Special Issue

Label-Free Cancer Detection

Message from the Guest Editor

Label-free techniques have emerged as transformative tools in biomedical research and clinical applications, offering cancer detection capabilities without the need for external labeling agents. These approaches minimize sample preparation time and reduce potential perturbations, paving the way for real-time, cost-effective practice. Label-free detection also fosters minimally and non-invasive identification of cancer biomarkers, enabling home and point-of-care sampling of liquid biopsies. This Special Issue seeks to highlight cutting-edge advancements in the field, including but not limited to optical, spectroscopic, nanotechnological, and biosensing methods, as well as their integration into diagnostic platforms (e.g., microfluidics and arrays). We welcome contributions that showcase the development, optimization, and clinical translation of label-free systems for cancer detection, with the goal of enhancing early diagnosis and improving patient outcomes.

Guest Editor

Dr. Raphaël Canadas

Faculty of Medicine, University of Porto, 4200-319 Porto, Portugal

Deadline for manuscript submissions

31 December 2025

Bioengineering

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, CAPlus / 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.