

# Special Issue

## Probiotics and Synbiotics— Options to Manage Infections with Multi-Drug Resistant Bacteria?

### Message from the Guest Editor

Antibiotic resistance has become a major concern worldwide. Bacteria with a broad range of resistance against antibiotics are spreading at an alarming rate. The steady trend of increasing resistance coupled with the lack of new antibiotic developments targeting resistant bacteria is forcing clinicians to apply more aggressive antibiotic dosing regimens, such as prolonged administration and combinations of different antibiotics. The administration of pro- or synbiotics is a promising strategy to support this natural mechanism. Prophylactic administration of probiotic bacteria as well as administration in combination with antibiotics have to be considered. More research is needed to establish a better understanding of the potential role of probiotic microorganisms in this challenging task of healthcare. Research articles, review papers and commentaries are welcome. Keywords include, but are not limited to:

- gut microbiota
- probiotics
- synbiotics
- gut colonization resistance
- multi-drug resistance
- pathogen inhibition
- nosocomial infections
- post-antibiotic era

### Guest Editor

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### Deadline for manuscript submissions

closed (20 November 2021)



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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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### Editor-in-Chief

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