Special Issue

Data Driven Modelling of Disease and Therapy Mechanisms

Message from the Guest Editor

Introduction: Electrical signaling underlies communication and information exchange in all organs of all mammals, including humans. Mathematical–computational modelling of electrical activity has led to deeper insights into disease mechanisms and is increasingly being used in pre-clinical drug and device testing. A significant effort has been dedicated to developing the methods and scientific platforms (software) used in modelling. This Special Issue is designed to catalyze inter-research group interactions, thus enhancing our collective approaches. *Scope of call:* This Special Issue invites contributions that use scientific platforms (software) to uncover disease mechanisms and assess treatment efficacy. We welcome contributions on the topics listed below, and other manuscripts will be considered as well.

- multi-scale cardiac electrophysiology
- multi-scale cerebral electrophysiology
- electrical modelling in other organs

Guest Editor

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Deadline for manuscript submissions

closed (10 January 2022)

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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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