

Special Issue

Molecular Mechanisms of Bacterial Communication and Their Control

Message from the Guest Editors

The ability of a bacterium to colonize and adapt to an ecological niche is highly dependent on its capacity to perceive and analyze its environment, in addition to its ability to interact with its hosts and congeners.

Membrane sensors such as two-component systems are powerful tools that fulfill these functions. Bacteria use also cell-to-cell communication systems based on both the synthesis and perception of signaling molecules to synchronize their social behavior. These quorum-sensing systems control diverse functions and require the concerted actions of numerous cells in order to be productive, such as antibiotic synthesis, motility, symbiosis, biofilm maturation, sporulation, and virulence. This Special Issue welcomes researchers who wish to contribute to the publication of research articles, reviews, and opinions addressing the molecular mechanisms of bacterial communication and/or their control, leading to mechanistic or applied progress.

Guest Editors

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Deadline for manuscript submissions

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The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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