

Special Issue

Novel Insights into the Cardiovascular System: From Analytical Approach to Application

Message from the Guest Editor

I am pleased to announce a new Special Issue of *Applied Sciences* dedicated to the cardiovascular system, especially emphasizing newer methods and analytical tools to evaluate it. Healthy microcirculation is crucial for maintaining cardiovascular health and tissue survival. Dysfunctional microcirculation is often one of the earliest hallmarks of various diseases, underscoring the importance of understanding its (patho)physiological background. Despite many efforts in developing new techniques for monitoring various aspects of the cardiovascular system, significant gaps remain, particularly concerning in vivo tracings essential for routine clinical practice. This SI aims to attract experts from various scientific fields, from theoretical approaches and mechanistic studies of the cardiovascular system to physicians involved in clinical practice and engineers developing mathematical models, advanced technological devices, and sophisticated signal analysis algorithms for hemodynamic monitoring. We welcome original research, review articles, and case reports that will contribute to expanding our knowledge of the cardiovascular system's functioning and tracing.

Guest Editor

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About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

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