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Recent Advances in Supramolecular Motility Machinery of Microorganisms

Guest Editors:

Dr. Tohru Minamino
Graduate School of Frontier Biosciences, Osaka University, Suita, Japan

Dr. Yusuke V. Morimoto
Faculty of Computer Science and Systems Engineering, Kyushu Institute of Technology, Iizuka, Fukuoka, Japan

Dr. Daisuke Nakane
Department of Engineering Science, Graduate School of Informatics and Engineering, The University of Electro-Communications, Tokyo, Japan

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Message from the Guest Editors

Microorganisms use their own motility machinery to move in a variety of environments, and their locomotion is regulated by complex sensory signal transduction pathways that allow microorganisms to migrate towards more favorable environments and away from less favorable environments for survival. The motility apparatus is a supramolecular protein complex containing motor proteins that convert electrochemical or chemical energy to mechanical works for locomotion. Furthermore, the motor proteins can autonomously adjust their mechanical functions in response to changes in the environment.

Because locomotion is one of the most fascinating aspects of live organisms, supramolecular motility machines continue to fascinate many researchers. This Special Issue on Biomolecules is dedicated to covering recent understanding and perspectives of supramolecular motility machinery derived from bacteria, archaea, and other microorganisms. Our aim is to compile articles describing recent advances in the structure, assembly, and function of various motor protein complexes including bacterial flagella, type IV pili, archaella, and adhesion-based gliding machinery.

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Editors-in-Chief

Prof. Dr. Peter E. Nielsen
Department of Cellular and Molecular Medicine, Faculty of Health and Medical Sciences, University of Copenhagen, Blegdamsvej 3C, DK-2200 Copenhagen, Denmark

Prof. Dr. Lukasz Kurgan
Department of Computer Science, Virginia Commonwealth University, Richmond, VA 23284, USA

Message from the Editorial Board

Biomolecules is a multidisciplinary open-access journal that reports on all aspects of research related to biogenic substances, from small molecules to complex polymers. We invite manuscripts of high scientific quality that pertain to the diverse aspects relevant to organic molecules, irrespective of the biological question or methodology. We aim for a competent, fair peer review and rapid publication. Please look at some of the exciting work that has been published in *Biomolecules* so far. We would be delighted to welcome you as one of our authors.

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Biomolecules Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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