Special Issue

Structural Studies in Drug Discovery and Development: From the Lead to the Pharmaceutical Form

Message from the Guest Editors

Crystallography is an invaluable tool in the pharmaceutical field for the study of both ligands and biological targets. In the early stages of the drug discovery process, single-crystal X-ray diffraction (SC-XRD) is a necessary resource for the synthesis of many compounds. Furthermore, the important contribution of structural biology to the definition of the binding mode of compounds to their molecular targets should also be acknowledged. However, the relevance of crystallography is not limited to the lead selection and development phases. An extensive analysis of solid states, especially when focused on the study of the intermolecular interactions and crystal packing, is fundamental for the examination of polymorphic forms and co-crystals. These data are often pivotal for the identification of the most suitable pharmaceutical forms and for determining information based on their solubility and stability.

For this Special Issue, we would be delighted to receive research contributions based on these premises, either in the form of an original research paper, a short communication, or a focus review.

Guest Editors

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About the Journal

Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

Editor-in-Chief

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