

BACTERIAL SECRETED PROTEINS

Secretary Mechanisms and Role in Pathogenesis

Edited by: **Karl Wooldridge** (*University of Nottingham, UK*)

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Secreted proteins are particularly important in bacterial pathogenesis. These proteins have a range of biological functions ranging from host cell toxicity to more subtle alterations of the host cell for the benefit of the invader. The importance of protein secretion to bacterial pathogens is exemplified by the array of mechanisms that have evolved for this purpose.

This extensive publication on bacterial secreted proteins, the secretory systems of bacteria and the vital role of secreted proteins in bacterial pathogenesis will be of immense value to all microbiologists, molecular biologists, public health scientists and researchers engaged in the study of pathogenesis, drug design and vaccine development. A skillful selection of topics and a panel of acknowledged experts as authors have ensured that this volume will become an important reference source for many years to come.

The book is divided into two sections. The first section describes the various protein secretion systems including mechanisms for secretion across the cytoplasmic membrane of Gram-negative and Gram-positive bacteria, specialized mechanisms for secretion across the Gram-negative outer membrane, systems for transport across both membranes of Gram-negative bacteria, protein secretion systems in Gram-positive bacteria, the secretion of surface fimbriae/pili and a chapter on the less well defined pathways. Section 2 describes the protein secretion mechanisms and secreted proteins of a number of important human, veterinary and plant pathogens and their role in the pathogenicity of these organisms. The pathogens covered have been selected on the basis that there is active research on protein secretion by these pathogens and they employ a diverse array of secreted proteins and protein secretion systems. The book constitutes a broad and in-depth description of the current knowledge of bacterial protein secretion and its role in pathogenesis. A recommended reference volume for all microbiology libraries.

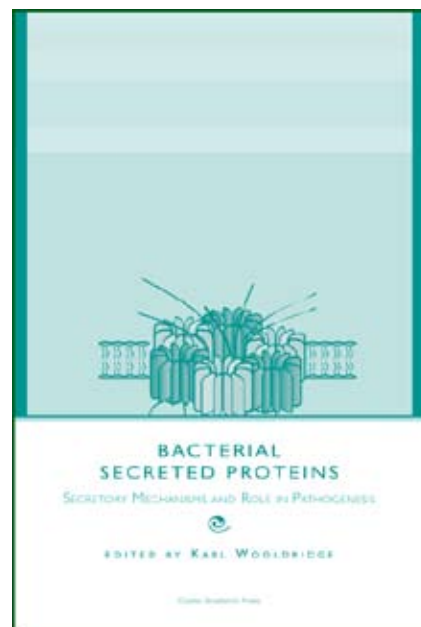


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