

Special Issue

Structural Biology of Phages

Message from the Guest Editors

The viruses that infect bacteria—bacteriophages or phages—are the most abundant biological entities on Earth. Phages play an important role in the dynamics of bacterial communities with implications for biogeochemistry, biomes, health (phage therapy), and industry. Phage virions exhibit a broad spectrum of structural morphologies: icosahedral, filamentous, tailed, and pleomorphic particles. Their assembly follows a defined program of sequential protein and protein–nucleic acid interactions. Infectious particles attach specifically to bacterial receptors belonging to various biochemical families, such as surface proteins, polysaccharides, and lipopolysaccharides. Therefore, understanding the structure–function relationship of phage particles and the complex dynamics of phage–host interactions is of much interest and requires the exploration of different phage/host couples in addition to the classical model systems.

Guest Editors

Prof. Christian Cambillau

Architecture et Fonction des Macromolécules Biologiques, Centre National de la Recherche Scientifique (CNRS), Marseille, France

Dr. Paulo Tavares

Department of Virology, I2BC, CNRS, CEA, University Paris-Saclay, 91190 Saint-Aubin, France

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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.

Editor-in-Chief

Dr. Nico Jehmlich

Department of Molecular Toxicology, UFZ-Helmholtz Centre for Environmental Research, 04318 Leipzig, Germany

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