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Biofluids in Medicine: Models, Computational Methods and Applications

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Deadline for manuscript submissions:
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Message from the Guest Editors

The emphasis of this Special Issue is on mathematical models, computational methods, and ambitious applications of clinical relevance in any physiopathology that involves the dynamics of bodily fluids. Contributions reporting original, unpublished research or comprehensive reviews on specific topics are welcome. They may include the construction of basic models and the development of novel computational techniques as well as the utilization of existing computational models. Contributions on experimental measurements that support the construction of mathematical and computational models are also welcome.

Holistic approaches are strongly encouraged, in which anatomical and functional connections amongst different fluid compartments are recognized. Fluid systems of special interest are blood (arterial, venous, and microcirculation), cerebrospinal fluid, interstitial fluid, to name but a few. Diseases of interest include cardiovascular diseases and neurological diseases. Contributions on the physiology and pathology of specific organs are encouraged.

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Message from the Editor-in-Chief

Symmetry is ultimately the most important concept in natural sciences. It is not surprising then that very basic and fundamental research achievements are related to symmetry. For instance, the Nobel Prize in Physics 1979 (Glashow, Salam, Weinberg) was received for a unified symmetry description of electromagnetic and weak interactions, while the Nobel Prize in Physics 2008 (Nambu, Kobayashi, Maskawa) was received for the discovery of the mechanism of spontaneous breaking of symmetry, including CP symmetry. Our journal is named *Symmetry* and it manifests its fundamental role in nature.

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