Special Issue

Analysis of Bacterial Ribosomes and Interacting Factors

Message from the Guest Editor

Ribosomes are a natural wonder, a macromolecular machine responsible for protein synthesis in all living organisms. Bacterial ribosomes are composed of two asymmetric subunits that differ in their composition: the 30S small subunit is made up of one rRNA molecule (16S rRNA), while the 50S large subunit holds two rRNA molecules (5S and 23S rRNAs), and together with numerous ribosomal proteins, these associate to form the functionally active 70S ribosome. In this Special Issue, we are interested in highlighting different regulatory mechanisms that affect the ribosome's assembly and/or its activity across different microorganisms. These include the maturation, folding, stability and function of ribosome-interacting RNAs and proteins. Overall, we aim to address the multiple facets of ribosome biogenesis and its interacting partners in the control of the efficiency and fidelity of translation.
Keywords: bacterial ribosomes; rRNA; mRNA; tRNA; ncRNA; ribosome biogenesis; ribosomal proteins; nonribosomal proteins; translation; quality control

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"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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