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Morphometrics in Evolutionary Biology: The Geometry of Size

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With Examples From Fishes The Academy Of Natural Sciences of Philadelphia, Special Publication No. 15) 1st Edition. by Fred L. Bookstein (Author), Barry Chernoff (Author), Ruth L. Elder (Author), Jr. Julian M. Humphries (Author), Gerald R. Smith (Author), Richard F. Strauss (Author) & 3 more

Morphometrics in Evolutionary Biology: The Geometry of

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Geometric morphometrics is the study of shape variation and its covariation with other variables (Bookstein, 1991; Dryden & Mardia, 1998), where "shape" describes the geometric properties of an...

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Morphometrics, the measurement and statistical analysis of organismal form, has always been a core tool in evolutionary biology. With the advancement of 3D imaging technology and geometric...

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Morphometrics in evolutionary biology : the geometry of

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Morphometrics can be used to quantify a trait of evolutionary significance, and by detecting changes in the shape, deduce something of their ontogeny, function or evolutionary relationships. A major objective of morphometrics is to statistically test hypotheses about the factors that affect shape.

Morphometrics - Wikipedia

Morphometrics is one of the most dynamic and popular fields on

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the contemporary biological scene. Focusing, as it does, on the quantitative characterization and analysis of morphological data, student

Morphometrics | SpringerLink

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Whereas in microbiology bacteria are often treated as pure cultures or something to be detected from a sample, with specific and constant traits used to identify them, the ecological viewpoint connects them to larger networks of organisms that change based on ecological and evolutionary interactions.

Ecological perturbations in the life of a microbiologist ...

Evolutionary Biology is dedicated to the view that evolutionary theory is a unifying framework for the biosciences. The journal is a forum in which critical reviews, original research, commentaries, and controversial views are brought together to contribute to greater understanding of the origins and diversity of life.

Evolutionary Biology | Home

Morphological evolution of head shape (above) and body shape (below). The trees on the left represent the phenotypic evolutionary shifts detected by I1ou which are colored (ochre colored regimes in head shape for Simalia and Morelia are convergent). Branch lengths on these trees are proportional to the relative number of times that a shift was recovered in the random posterior sample.

Phylogenomics, Biogeography, and Morphometrics Reveal ...

Traditionally, morphometric data have consisted of distances, angles, or ratios, and have been considered inappropriate for cladistic analyses. Recently, geometric morphometrics, based on homologous landmark point-coordinates, has provided a number of advantages over traditional morphometric data and methods,

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including the possibility that phylogenetically informative characters and character...

Geometric morphometrics and cladistics: testing ...

PD Dr. Ottmar Kullmer, Christine Hemm. Zurück. Science. Research; Biodiversity, Systematics and Evolution

Team: Tertiary Mammals and Morphometrics | Senckenberg ...

Morphometrics in Evolutionary Biology One of the first collection of papers introducing the importance of morphometrics-The Blue Book: Rohlf, F. J. and F. L. Bookstein (eds.). 1990. Proceedings of the Michigan Morphometrics Workshop

Geometric morphometrics in anthropology - Wikipedia

I am an evolutionary biologist, and I have recently started my lab at the University of Portsmouth.. Over the years, I have worked on multiple groups of organisms, but particularly fish. I have methodological expertise in the analysis of biological form (morphometrics), as well as in using phenotypic data in combination with genomics and transcriptomics.

Carmelo Fruciano - Research - Evolutionary biology

Researchers using geometric morphometric methods can be confronted with a need to combine separate landmark configurations from the same research subjects as a more holistic description of organismal morphology.

Making Heads or Tails of Combined Landmark Configurations ...

Ecology, Evolution and Organismal Biology Publications Ecology, Evolution and Organismal Biology 2013 A Field Comes of Age: Geometric Morphometrics in the 21st Century Dean C. Adams Iowa State University, dcadams@iastate.edu F. James Rohlf Stony Brook University Dennis E. Slice Florida State University

A Field Comes of Age: Geometric Morphometrics in the 21st ...

Many ecological and evolutionary studies seek to explain patterns of shape variation and its covariation with other

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variables. Geometric morphometrics is often used for this purpose, where a set of shape variables are obtained from landmark coordinates following a Procrustes superimposition.

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