PROCESS BIOCHEMISTRY

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DESCRIPTION

Process Biochemistry is an application-orientated research journal devoted to reporting advances with originality and novelty, in the science and technology of the processes involving bioactive molecules and living organisms. These processes concern the production of useful metabolites or materials, or the removal of toxic compounds using tools and methods of current biology and engineering. Its main areas of interest include novel bioprocesses and enabling technologies (such as nanobiotechnology, tissue engineering, directed evolution, metabolic engineering, systems biology, and synthetic biology) applicable in food (nutraceutical), healthcare (medical, pharmaceutical, cosmetic), energy (biofuels), environmental, and biorefinery industries and their underlying biological and engineering principles.

Main topics covered include, with most of possible aspects and domains of application:
- Fermentation, biochemical and bioreactor engineering
- Biotechnology processes and their life science aspects
- Biocatalysis, enzyme engineering and biotransformation
- Downstream processing
- Modeling, optimization and control techniques.

Particular aspects related to the processes, raw materials and products, also include:
- Quantitative microbial physiology, stress response, signal transduction
- Genetic engineering and metabolic engineering
- Proteomics, functional genomics, metabolomics, and bioinformatics
- Chiral compounds production, cell free protein system, high-throughput screening, in-vivo/in-vitro evolution, enzyme immobilization, enzyme reaction in non-aqueous media
- Mass transfer, mixing, scale-up and scale-down, bioprocess monitoring, bio-manufacturing
- Cell, tissue and antibody engineering: animal and plant cells/tissues, algae, micro-algae, extremophile, antibody screening and production
- Environmental biotechnology: biodegradation, bioremediation, wastewater treatment, biosorption and bioaccumulation
- Bio-commodity engineering: biomass, bio-refinery, bio-energy
- Bioseparation, purification, protein refolding.
- Other new bioprocess and bioreactor related topics especially on application to healthcare sectors
IMPACT FACTOR

2018: 2.883 © Clarivate Analytics Journal Citation Reports 2019

ABSTRACTING AND INDEXING

Aqualine Abstracts
CAB International
EMBiology
BIOSIS Citation Index
Current Biotechnology Abstracts
Current Technology Index
Current Contents
FSTA (Food Science and Technology Abstracts)
Chemical Abstracts
Elsevier BIOBASE
Agricultural and Environmental Biotechnology Abstracts
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**Main points of the Guide for Authors**

The text must be double spaced. The lines and pages must be numbered. Highlights: Use short and very concise sentences. Not more than one line per item of highlight is recommended. Generally 3-5 items of highlight are acceptable. Two parts "Results" and "Discussion" which could be merged into one part "Results and discussion". Reproducibility data are required. Illustrations must have high quality of resolution. Reference list must be written as indicated in the PRBI GfA. Legends must be detailed as indicated in the PRBI GfA. All the legends must be gathered on specific pages placed after the text and before the Tables and Figures. Five referees of international standing should be suggested, either whose work is cited in the submitted work or who have been working on the topic(s). Language should be carefully checked by one English Language Editing Service (or at least by a professional colleague whose technical English is fluent).

**INTRODUCTION**

*Process Biochemistry* is an application-orientated research journal devoted to reporting advances with originality and novelty, in the science and technology of the processes involving bioactive molecules and living organisms. These processes concern the production of useful metabolites or materials, or the removal of toxic compounds using tools and methods of current biology and engineering. Its main areas of interest include novel bioprocesses and enabling technologies (such as nanobiotechnology, tissue engineering, directed evolution, metabolic engineering, systems biology, and synthetic biology) applicable in food (nutraceutical), healthcare (medical, pharmaceutical, cosmetic), energy (biofuels), environmental, and biorefinery industries and their underlying biological and engineering principles.

Main topics covered include, with most of possible aspects and domains of application: cell culture and fermentation, biochemical and bioreactor engineering; biotechnology processes and their life science aspects; biocatalysis, enzyme engineering and biotransformation; and downstream processing.

Manuscripts and data using response surface methodology (RSM) which are mainly descriptive, without any physiological or systemic explanation or correlations are not suitable for submission to the journal.

**Types of paper**

*Process Biochemistry* accepts three types of manuscripts: Full length articles, Short communications, Reviews and Correspondence.

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A cover letter should be submitted on-line by the authors together with the manuscript, which includes the following points: 1) all authors agree to submit the work to *Process Biochemistry*, 2) the work has not been published/submitted or being submitted to another journal, 3) the novelty and significant contribution of the submitted work are briefly described.

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Moreover the authors must give a list of all related manuscripts/papers, whether in submission or in press.

**PREPARATION**

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This journal operates a double blind review process. All contributions will be initially assessed by the editor for suitability for the journal. Papers deemed suitable are then typically sent to a minimum of two independent expert reviewers to assess the scientific quality of the paper. The Editor is responsible for the final decision regarding acceptance or rejection of articles. The Editor's decision is final. More information on types of peer review.

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Should be concise in the related background description and lead to the objectives and novelty of the work.
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These two parts can be separated as "Results" and "Discussion" or combined into one section. The discussion about each major point of the results is very important, and should not repeat the experimental results; generally citation of related references is necessary.

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This section is not obligatory and can exist as a short paragraph at the end of "Results and Discussion" section. When it exists as a section, it should be short and concise but should not repeat the Abstract. Generally the Conclusion does not cite references, and it is different from the discussion.

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Reference to a chapter in an edited book:
Reference to a website:
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