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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

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GUIDE FOR AUTHORS

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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.

In their on-line submission, authors are required to suggest at least three independent referees (and preferably up to five, outside their own institution) with their position, institution, and email address; and preferably the suggested referees are of international standing and are working on the same or similar topics. The final choice of referees is up to the Editors. All submissions will be reviewed by at least two referees. But, manuscripts will be pre-screened for suitability and may be returned to the authors without peer review if they do not meet the criteria for originality and novelty or cause misunderstanding.

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Please ensure that every reference cited in the text is also present in the reference list (and vice versa). Any references cited in the abstract must be given in full. Unpublished results and personal communications are not recommended in the reference list, but may be mentioned in the text. If these references are included in the reference list they should follow the standard reference style of the journal and should include a substitution of the publication date with either 'Unpublished results' or 'Personal communication'. Citation of a reference as 'in press' implies that the item has been accepted for publication.

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