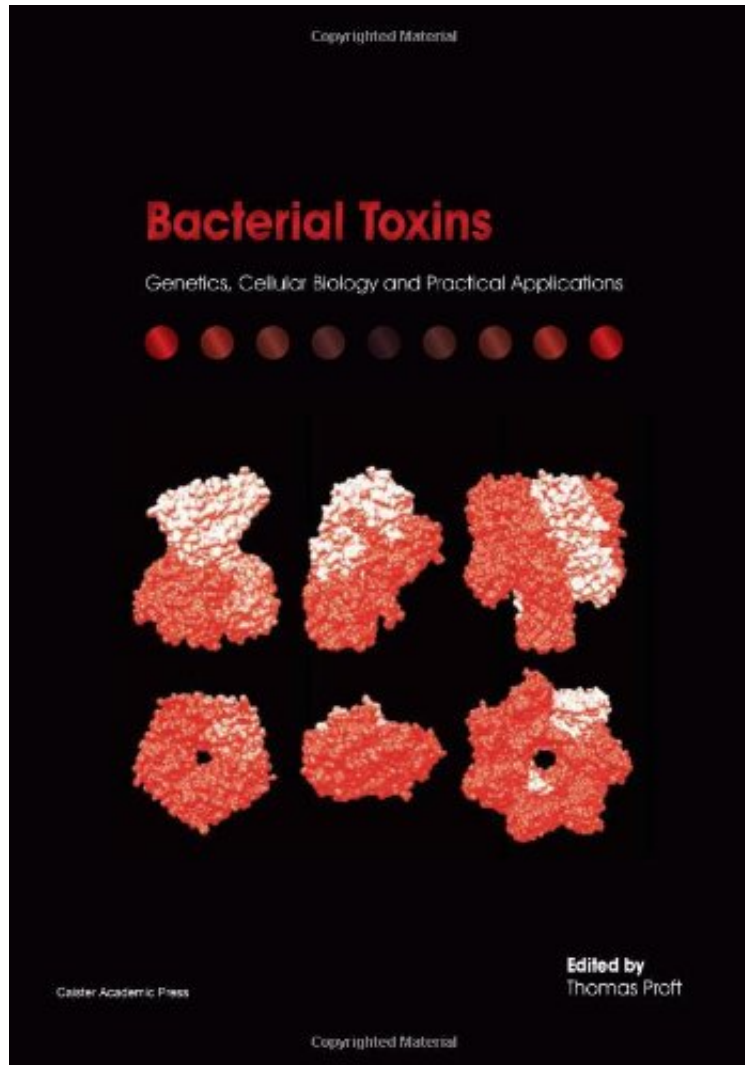


Bacterial Toxins: Genetics, Cellular Biology and Practical Applications

From Brand: Caister Academic Press

**Download PDF | ePub | DOC | audiobook | ebooks*



[Download](#)

[Read Online](#)

#7477421 in Books Caister Academic Press 2013-08-01 Original language: English PDF # 1 10.00 x .70 x 7.00l, 1.60 #File Name: 1908230282242 pages | File size: 20.Mb

From Brand: Caister Academic Press : Bacterial Toxins: Genetics, Cellular Biology and Practical Applications before purchasing it in order to gauge whether or not it would be worth my time, and all praised Bacterial Toxins: Genetics, Cellular Biology and Practical Applications:

Toxins are virulence determinants that play an important role in microbial pathogenicity and/or evasion of the host

immune response. This makes them ideal targets for the development of novel antimicrobial strategies. The potential applications of toxin research extend beyond simply combating microbial pathogens, and include use as novel anti-cancer drugs and other front-line medicines and as tools in neurobiology. In the field of cellular biology, toxins have become invaluable as tools for the manipulation and investigation of fundamental cellular and physiological processes. Research in this area is thriving and is at a very exciting stage. This timely volume serves as an update on the most important recent advances in the genetics, cellular biology, and practical applications of the most important bacterial toxins. Written by internationally respected scientists, the topics reviewed include: the molecular basis and risk factors for verotoxin pathogenesis * molecular mechanisms of *Helicobacter pylori* CagA translocation and function * structure and mechanisms of action of pore-forming toxins * bacterial enterotoxins as immunomodulators and vaccine adjuvants * mobile genetic elements as carriers for bacterial virulence genes * the novel family of staphylococcal superantigen-like toxins (SSLs) * new insights into the use of botulinum neurotoxins as therapeutics * microbial toxins as tools in cell biology * the role of the large clostridial cytotoxins in *C. difficile* disease.