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Descrizione fisica	1 online resource (xxx, 593 pages) : illustrations (some color)
Disciplina	572.86293
Soggetti	Bacterial genomes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Microbial pathogens: an overview / Pascale Cossart, Javier Pizarro-Cerda, and Marc Lecuit -- Bacterial human pathogen genomes: an overview / Stephen Bentley [and others] -- Cell biology: an overview / Dana Philpott and Patrice Boquet -- Extracellular matrix and host cell surfaces: potential sites of pathogen interaction / Klaus T. Preissner and G. Singh Chhatwal -- Bacterial adherence to cell surfaces and extracellular matrix / B. Brent Finlay and Michael Caparon -- Molecular basis for cell adhesion and adhesion-mediated signaling / Benjamin Geiger [and others] -- Bacterial signaling to host cells through adhesion molecules and lipid rafts / Guy Tran Van Nhieu, Philippe, J. Sansonetti, and Frank Lafont -- Host cell membrane structure and dynamics / Lynda M. Pierini and Frederick R. Maxfield -- Membrane traffic in the endocytic pathway of eukaryotic cells / Michela Felberbaum-Corti, Raluca Flukiger-Gagescu, and Jean Gruenberg -- Where to stay inside the cell: a homesteader's guide to intracellular parasitism / David G. Russell -- The actin cytoskeleton: regulation of actin filament assembly and disassembly / Frederick S. Southwick -- Bacterial manipulation of the host cell cytoskeleton / Jennifer R. Robbins [and others] -- Bacterial toxins / Mariagrazia Pizza, Vega Massignani, and Rino Rappuoli -- Bacterial protein toxins and tools in cell biology and pharmacology / Klaus Aktories -- Type III secretion systems in animal- and plant-interacting bacteria / Matthew S. Francis [and others] -- Bacterial type IV secretion systems: DNA conjugation machines adapted for export of virulence factors / Peter J. Christie and Antonello Covacci -- Induction of apoptosis by microbial pathogens /

Jeremy E. Moss, Ilona Idanpaan-Heikkila, and Arturo Zychlinsky -- Interaction of pathogens with the innate and cellular microbiology adaptive immune system / Emil R. Unanue and Ennio De Gregorio -- Electron microscopy / Chantal de Chastellier -- New tools for virulence gene discovery / Timothy K. McDaniel and Raphael H. Valdivia -- Genome-wide approaches to studying prokaryotic biology / Su L. Chiang and Stephen Lory -- Cell biology of virus infection / Mark Marsh -- Use of simple nonvertebrate hosts to model mammalian pathogenesis / Costi D. Sifri and Frederick M. Ausubel.

Sommario/riassunto

"A comprehensive examination of this burgeoning area of important research. Covers bacterial human pathogen genomes, structure and dynamics of the host cell membrane, study of prokaryotic biology using genome-wide approaches, cell biology of virus infection, and use of simple nonvertebrate hosts to model mammalian pathogenesis. Acquaints scientists and graduate-level students with a valuable source of reference in an emerging field. Integrates the two important fields of cell biology and microbiology."
