

Special Issue

Bacterial Gene Therapy

Message from the Guest Editor

Bacterial gene therapy includes several approaches, such as bactofection, bacterial protein delivery, transkingdom RNA interference or bacterial DNA vaccination. Strict regulations and safety concerns represent a barrier to the transition of these strategies to the clinics. Nevertheless, recent advances in molecular biomedicine and microbiome studies have put bacterial gene therapy back into play. Tools such as fecal microbiota transplantation or recombinant probiotics open new avenues for bacterial gene therapy strategies. This Special Issue will cover recent advances in bacterial gene therapy of human as well as animal and plant disease. Original research articles, as well as reviews and perspectives, focusing on standard or novel approaches of bacterial gene therapy, clinical applications, molecular mechanisms, bacteria–host interactions, recombinant probiotics, bacterial vector design and related areas are welcome.

Guest Editor

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About the Journal

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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