

Special Issue

From Molecules to Tissues: Health, Injury and Disease

Message from the Guest Editor

Homeostasis in humans is a complex process consisting of cellular and sub-cellular molecular interactions and responses that affect tissue structure and function. We need to understand the mechanics and mechanisms of homeostasis at these various hierarchical levels at a high level of detail. Recent advancements in determining multi-scale tissue properties and attributing them to total body functions have improved drastically. X-ray diffraction (XRD), electron microscopy (EM) and cryo-EM are amongst the most popular techniques. This Special Issue is focused on collecting cutting-edge research elucidating the multi-scale structure and function of human and animal tissues and their potential use in mathematical modeling of these tissues at all hierarchical levels. That is, contributions relevant to any part of this scale, and those that are multi-scale, are especially welcome. Manuscripts that describe the development of methods to determine these properties will also be accepted, alongside those that describe mathematical models based on previously performed experimental works.

Guest Editor

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Deadline for manuscript submissions

closed (10 October 2023)



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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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