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Formation of New Species by Speciation |
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Evolutionary Biology: Genome Evolution, Speciation ...

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Evolutionary Biology: Genome Evolution, Speciation ...

Offering an overview of the latest findings in the field of evolutionary biology, this book represents an invaluable source of information for scientists, teachers and advanced students. Keywords Biodiversity Coevolution Comparative genomics Evolution Evolutionary Biology Meeting Marseille Exobiology Functional phylogeny Genome evolution Origin of Life Phylogeography Speciation

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Evolutionary Biology: Genome Evolution, Speciation ...

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

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

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Evolutionary Biology: Genome Evolution, Speciation ...

Speciation is the evolutionary process that generates biodiversity and has been a central focus for evolutionary biologists since Darwin. Studies of the genetic basis of speciation date back to the early days of the modern synthesis, when Mendelian Genetics was first integrated into Darwinian evolution. An early area of interest was the role of chromosomal rearrangements in generating reproductive isolation, known as Chromosomal Speciation.

Speciation Genetics and Genomics - Evolutionary Biology ...

Genome size evolution at the speciation level: The cryptic species complex *Brachionus plicatilis* (Rotifera) Abstract. Studies on genome size variation in animals are rarely done at lower taxonomic levels, e.g., slightly... Background. Genome size, measured as the haploid nuclear DNA content ...

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Mar. 1, 2017 – An evolutionary biologist suggests that hormones, such as testosterone, play a key role in shaping gene expression in ways that are unique to each sex as an organism develops to.....

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Evolutionary Biology: Genome Evolution, Speciation ...

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.

Encyclopedia of Evolutionary Biology | ScienceDirect

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Evolutionary Biology: Genome Evolution, Speciation ...

This section considers studies into speciation and the role of inheritance and variation in individuals and among populations in evolution. Page 3 of 6 Dated tribe-wide whole chloroplast genome phylogeny indicates recurrent hybridizations within Triticeae

BMC Evolutionary Biology | Speciation and evolutionary ...

1) Speciation Research on this topic focuses on the processes both driving and constraining the formation of new species. 2) Genome Evolution Research into the causes of genome evolution has been re-vitalized by the advent of next-generation... 3) Eco-evolutionary Dynamics Evolutionary change in ...

Research | Nosil Lab of Evolutionary Biology Evolutionary biology is the subfield of biology that studies the evolutionary

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Origins Of Life processes that produced the diversity of life on Earth. In the 1930s, the discipline of evolutionary biology emerged through what Julian Huxley called the modern synthesis of understanding, from previously unrelated fields of biological research, such as genetics and ecology, systematics and paleontology. The investigational range of current research widened to encompass the genetic architecture of adaptation, molecula

Evolutionary biology - Wikipedia

Hybridization and the build up of genomic divergence during speciation. *Journal of Evolutionary Biology* 26: 261-266. PDF. 66) Reimchen, T.E., C. Bergstrom, and P. Nosil. 2013. Natural selection and the adaptive radiation of *Haida Gwaii* stickleback. ... Speciation and genome evolution. pp. 549-558. In ...

Publications | Nosil Lab of Evolutionary Biology

Speciation initiated by polyploidy, that is, whole-genome duplication, is observed in a wide variety of organisms, including fish, amphibians, yeast, and plants.

THE BIOLOGY OF SPECIATION - Sobel - 2010 - Evolution ...

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The emergent theory on speciation suggests that speciation can occur through divergent selective forces in the presence of gene flow, a process known as ecological speciation (Schluter, 2009). Vicariance may also drive diversification in nonadaptive contexts by imposing reproductive barriers (Gittenberger, 1991).

Falcon genomics in the context of conservation, speciation ...

Evolutionary biologist Professor Axel Meyer from the University of Konstanz and his team have come one decisive step closer to answering fundamental questions in biology. Upon evaluation of an ...

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