



Laser Application in Life Sciences 2022

Guest Editor:

**Prof. Dr. Herbert
Schneckenburger**

Institute of Applied Research,
Aalen University, Beethovenstr. 1,
73430 Aalen, Germany

Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editor

Dear Colleagues,

Due to their specific properties, including focusing, spectral bandwidth, or coherence, lasers have become indispensable diagnostic and therapeutic tools in Biomedical Optics. Light absorption, elastic or inelastic (Raman) scattering, and autofluorescence or Optical Coherence Tomography (OCT) are used increasingly for label-free diagnostics of cells or tissues. In addition, numerous fluorescent dyes and fluorescent proteins are available for the detection of diseases or for measuring interactions of pharmaceutical agents. Depending on their power, wavelength, and pulse duration, lasers are also used for coagulation, tissue cutting, or even lithotripsy of bile or kidney stones. This specific volume is dedicated to the large field of biological and medical applications of lasers including spectroscopy and microscopy, light propagation, as well as diagnostic and therapeutic applications.

Prof. Dr. Herbert Schneckenburger

Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Maurizio Battino

Department of
Odontostomatologic and
Specialized Clinical Sciences,
Sez-Biochimica, Faculty of
Medicine, Università Politecnica
delle Marche, Via Ranieri 65,
60100 Ancona, Italy

Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, PMC, MEDLINE, Embase, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q1 (*Biochemistry & Molecular Biology*) / CiteScore - Q1 (*Inorganic Chemistry*)

Contact Us

*International Journal of Molecular
Sciences* Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/ijms
ijms@mdpi.com
X@IJMS_MDPI