



## 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





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

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