

Constructional Morphology And Evolution

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Constructional Morphology And Evolution

Constructional Morphology and Evolution. Usually dispatched within 3 to 5 business days. Constructional morphology explains features of organisms from a constructional and functional point of view. By means of physical analysis it explains the operational aspects of organic structures - how they can perform the activities organisms are expected to fulfil in order to survive in their environment.

Constructional Morphology and Evolution | Norbert Schmidt ...

Constructional Morphology and Evolution Softcover reprint of the original 1st ed. 1991 Edition by Norbert Schmidt-Kittler (Editor), Klaus Vogel (Editor), H. Schäfer (Illustrator) & 0 more

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By means of physical analysis it explains the operational aspects of organic structures - how they can perform the activities organisms are expected to fulfil in order to survive in their environment. Constructional morphology also explains options and constraints during the evolution determined by internal constructional needs, ontogenetic demands, inherited organizational preconditions and environmental clues.

Constructional Morphology and Evolution | SpringerLink

Constructional Morphology and Evolution. Constructional morphology explains features of organisms from a constructional and functional point of view. By means of physical analysis it explains the operational aspects of organic structures - how they can perform the activities organisms are expected to fulfil in order to survive in their environment. Constructional morphology also explains options and constraints during the evolution determined by internal constructional needs, ontogenetic ...

Constructional Morphology and Evolution | N. Schmidt ...

Constructional morphology and evolution applies the biomechanical approach to major issues in metazoan evolution, with particular reference to the constraints governing evolutionary pathways. OSCHMANN et al. set the scene with a consideration of the early evolution of the Earth and the origin of life.

Constructional Morphology And Evolution

Constructional Morphology and Evolution. [Norbert Schmidt-Kittler; Klaus Vogel] -- Constructional morphology explains features of organisms from a constructional and functional point of view. By means of physical analysis it explains the operational aspects of organic structures - ...

Constructional Morphology and Evolution (eBook, 1991 ...

Introduction : A new look at morphology / N. Schmidt-Kittler and K. Vogel --Explanations in Konstruktionsmorphologie and evolutionary morphology / W.J. Bock --Functional aspects of morphology / W. Nachtigall --An outline of morpho-constructional analysis / N. Schmidt-Kittler --Concepts of constructional morphology / K. Vogel --Dynamic ...

Constructional morphology and evolution (Book, 1991 ...

Constructional morphology, origin, and evolution of the gastropod operculum - Volume 24 Issue 1 - Antonio G. Checa, Antonio P. Jiménez-Jiménez

Constructional morphology, origin, and evolution of the ...

Constructional morphology, origin, and evolution of the. gastropod operculum. Antonio G. Checa and Antonio P. Jimenez-jimenez. Abstract.--Gastropod opercula are classified here on a new morphogenetic basis, which distin-. guishes three main types: (1) flexiclaudent spiral (mostly multispiral) operculum, the shape of.

Constructional Morphology, Origin, and Evolution of the ...

A definition of constructional morphology is offered and its relations to functional morphology and biomechanics are described. Starting from the introduction of this term and kind of morphological analysis by Weber, it is described as a compromise between a morphogenetic and a phylogenetic factor and the biological role (Seilacher).

Concepts of Constructional Morphology | SpringerLink

The constructional morphology framework presents three factors that interact to determine the biological form. ... The evolution of the arcoid bivalves is a consequence of the interaction of three ...

(PDF) Morphology, ConstructionalMorphology, constructional

Constructional morphology: the analysis of constraints in evolution dedicated to A. Seilacher in honour of his 60. birthday. Reif WE, Thomas RD, Fischer MS. Evolutionary change is opportunistic, but its course is strongly constrained in several fundamental ways.

Constructional morphology: the analysis of constraints in ...

Adolf "Dolf" Seilacher (February 24, 1925 - April 26, 2014) was a German palaeontologist who worked in evolutionary and ecological palaeobiology for over 60 years. He is best known for his contributions to the study of trace fossils; constructional morphology and structuralism; biostratinomy, Lagerstätten and the Ediacaran biota.

Adolf Seilacher - Wikipedia

Constructional morphology of sand dollars - Volume 5 Issue 3. This paper analyzes an aberrant group of echinoids in terms of constructional morphology, i.e., as modification of an established "Bauplan" by a set of new functional and morphogenetic constraints and possibilities.

Constructional morphology of sand dollars | Paleobiology ...

Constructional morphology studies have focused primarily on the function of oblique ribs, which are apparently quite well suited for burrowing (Stanley, 1969, 1970, 1975, 1988; Seilacher, 1972 ...

(PDF) Constructional morphology of cardiid bivalves: an ...

Alternatives to evolution by natural selection, also described as non-Darwinian mechanisms of evolution, have been proposed by scholars investigating biology since classical times to explain signs of evolution and the relatedness of different groups of living things. ... Constructional Morphology and Evolution. Springer. pp. 251–271.

Alternatives to evolution by natural selection - Wikipedia

Describes an assignment in a paleontology course built around constructional morphology and the role of adaptation and exaptation in evolution. Students investigate the constructional morphology of a group of fossils that interests them. Findings are presented in an oral presentation and in a term paper. (27 references) (PR)

ERIC - EJ452084 - Constructional Morphology and Exaptation ...

Karel F. Liem, A Functional Approach to the Development of the Head of Teleosts: Implications on Constructional Morphology and Constraints. Constructional Morphology and Evolution, 10.1007/978-3-642-76156-0, (231-249), (1991).

The functions and mechanisms of the protrusible upper jaws ...

From the viewpoint of constructional morphology the only known placozoan speciesTrichoplax adhaerens represents a member of a basal metazoan stem line which evolved distinctly from other phyla and earlier than sponges and coelenterates. Since theTrichoplax bauplan is still similar to the hypothetical placuloid and gallertoid stages, the given ...