



an Open Access Journal by MDPI

# **Genetics and Physiology of Corynebacteria**

Guest Editors:

#### Dr. Miroslav Pátek

Institute of Microbiology of the Academy of Sciences of the Czech Republic, Prague, Czech Republic

#### Prof. Dr. Andreas Burkovski

Microbiology Division, Friedrich-Alexander-Universität Erlangen-Nürnberg, 91058 Erlangen, Germany

Deadline for manuscript submissions: closed (28 February 2021)

#### Message from the Guest Editors

Corynebacterium is a genus of Gram-positive bacteria that is classified as Actinobacteria and is phylogenetically related to mycobacteria, rhodococci, and nocardiae. This diverse group of rod-shaped or club-shaped (coryneform) microorganisms includes human, animal and plant pathogens, as well as saprophytes. The most notable human pathogen is Corynebacterium diphtheriae, which is the causative agent of diphtheria. Several species cause diseases in animals, most notably C. pseudotuberculosis, whereas other corvnebacteria are opportunistic pathogens causing diseases in immunocompromised people. Numerous corynebacteria are innocuous commensals found in the mucosa and normal skin flora of humans and animals. A noteworthy positive side of corynebacteria is their broad range of biotechnological applications. C. glutamicum is considered a prominent workhorse in the biotechnology industry. In addition to practical aspects, C. glutamicum has become one of the best-studied model bacteria. This Special Issue invites you to submit manuscripts concerning any aspect of the genetics and physiology of both pathogenic and biotechnologically relevant corynebacteria.



mdpi.com/si/53445







an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Dr. Nico Jehmlich

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

### 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 highquality 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.

## **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions. **High Visibility:** indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, CAPlus / SciFinder, AGRIS, and other databases. **Journal Rank:** JCR - Q2 (*Microbiology*) / CiteScore - Q2 (*Microbiology (medical)*)

### **Contact Us**

*Microorganisms* Editorial Office MDPI, St. Alban-Anlage 66 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/microorganisms microorganisms@mdpi.com X@Micro\_MDPI