



From Molecules to Tissues: Health, Injury and Disease

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Message from the Guest Editor

Dear Colleagues,

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.

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Guest Editor





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Message from the Editor-in-Chief

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