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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Antimicrobial peptides in cutaneous wound healing -- Antimicrobial peptides as endogenous antibacterials and antivirals at the ocular surface -- Function of antimicrobial peptides in lung innate immunity -- Role of antimicrobial peptides to prevent infections in the kidney and urinary tract -- Antimicrobial peptides in the gut -- Metal sequestration: An important contribution of antimicrobial peptides to nutritional immunity -- Regulation of antimicrobial peptide gene expression by vitamin D -- Dichotomous roles of cationic polypeptides targeting HIV -- Antimicrobial peptides in host-defense: functions beyond antimicrobial activity.
Sommario/riassunto	This book focuses on the importance of human antimicrobial peptides (AMP) in keeping the host healthy and preventing infectious diseases. The first chapters deal with several examples of the role of AMP in different epithelial organs (skin and wound healing, eye, lung, genito-urinary tract, gut), which are exposed to different kinds of infectious microorganisms and as a result produce different patterns of AMP. Examples of the dysregulation of AMP expression and function promoting infections are discussed. The capacity of AMP to restrict the availability of essential metals to bacteria as an efficient antibacterial strategy in nutritional immunity is discussed in the next chapter. Our current understanding of how vitamin D, the sunshine vitamin,

influences AMP-expression and how this can affect our health is also addressed. Last but not least, the role of AMP in HIV infection and the immunomodulatory properties of AMP highlight the diverse facets of AMP in host immunity. AMP's specific functions, including in fighting multi-resistant bacteria, suggest that they may offer therapeutic benefits – a question that is discussed in the final chapter.
