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Special Issue on Bacteriophage

Call for Papers

This special issue on "**Bacteriophage**" will be focusing on the latest development in being antibacterial agents to treat bacterial infections. A bacteriophage (informally, phage) is a virus that infects and replicates within bacteria. Bacteriophages are composed of proteins that encapsulate a DNA or RNA genome, and may have relatively simple or elaborate structures. Their genomes may encode as few as four genes, and as many as hundreds of genes. Phage replicate within bacteria following the injection of their genome into the cytoplasm. Bacteriophages are among the most common and diverse entities in the biosphere. Phages are widely distributed in locations populated by bacterial hosts, such as soil or the intestines of animals. One of the densest natural sources for phages and other viruses is sea water, and up to 70% of marine bacteria may be infected by phages. They have been used for over 90 years as an alternative to antibiotics in the former Soviet Union and Eastern Europe, as well as in France. They are seen as a possible therapy against multi-drug-resistant strains of many bacteria. As one of the most important research fields of microbiology research, **bacteriophage** is of great attractions to researchers.

In this special issue, we intend to invite front-line researchers and authors to submit original researches and review articles on exploring **bacteriophage**. Potential topics include, but are not limited to:

- Lytic cycle
- Antibacterial agents
- Prophage
- Bacterial receptors
- Bacterial infections

Authors should read over the journal's Authors' Guidelines carefully before submission, Prospective authors should submit an electronic copy of their complete manuscript through the journal Paper Submission System.

Please kindly notice that the "**Special Issue**" under your manuscript title is supposed to be specified and the research field "**Special Issue - *Bacteriophage***" should be chosen during your submission.

According to the following timetable:

Manuscript Due	July 10th, 2014
Publication Date	September 2014

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Guest Editor:

Prof. **Frans J. de Bruijn**
INRA/CNRS Laboratory of the Interaction Plant-Microorganisms, France

For further questions or inquiries
Please contact Editorial Assistant at
aim@scirp.org

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