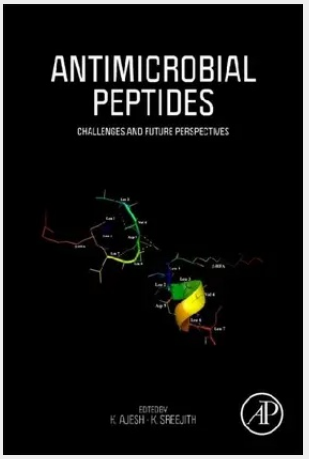
Ajesh / Sreejith

Antimicrobial Peptides

Challenges and Future Perspectives



Antimicrobial Peptides: Challenges and Future Perspectives covers the latest developments about antimicrobial peptides in the scenario of drug resistance. The book is divided into 16 chapters arranged in sequence and preceded by chapters on historical developments and their role as regulatory molecules in innate defense mechanism. Emphasis is given to purification techniques and characterization suitable for interdisciplinary research. Chapters provide an inventory of various antimicrobial peptides, from a diverse array of organisms such as bacteria, fungi, insects, amphibians, plants and mammals. A section on marine ecosystem broadens readers understanding on marine based antimicrobial peptides. Additional sections provide an informative overview on peptides with antiviral properties and those targeting multi-drug resistant bacteria. Recent reports and mechanism on resistance against antimicrobial peptides are also provided, along with key insights into the challenges and future perspectives of peptide drug development.

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