



Advances in Bacterial Genetics

Guest Editors:

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Message from the Guest Editors

Dear Colleagues,

This Special Issue aims to expand the current state of the art regarding all the areas of bacterial genetics.

-Evolutionary mechanisms: bacteria are able to rapidly evolve and adapt to constantly changing environmental conditions, thanks to the constant fine tuning of their mutation rates and to the horizontal transfer of genetic information among different bacteria;

-Regulatory mechanisms: thanks to the huge array of genetic tools that enable bacteria to control all levels of gene expression;

-Growth and differentiation;

-Pathogenicity mechanisms and spreading of antibiotic resistance;

-Bacterial communication and interaction with each other and with the surrounding environment;

-Symbiotic lifestyle;

-Ecological roles;

-Systems biology and metabolic modelling: since most bacteria have not yet been characterized and there are many species that cannot be grown in the laboratory, these disciplines can allow studying and predicting those processes which could not be studied otherwise.

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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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