

Special Issue

Antimicrobial Peptides: Structure and Mechanism of Biological Activity: 3rd Edition

Message from the Guest Editor

Dear Colleagues The focus of this issue will be on the structure and dynamic modes of interaction of antimicrobial peptides with their host cells and their mechanism(s) of biological activity. Emphasis will be mostly on these topics: (i) composition and dynamics of microbial cell membranes, (ii) effect of membrane lipids on interaction of antimicrobial peptides, (iii) general and specific modes of interaction of antimicrobial peptides with membrane lipids and membrane proteins, (iv) conformational changes and self-association of antimicrobial peptides, (v) antimicrobial peptide structures, (vi) interaction of antimicrobial peptides with organelles of the eukaryotic cells, (vii) interaction of antimicrobial peptides with nucleic acids, (viii) interaction of viruses with antimicrobial peptides, (ix) antimicrobial peptides with multiple biological activities, (x) structural and functional features of antimicrobial peptides in vivo, (xi) visualizing integrated pathways of antimicrobial peptides in microbial and non-microbial cells, and (xii) traditional and new experimental and theoretical methods in characterizing the biological function of antimicrobial peptides.

Guest Editor

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