1. Record Nr.   UNINA9910633980803321

   Titolo   Insights on Antimicrobial Peptides / / edited by Shymaa Enany, Jorge
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   Pubbl/distr/stampa   London : , : IntechOpen, , 2022

   ISBN   1-83969-714-8

   Descrizione fisica   1 online resource (166 pages)

   Disciplina   615.1

   Soggetti   Peptide antibiotics

   Lingua di pubblicazione Inglese

   Formato   Materiale a stampa

   Livello bibliografico Monografia

   Nota di contenuto   1. Introductory Chapter: Antimicrobial Peptides - Prodigious
                         Therapeutic Strategies -- 2. Anti-Microbial Peptides: The Importance of
                         Structure-Function Analysis in the Design of New AMPs -- 3.
                         Antimicrobial Peptides: Mechanism of Action -- 4. Antimicrobial
                         Peptides Derived from Ascidians and Associated Cyanobacteria -- 5.
                         Molecular Pathogenesis of Inflammatory Cytokines in Insulin Resistance
                         Diabetes Mellitus -- 6. Mass Spectrometry (Imaging) for Detection and
                         Identification of Cyclic AMPs: Focus on Human Neutrophil Peptides
                         (HNPs) -- 7. Cloning and Identification System of Apis mellifera Melittin
                         cDNA in Escherichia coli -- 8. Peptides with Therapeutic Potential
                         against Acinetobacter baumanii Infections.

   Sommario/riassunto   Modern medicine is impossible without antibiotics, but global antibiotic
                         usage has led to the development of increasing numbers of multi-drug
                         resistant (MDR) bacteria. Thus, we still have problems with infectious
                         disease treatment despite an arsenal of antibiotics. This has forced
                         researchers to develop new drugs that will be effective against resistant
                         bacteria. Some of these prospective molecules are antimicrobial
                         peptides (AMPs), which are an important component of the innate
                         immune system of various organisms in nature. Currently, more than
                         3,000 AMPs have been reported with different activities against
                         different bacterial species including resistant phenotype bacteria. AMPs
                         display remarkable structural and functional diversity that is not
                         completely understood. As such, this book presents a comprehensive
                         overview of AMPs and their mechanism of action against MDR bacteria.