

Special Issue

Molecular Applications of Spectroscopy in Drug Structure and Activity Analysis

Message from the Guest Editor

Spectroscopy refers to the study of the interaction of electromagnetic radiation with the matter. It has widely contributed to applications in pharmacy due to its capability of solving important problems. Spectroscopic techniques (Raman, IR, UV/Vis, XRD, etc.) have proven to be crucial for the development and circulation of pharmaceutical formulation in the market. Examining ingredient purity, drug crystal structure, drug polymorphism, and interactions between active ingredients and excipients are some issues necessitating the integration of spectroscopy. This Special Issue is devoted to the manufacturing procedures of drugs, i.e., preparation and analysis, before release to the market, as well as the use of spectroscopic techniques serving as a tool to solve issues during these stages. Original research papers, short communications and reviews are welcomed. Relevant topics may include, but not limited to, the following: raw material identification and purity, solid form screening, formulation analysis, preformulation, quality control of finished products, counterfeit identification, reverse engineering, polymorphism, interaction between APIs and excipients, and API stability.

Guest Editor

Dr. Malvina Orkoulou

Department of Pharmacy, University of Patras, GR26504 Patras, Greece

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

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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

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