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## Exploring Metabolic Adaptation of Microbials to Antibiotics

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### Message from the Guest Editor

Dear Colleagues,

We are pleased to announce a Special Issue of the journal *Metabolites* dedicated to approaches to investigate the metabolic adaptation of bacterial pathogens towards antibiotics.

The rapid development of bacterial resistance to antibiotics is among the most severe threats to human health. In the last 40 years, only two new classes of antibiotics have been introduced. Facing an increasing occurrence of pathogenic bacteria resistant to known antibiotics, the search for new antimicrobial compounds with possible new modes of action is an emerging field of research. Knowledge of the mechanisms with which bacteria cope with antimicrobial stress conditions is essential to understanding the modes of action and possible loopholes in which pathogens can escape the impact of antibiotics. Since naturally occurring molecules, in most cases, have many issues preventing their direct introduction to the clinic, the analysis of promising antimicrobial derivatives using metabolomics methods could pave the way to finding new antibiotics. This Special Issue aims to incorporate novel and review papers from a wide range of key topics in the field of antibiotics research.

Prof. Dr. Michael Lalk

*Guest Editor*

