Special Issue

Protective Mechanisms against *Staphylococcus aureus*: Antibodies, Cell Mediated Immunity and Trained Immunity

Message from the Guest Editors

Staphylococcus aureus is an antibiotic-resistant pathogen causing a tremendous healthcare burden worldwide. Alternative medical interventions to antibiotics are urgently needed, but unfortunately attempts to develop vaccines and monoclonal antibodies have so far failed or have met with limited success. There are several potential reasons behind limited success/failure and one of the most important is the lack of a sufficient understanding of protective mechanisms. In this Special Issue we will focus on the role of antibodies, cell mediated immunity, and trained immunity for preventing or treating *S. aureus* infections. The ultimate aim of this issue is to gather, from key opinion leaders in the field, the most advanced knowledge for guiding research and development of novel medical interventions against this deadly pathogen with the potential to save thousands of lives and reduce the emergence of antimicrobial resistance.

Guest Editors

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"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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