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# Molecular Mechanisms of Bacterial Communication and Their Control

Guest Editors:

#### Prof. Dr. Xavier Latour

Bacterial Communication and Anti-infectious Strategies (CBSA UR 4312), University of Rouen Normandy (Normandy University), 55 rue Saint-Germain, 27000 Evreux, France

## **Dr. Corinne Barbey**

Bacterial Communication and Anti-infectious Strategies (CBSA UR 4312), University of Rouen Normandy (Normandy University), 55 rue Saint-Germain, 27000 Evreux, France

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# **Message from the Guest Editors**

Dear Colleagues,

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-tocell 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.

Prof. Dr. Xavier Latour Dr. Corinne Barbey *Guest Editors* 



**Special**sue









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## **Editor-in-Chief**

### Prof. Dr. Maurizio Battino

Department of Odontostomatologic and Specialized Clinical Sciences, Sez-Biochimica, Faculty of Medicine, Università Politecnica delle Marche, Via Ranieri 65, 60100 Ancona, Italy

## Message from the Editor-in-Chief

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