Special Issue

Infrared and Raman Spectroscopy of Human Diseases: 2nd Edition

Message from the Guest Editors

Infrared (IR) and Raman (RS) spectroscopy are used herewith to research human diseases at a molecular level. IR and RS are complementary; both allow for a simultaneous analysis of all the components of the human tissues, liquid materials, or single cells, at a molecular level. Specific spectra of the biological molecules can be used to locate characteristic bands called “marker bands” in “fingerprint” regions in order to distinguish the native (healthy) state from the diseased one. The spectra of biological molecules are sensitive to structural changes induced by the environment of these molecules and various affecting diseases including splachnic cancer, musculoskeletal neoplasms, cardiovascular diseases, diabetes mellitus, amyloidosis, and neurological diseases. Additionally, since IR and RS are non-destructive, easy, and simple methods that require extremely small amounts of tissue samples for analysis. We scheduled this Special Issue with the aim of collecting original papers, educative reviews, technical papers, and other forms of scientific communication on the molecular science of human disease.

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Deadline for manuscript submissions

closed (15 September 2024)

International Journal of Molecular Sciences

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.0
Indexed in PubMed

mdpi.com/si/186465

International Journal of Molecular Sciences
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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.

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