# Biotechnology and Bioengineering

<https://ou-publier.cirad.fr/en/node/3313>

**Commercial publisher :** Wiley (United States)  
  
**Journal's website :** <http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0290>  
**Information for authors :** <http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1097-0290/homepage/ForAuthors.html>  
  
**Présentation de la revue**  
**Original language :**

Biotechnology & Bioengineering publishes articles that deal with all aspects of applied biotechnology, including: applied aspects of cellular physiology, metabolism, and energetics of bacteria, fungi, animal, and plant cells; enzyme systems and their applications, including enzyme reactors, purification, and applied aspects of protein engineering; animal-cell biotechnology, including media development, modeling, tissue engineering, and applied aspects of cell interactions with their environment and other cells; bioseparation and other downstream processes including cell disruption, chromatography, affinity purifications, extractions, and membrane processing; environmental biotechnology, including aerobic and anaerobic processes, systems involving biofilms, algal systems, detoxification and bioremediation, and genetic aspects; applied genetics and metabolic engineering, including modeling molecular processes of applied interest; plant-cell biotechnology; biochemical engineering, including transport phenomena in bioreactors, bioreactor design, kinetics and modeling of biological systems, instrumentation and control, biological containment, and bioprocess design; biosensors; spectroscopic and other instrumental techniques for biotechnological applications, including NMR and flow cytometry; thermodynamic aspects of cellular systems and their applications; mineral biotechnology, including coal biotechnology; biological aspects of biomass and renewable resources engineering; and fundamental aspects of food biotechnology. The Editors will consider papers for publication based on novelty, their immediate or future impact on biotechnological processes, and their contribution to the advancement of biotechnology and biochemical engineering science. Submission of papers dealing with routine aspects of bioprocessing, description of established equipment, and routine applications of established methodologies (e.g., control strategies, modeling, experimental methods) are discouraged. Theoretical papers will be judged based on the novely of the approach and their potential impact, or on their novel capability to predict and elucidate experimental observations.

**Topics :**   
Technology: multidisciplinary  
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Biology: multidisciplinary  
Genetics, biotech., mol. biol.: multidiscip.  
Microbiology: multidiscip.  
  
**Open access :** Author-paid optional open access  
  
**Languages :** English  
  
**Journal reputation :**   
Peer-reviewed with SCImago Journal Rank (SJR)  
Peer-reviewed with Impact Factor (IF)  
  
**Informations générales**  
**Abbreviated title (ISO) :** Biotechnol. Bioeng.  
**ISSN :** 0006-3592 (ISSN-L); 0006-3592 (ISSN-Print); 1097-0290 (ISSN-Electronic)  
**Frequency :** 12 issues/year (Monthly)

**Article types :** Research articles, Reviews, Short articles, Commentaries, Minireviews, Opinions  
  
**Publishing costs :** No  
**Cost of optional open access :** 4070 € (updated 22/02/2023)  
  
**Données de la recherche**  
**Research data access policy :** Deposit recommended  
**Data repositories recommended by the journal :** <https://onlinelibrary.wiley.com/page/journal/10970290/homepage/ForAuthors.html#_5._EDITORIAL_POLICIES>  
  
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