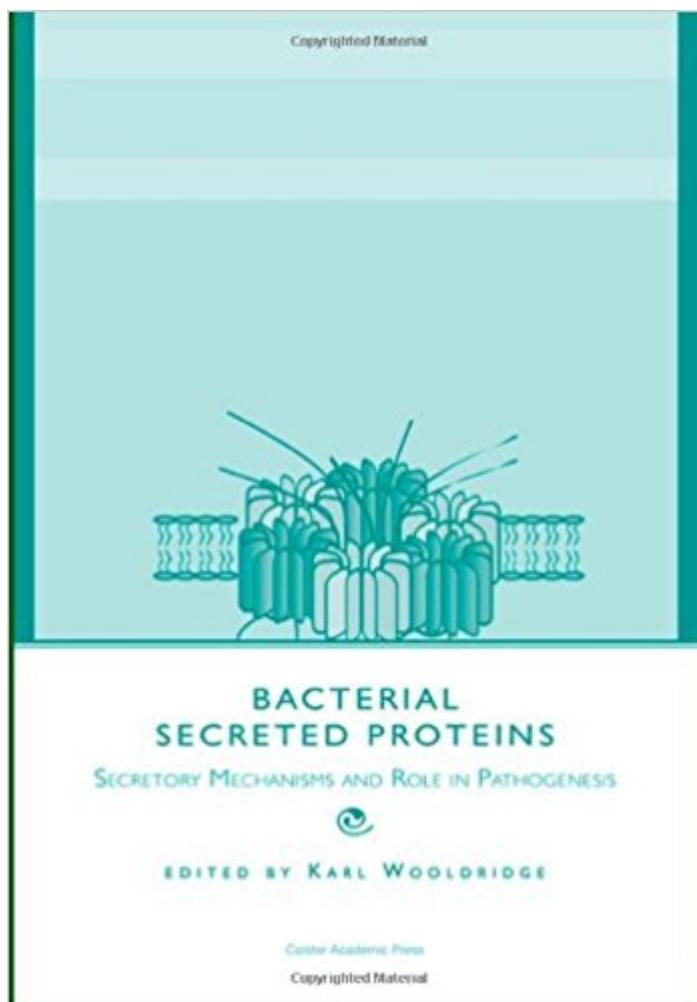


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Bacterial Secreted Proteins: Secretory Mechanisms And Role In Pathogenesis



Synopsis

Secreted proteins are particularly important in bacterial pathogenesis. These proteins have a range of biological functions 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 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, the specialized mechanisms for secretion across the Gram-negative outer membrane, the systems for transport across both membranes of Gram-negative bacteria, the protein secretion systems in Gram-positive bacteria, the secretion of surface fimbriae/pili, and the less well-defined pathways. Section two 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. Each of the book's chapters can be read in isolation. The book constitutes a broad and in-depth description of the current knowledge of bacterial protein secretion and its role in pathogenesis. It is a recommended reference volume for all microbiology libraries.

Book Information

Hardcover: 512 pages

Publisher: Caister Academic Press (March 2, 2009)

Language: English

ISBN-10: 1904455425

ISBN-13: 978-1904455424

Product Dimensions: 7 x 1.2 x 9.9 inches

Shipping Weight: 3 pounds (View shipping rates and policies)

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