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Extracellular Matrix of Microbial Biofilms

Guest Editor:

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Message from the Guest Editor

The extracellular matrix (ECM) serves as a physical substratum crucial for maintaining the architecture of biofilms, and it typically consists of a mixture of exopolysaccharides, proteins, nucleic acids, and other components. The ECM provides numerous benefits to the cells within the biofilm (such as acting as a molecular glue to facilitate cell adhesion; conferring protection from various stresses; maintaining structural integrity; establishing nutrient and waste product gradients; and participating in cell–cell communication, migration, or genetic exchange).<false,>This Special Issue aims to provide a multidisciplinary platform for scholars to share valuable information about recent findings (both basic and applied) on the ECM of microbial biofilms. Special emphasis will be placed on the basic components of the ECM, organization and architectures, macromolecular interactions, construction processes, biological and physiological functions, its potential as a target for biofilm control, and analysis methodologies, among other things.

Original research articles, short communications, and reviews are warmly welcomed for submission.

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Message from the Editor-in-Chief

"Microorganism" merges the idea of the very small with the idea of the evolving reproducing organism is a unifying principle for the discipline of microbiology. Our journal recognizes the broadly diverse yet connected nature of microorganisms and provides an advanced publishing forum for original articles from scientists involved in high-quality basic and applied research on any prokaryotic or eukaryotic microorganism, and for research on the ecology, genomics and evolution of microbial communities as well as that exploring cultured microorganisms in the laboratory.

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