

## Special Issue

# Recent Advances in Supramolecular Motility Machinery of Microorganisms

### 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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### Guest Editors

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Dr. Yusuke V. Morimoto

Dr. Daisuke Nakane

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### Deadline for manuscript submissions

closed (31 December 2024)



## Biomolecules

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### 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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