained by vicariance due to Gondwanan break up The lineage through time plots reveal that the Madagascan archaeids have not experienced increases or decreases in the rate of diversification meaning a constant rate of lineage accumulation cannot be rejected Furthermore the evolution of the neck best fits the Brownian motion model implying that evolution of neck length is a product of genetic drift For archaeid lineages that have been on Madagascar since pre isolation times gradual accumulation appears to be the rule Next the current study focuses on the trap jaw in mecysmaucheniid spiders in order to address how it has become modified over the evolutionary history of the lineage Evolution function and morphology of the trap jaw are examined among different lineages of mecysmaucheniids to assess the extent of conservatism versus plasticity in the trait This study involves molecular phylogenetic analyses detailed morphological analysis of jaw structure and high speed video recording to assess the variability and evolution of the trap jaw Results indicate that there is a large degree of variation in jaw function spanning two orders of magnitude Within mecysmaucheniids rapid inertia based mechanisms have evolved in parallel 3 4 times Examination of trap jaw morphology reveals that each rapid inertia based mechanism is unique with different morphologies The trap jaw movements in some mecysmaucheniid lineages may be among the fastest animal movements known with the fastest species attaining jaw closing speeds of greater than 25 meters second in less than one

tenth of a millisecond

Timetrees: Incorporating Fossils and Molecules, 2nd edition Michel Laurin, Gilles Didier, Rachel C. M. Warnock, 2022-09-15 Calibrating phylogenies to time is central to addressing many questions in evolutionary biology and macroevolution. The fossil record once provided our only source for establishing a timeline for evolution. However, the incompleteness of the fossil record and the non-uniformity of fossil recovery rate make it challenging to obtain precise estimates of divergence times from fossil evidence alone. Molecular dating, which combines evidence from the geological and molecular records, enables us to generate a much more complete and precise timeline of events. The molecular clock can be time-calibrated using temporal evidence from fossils and used to estimate divergence times based on the assumption that the rate of sequence evolution will be approximately constant over time and among lineages. Methodological challenges to applying this concept in practice have been to relax the assumption of constant evolutionary rates and to model the uncertainty associated with paleontological and geological calibrations. To this end, available statistical methods have become increasingly complex in order to capture key features of empirical data. These are typically applied using Bayesian inference, which provides a powerful framework for incorporating multiple sources of uncertainty. Although overall more effort has been expended in developing models of molecular sequence evolution, critical advances have also included approaches to modeling taxonomic diversification and fossilization. In particular, recent advances in birth-death process models have allowed for continuous sampling along lineages, enabling more information from the fossil record to be incorporated into dating analyses in a statistically coherent way. In addition, available dating methods can now be applied to scenarios in which no molecular data may be available, allowing for novel insights into the evolution of entirely extinct clades. Other recent innovations enable us to date divergence times among taxa that have no fossil record, including the use of gene duplication events or biogeographic evidence. Furthermore, time-calibrated trees are necessary for obtaining phylogenetic estimates of taxonomic diversification and extinction rates, which can now be jointly inferred along with lineage divergence times. These approaches offer an exciting opportunity to understand the evolution of life in deep time, although key challenges remain, especially with regards to modeling the processes of genome evolution, taxonomic diversification, and fossil recovery. In this Research Topic, we focus on recent advances in methodology, outstanding challenges, and the application of molecular and paleontological dating methods to empirical case studies across the Tree of Life.

Spinning Spiders Raina Mooncrest, AI, 2025-03-05 Spinning Spiders unveils the fascinating world of spiders and their extraordinary silk, examining its science, construction, and diverse applications. Spiders, masters of evolutionary adaptation, use silk not only for webs but also for shelter and even aerial dispersal through ballooning, a method of floating on air currents. This book explores how spiders have mastered silk production, influencing their survival and potentially benefiting human technology. The book progresses from spider biology and silk science to the intricacies of web construction, detailing various web types and their engineering principles. It highlights how silk's strength and elasticity make it valuable for biomimicry with potential uses in materials.

science medicine and engineering Consider that spider silk is stronger than steel and more elastic than nylon making its potential impact groundbreaking Through microscopy studies behavioral experiments and biomechanical analyses Spinning Spiders integrates behavioral ecology with materials science providing a holistic view of spider silk The book emphasizes ecological interactions evolutionary adaptations and the interdisciplinary connections between biology and engineering It highlights the potential for developing novel materials inspired by spider silk and its unique properties

Catalogue of the Library of the Museum of Comparative Zoology, Harvard University Harvard University. Museum of Comparative Zoology, 1976

Encyclopedia of Evolutionary Biology, 2016-04-14 Encyclopedia of Evolutionary Biology Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

A Text-book of Invertebrate Morphology James Playfair McMurrich, 1896

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