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# Adaptation Mechanisms of Microbial Pathogens to Their Host Niche

Guest Editor:

# Dr. Michael Blatzer

EA DYNAMIC 7380, Faculté de Santé, Université Paris-Est Créteil (UPEC), Créteil, France

Deadline for manuscript submissions: closed (31 March 2022)

### Message from the Guest Editor

Dear Colleagues,

Microbes are able to infect almost all life forms, ranging from plants to animals and humans. The host range can be as diverse as the microbial adaptation mechanisms are multifaceted to invade and survive in the host and establish infection in different tissues. During this process, microorganisms encounter severe and rapid environmental challenges due to host defense mechanisms and the rapidly changing availability of nutrients, oxygen and temperature levels, or pH values. Understanding how bacteria and fungi sense and host-imposed stress antimicrobial overcome and treatment is of paramount importance to understand virulence and to improve treatment strategies. Hostmicrobe crosstalk at a molecular and cellular level requires transcriptional and metabolic adaptation.

This Special Issue will demonstrate distinct and common adaptation mechanisms of microbial pathogens to their host niches in an integrated manner. We cordially invite you to submit research articles, review articles, and short communications related to microbial adaptation mechanisms to host-imposed stressors.

Dr. Michael Blatzer Guest Editor





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#### Dr. Nico Jehmlich

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

### Message from the Editor-in-Chief

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*Microorganisms* Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 www.mdpi.com mdpi.com/journal/microorganisms microorganisms@mdpi.com X@Micro\_MDPI