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Evolutionary Biology Genome Evolution Speciation

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Evolutionary Biology: Genome Evolution, Speciation ...

This book includes the most essential contributions presented at the 17 th Evolutionary Biology Meeting in Marseille, which took place in September 2013. It consists of 18 chapters organized according to the following categories: · Molecular and Genome Evolution · Phylogeography of Speciation and Coevolution

Evolutionary Biology: Genome Evolution, Speciation ...

Evolutionary biology is the subfield of biology that studies the evolutionary processes (natural selection, common descent, speciation) that produced the diversity of life on Earth.

Evolutionary biology - Wikipedia

Understanding the formation of new species – a process called speciation – is a central challenge in evolutionary biology and genomics, but many questions remain (Arnegard et al., 2014; Riesch et al., 2017). In particular, are there certain patterns of genome evolution that are repeated?

Speciation: How predictable is genome evolution? | eLife

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Evolutionary Biology: Genome Evolution, Speciation ...

and process of evolution in all life forms, from viruses to single-celled organisms to plants to Homo sapiens. Evolutionary genetics will be considered as the foundation underlying all aspects of evolutionary biology, and concepts in speciation, adaptation, classification, population genetics, and macroevolution will be covered in depth.

PCB 4683: EVOLUTIONARY BIOLOGY

Speciation can involve a transition from a few genetic loci that are resistant to gene flow to genome-wide differentiation. However, only limited data exist concerning this transition and the factors promoting it. Here, we study phases of speciation using data from >100 populations of 11 species of *Timema* stick insects.

Transitions between phases of genomic differentiation ...

Plastid genomes have been widely used as models for studying phylogeny, speciation and adaptive evolution. However, most studies focus on comparisons of plastid genome evolution at high taxonomic levels, and comparative studies of the process of plastome evolution at the infrageneric or intraspecific level remain elusive.

Evolution of plastid genomes of *Holcoglossum* (Orchidaceae) ...

Systematic Tree Reconciliation Guides Genome Reconstruction. We obtained a comprehensive and dynamic picture of Stramenopile genome evolution by projecting gene gains, duplications, as well as losses onto the species phylogeny. For each of the 18,459 families, we inferred maximum likelihood trees, reconciled these with the predicted species phylogeny of Stramenopiles, and subsequently formed ...

Reconstruction of Oomycete Genome Evolution Identifies ...

A major question in evolutionary biology that becomes tractable with the advent of modern genomics is the genetic basis for the transitions between broad 'generalist' and narrow 'specialist' ecological niches [1,2,3]. Emerging empirical evidence suggests that the transition to specialism often involves a loss of function due to a loss of genetic material (deletions or pseudogenisation ...

Genomic innovations, transcriptional plasticity and gene ...

The phylogenetic tree of Galliformes (gamebirds, including megapodes, curassows, guinea fowl, New and Old World quails, chicken, pheasants, grouse, and turkeys) has been considerably remodeled over the last decades as new data and analytical methods became available. Analyzing presence/absence patterns of retroposed elements avoids the problems of homoplastic characters inherent in other ...

Waves of genomic hitchhikers shed light on the evolution ...

Biology speciation. STUDY. Flashcards. Learn. Write. Spell. Test. PLAY. Match. Gravity. Created by. Kelsey_Tantrawan. speciation. Key Concepts: Terms in this set (31) Co-evolution. Describes the reciprocal evolutionary effect that two species have on each other when interacting. They have an ecological relationship and exert a mutual self ...

Biology speciation Flashcards | Quizlet

The term "contemporary evolution" is typically used in reference to ongoing or recent genetically based (heritable) phenotypic changes taking place in wild populations. In some cases, the genetic and genomic basis for these phenotypic changes can be identified and documented.

Contemporary Evolution - Evolutionary Biology - Oxford ...

Bessem Chouaia, Stefano Gaiarsa, Elena Crotti, Francesco Comandatore, Mauro Degli Esposti, Irene Ricci, Alberto Alma, Guido Favia, Claudio Bandi, Daniele Daffonchio, Acetic Acid Bacteria Genomes Reveal Functional Traits for Adaptation to Life in Insect Guts, *Genome Biology and Evolution*, Volume 6, Issue 4, April 2014, Pages 912-920, <https://doi.org/10.1093/gbe/abw001> ...

Acetic Acid Bacteria Genomes Reveal Functional Traits for ...

Whenever two species have become separated in their evolutionary trajectories, their genome sizes might diverge neutrally, due to independently occurring processes of genome expansion and genomic deletion, unless there are factors constraining the evolution of genome size.

Genome size evolution at the speciation level: The cryptic ...

Polyploidy is a prominent process in plant evolution, where 50% or more of flowering plants and 95% of ferns and fern allies are polyploids (Goldblatt 1980; Grant 1981; Masterson 1994), including many crop plants of worldwide importance (e.g., rice, wheat, cotton, and soybean). More recent genomic studies even suggest that probably all angiosperms have had at least one polyploidization event ...

Tracking Ancient Polyploids: A Retroposon Insertion ...

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Evolutionary Biology: Genome Evolution, Speciation ...

This course introduces basic concepts in evolutionary biology, from speciation to natural selection. While the lectures incorporate a historical perspective, the main goal of the class is to familiarize students with topics and tools of evolutionary genetics as practiced today, in the era of genomics.

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