Journal of Biomimetics, Biomaterials, and Tissue Engineering

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Journal of Biomimetics, Biomaterials, and Tissue Engineering

Call for Papers

Introduction
Journal of Biomimetics, Biomaterials, and Tissue Engineering (JBBTE) is an international journal published by TransTech Publications Ltd – one of the leading scientific publishers in the world. JBBTE is the official journal of the Australian and New Zealand Orthopaedic Research Society (ANZORS). JBBTE reports the current achievements and forecast research trends in biomaterials and tissue engineering, which forfeit the glamour of mother nature – biomimetics.

Scope and Background
JBBTE is dedicated to publishing original research and expert review papers in the general areas of biomimetics, biomaterials, and tissue engineering. JBBTE is thus a multidisciplinary journal intersecting the areas of biology, biochemistry, materials science and engineering, etc. While the editors will consider all manuscript submissions in these general areas, the intention of this journal is to explore the field of biomimetics and how it can be the key to scientific progress in the related areas of biomaterials and tissue engineering.

Biomimetics involves taking inspiration from nature in the development of technology. While the term "biomimetics" was coined some time ago, as a research field it is very new. Biomimetics involves the study and mimicking of natural processes, which may be useful in drug research, biomedical engineering, and unravelling the nanomachinery of life in general. Applied biochemistry and also mathematical and computational biochemistry are key tools in this regard. Biomimetics involves not only the design of new materials, but is also concerned with understanding the mechanisms by which natural materials achieve their material properties. Biomimetics is a broad area, therefore the scope of this Journal will be principally confined to biomimetics as it relates to the fields of biomaterials and tissue engineering. However, broader research in the biomimetics field is also welcome.

Biomaterials relates to the study of biocompatible materials used for biomedical applications. It involves not only synthetic materials (e.g., biometals, biopolymers, bioceramics, and biocomposites), but also biological materials (e.g., proteins, cells, natural tissues, etc.). Biomaterials research encompasses various topics including: materials synthesis and characterisation, surface modification, biostability and biodegradation, and cell-material and/ or tissue-implant interactions. Typical biomaterials out of biomimetics include but not limited to nano-biomaterials, smart biomaterials, hybrid biomaterials, nano-biocomposites, and hierarchically porous biomaterials.

Tissue Engineering is a newly emerging field that offers hope to people with compromised tissue function. Tissue engineering focuses on the construction of biological substitutes containing viable and functioning cells for the restoration, maintenance or improvement of tissue function. Tissue engineering embraces many research areas including: biomaterial scaffolds, stem cells, bioreactors, and cell biology. Tissue engineering is biomimetic in the sense that autografts are still the gold standard and the human body is a complex and sophisticated bioreactor.

Manuscript Submission
JBBTE is a periodical published quarterly. The process of manuscript review is fair, fast, and through. Interested authors are requested to comply with the attached instructions for authors. Duplicate hard copies should be sent to the Chief Editor or the relevant Section Editors and a separate email containing soft copy sent to the Chief Editor or the relevant Section Editor.
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Instructions to Authors

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Introduction
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\[ c^2 = a^2 + b^2. \]  
(1)

**Literature References**

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