

Special Issue

Cancer Photodiagnosis and Photodynamic Therapy

Message from the Guest Editor

A successful cancer treatment hinges on accurate diagnosis, precise tumor resection and targeted therapy with minimum normal tissue toxicity. Used in combination with non-ionizing radiation, photodiagnostic probes and photosensitizers with little dark toxicity are being developed to improve cancer treatment outcomes. Three fluorescent probes including methylene blue, fluorescein and indocyanine green have been used in the clinic for over half a century. Two most recent FDA-approved intraoperative probes are 5-aminolevulinic acid and pafolacianine. They make tumors visible to surgeons, thereby enabling fluorescence image-guided tumor resection, by revealing tumor-associated metabolic alterations. It is the combination of photoactive drug development and the engineering of companion optical devices that makes cancer photodiagnosis and photodynamic therapy a clinical success. This Special Issue of *Bioengineering* is to celebrate the success of this multidisciplinary research and development, tackle current issues in the field, and foresee future developments to expand its application in oncology.

Guest Editor

Prof. Dr. Bin Chen

Department of Pharmaceutical Sciences, Philadelphia College of Pharmacy, Saint Joseph's University, Philadelphia, PA 19104, USA

Deadline for manuscript submissions

closed (31 August 2023)



Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



mdpi.com/si/124411

Bioengineering
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
bioengineering@mdpi.com

[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)





Bioengineering

an Open Access Journal
by MDPI

Impact Factor 3.7
CiteScore 5.3
Indexed in PubMed



[mdpi.com/journal/
bioengineering](https://mdpi.com/journal/bioengineering)



About the Journal

Message from the Editor-in-Chief

You are invited to contribute a research article or a comprehensive review for consideration and publication in *Bioengineering* (ISSN 2306-5354). *Bioengineering* is published in open access format – research articles, reviews and other contents are released on the Internet immediately after acceptance. The scientific community and the general public have unlimited and free access to the content as soon as it is published. *Bioengineering* provides an advanced forum for the science and technology of bioengineering. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Anthony Guiseppi-Elie

Department of Biomedical Engineering, Texas A&M University, College Station, TX 77843, USA

Author Benefits

High Visibility:

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, CAPIus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Biomedical) Rapid Publication: manuscripts are peer-reviewed and a first decision is provided to authors approximately 19.2 days after submission; acceptance to publication is undertaken in 3.3 days (median values for papers published in this journal in the first half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.