## **Topical Collection**

## State-of-the-Art Molecular Microbiology in China

## **Message from the Collection Editors**

This Topical Collection aims to provide a comprehensive overview of recent advances in molecular microbiology in China by inviting contributions from Chinese research institutes/laboratories that consolidate our understanding of this area. Topics include, but are not limited to, the following:

- Antibiotic resistance mechanisms;
- Biosynthesis of macromolecules;
- Cell division and cell wall structure;
- Gene expression and its regulation;
- Gene transfer mechanisms;
- Host-pathogen interactions, including host responses;
- Induction of cell death by microorganisms;
- Membrane biogenesis and function;
- Pathogenicity mechanisms;
- Post-translational modifications:
- Protein delivery (secretion and trafficking);
- Signaling pathways and networks;
- Systems biology;
- Vaccines;
- Virulence factors:
- Antimicrobial peptides;
- Therapeutic strategies:
- Nutrients metabolism:
- Genomics and metagenomics:
- Interaction of microbes with host:
- Protein structure and function:
- Probiotics:
- Communication of microbes;
- Synthetic biology;
- Animal and human gut health.

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## Message from the Editor-in-Chief

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### Editor-in-Chief

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