



## Molecular Mechanism and Detection of Anti-microbial Resistance in Bacteria

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### Message from the Guest Editors

Dear Colleagues,

Emergence of anti-microbial resistance among major bacterial pathogens became a major public health threat affecting humans worldwide. The bacterial resistance to antibiotics includes molecular mechanisms including mutational adaptations, acquisition of genetic material, and alteration of gene expression of resistance genes. These mechanisms implement bacterial adaptation and evolution against antibiotic stress. Thus, investigating biochemical and genetic basis of anti-microbial resistance is important to develop methods to reduce the spread of resistance and to devise effective treatment approaches against antibiotic resistant bacteria.

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