

Title: Mechanisms of Bacterial Pathogenesis [2-1-0-6]

Content :

The power of bacteria, Establishment of infectious diseases, Human microbiome, Biology of infectious agents, Animal and cell culture based models for studying infectious disease, Molecular approaches for identification of bacterial virulence factors, Microbial toxins, Delivery of virulence factors, Virulence regulation, Bacterial strategies for evasion of host defense mechanisms, Host-pathogen interactions, Bioterrorism.

Texts / References:

1. "Bacterial Pathogenesis: A molecular approach" by Brenda A. Wilson, ASM Press, 3rd edition, 2011.
2. "Mechanisms of Microbial Disease" by N. Cary Engleberg, Wolters Kluwer and Lippincott Williams & Wilkins, Fifth edition, 2013.
3. "Bacterial pathogenesis: Molecular and cellular mechanisms" by Camille Locht and Michel Simonet, Caister Academic Press, First edition, 2012.