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Multiscale Modeling and Control of Biomedical Systems

Guest Editors:

Dr. Vahid Rezania

Department of Physical Sciences, MacEwan University, Edmonton, AB T5J 4S2, Canada

Dr. Harvey Ho

Auckland Bioengineering Institute, The University of Auckland, Auckland 1010, New Zealand

Dr. Yuncheng Du

Department of Biomedical Engineering, Cullen College of Engineering, The University of Houston, 3517 Cullen Blvd, Houston, TX 77204, USA

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Message from the Guest Editors

Dear Colleagues,

The multiscale modeling and control of biomedical systems is an interdisciplinary field that involves the integration of mathematical modeling, physical and chemical principles, and physiological and biological knowledge to study and manipulate complex biological systems at different spatial and temporal scales. It encompasses a wide range of biomedical applications, including, but not limited to, physiological systems, cellular and molecular systems, neural systems, and diseases.

The goal is to provide a quantitative framework for describing the dynamics and interactions of different components within a biological system, and to generate testable hypotheses that can be validated experimentally with broad applications in biomedical research and clinical practice. These models provide powerful tools to advance our understanding of the behavior of complex biological systems and design interventions and therapies to improve human health.











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Editor-in-Chief

Prof. Dr. Giancarlo CravottoDepartment of Drug Science and

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

Message from the Editor-in-Chief

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