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Parasitic

Rayner and Keeling review recent insights into the origins of Apicomplexan parasites at two scales: the evolution of the human malarial parasite *Plasmodium falciparum* from among *Laverania* parasites of apes, and the origin of all Apicomplexan parasites from marine photosynthetic ancestors. They

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demonstrate how better sampling of the biodiversity of these organisms with molecular methods has produced precise hypotheses for the origin of these enigmatic parasites.

The evolution of parasite genomes and the origins of ...

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The Southern Ocean. Especially the influence of parasites on their host species needs intensive consideration in times of global warming and worldwide pollution. Both factors may influence the finely balanced interrelationships between parasites and endangered hosts especially in specialized regions...

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Biodiversity and Evolution of Parasitic
Life in the Southern Ocean. Editors:
Klimpel, Sven, Kuhn, Thomas, Mehlhorn,
Heinz (Eds.) Free Preview. Offers a broad
spectrum of important parasite-host
interrelations in times of ecosystem
changes Provides an overview about the

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parasites biodiversity of the Southern Oceans
Written by experienced and ...

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Biodiversity and Evolution of Parasitic Life in the Southern Ocean
Kenneth Mackenzie
To begin with, it is necessary to define the northern limit of the

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Antarctic.

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Biodiversity and Evolution of Parasitic Life in the ...

Reflecting the enormous advances made in the field over the past ten years, this text synthesizes the latest developments

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in the ecology and evolution of animal parasites against a backdrop of parallel advances in parasite systematics, biodiversity and life cycles.

Parasitism: The Diversity and Ecology of Animal Parasites ...

Increasing parasite diversity accelerated the rate of host evolution, driving both

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faster genomic evolution within populations and greater divergence between populations. Thus, different parasite...

High parasite diversity accelerates host adaptation and ...

Parasites, biodiversity and ecosystem stability. Parasites can be stabilizers or

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destabilizers, depending on factors such as susceptibility of hosts and size of the ecosystem. Parasites play a major role each time 'something' disturbs living beings at the populational and/or specific level, as they do at the individual level.

Parasites, biodiversity and

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ecosystem stability | SpringerLink

Most of the parasitic species belonged to root hemiparasites ($n = 516$, 76.11% of the total), followed by stem parasites ($n = 100$, 14.75%), root holoparasites ($n = 61$, 9.00%), and endophytic parasites ($n = 1$, 0.15%).

Diversity and distribution of

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These areas are of particular importance

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because the evolution of these wasps will provide vital data for the resolution of the biogeography and evolution of islands in both regions. Finally, I have begun studying the biodiversity and biogeography of Hymenoptera in the state of California, resulting in the publication Kimsey (1996b).

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SYSTEMATICS, EVOLUTION AND BIODIVERSITY OF PARASITIC ...

study of parasite evolution. They have provided an exhaustivesampleofmolecularcharacterstoimprove parasite phylogenies that previously might have been based on single genes, and been poorly resolved as a consequence. The same sampling allows deep phylo-geneti

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comparisons between taxa that are not related well on morphology or ultrastructure. For example,

SPECIAL ISSUE ARTICLE S1 Preface: the evolution of ...

Today, we appreciate the great importance parasites have for the ecology, behaviour and evolution of free-

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living organisms, but also for biodiversity and ecosystem function (Lafferty et al. 2006 ...

(PDF) Preface: The evolution of parasite genomes and the ...

Conservation as a byproduct of this type of intervention is the predominant de facto strategy for parasitic biodiversity,

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regardless of the fact that the alignment of conservation goals for free-living biodiversity with the conservation of parasites has received scant attention. However, recent studies suggest that systems-level conservation strategies do affect parasite diversity and infection patterns.

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Neglected wild life: Parasitic biodiversity as a ...

Theories of host-parasite coevolution include the geographic mosaic theory, which assumes a selection mosaic, coevolutionary hotspots, and geographic mixing; the Red Queen hypothesis, which proposes that parasitism favours sexual reproduction in the host; and an

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evolutionary trade-off between transmission and virulence, since if the parasite kills its host too quickly, the parasite will not be able to reproduce.

Host-parasite coevolution - Wikipedia

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Southern Ocean (pp.1-5) Biodiversity and Evolution of Parasitic Life in the Southern Ocean (pp.1-5) DESCRIPTION The Southern Oceans including Antarctic regions are peculiar and very sensitive water biotopes, where animal life and species interrelations are only poorly ...

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evolution of CRISPR ...

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Timothy M. Goater, Cameron P. Goater,
Gerald W. Esch December 2013

Reflecting the enormous advances made
in the field over the past ten years, this
text synthesizes the latest developments
in the ecology and evolution of animal

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