

1. Record Nr.	UNINA9910829948203321
Titolo	Innate Immune Response to Infection // edited by Stefan H. E. Kaufmann, Ruslan Medzhitov, Siamon Gordon
Pubbl/distr/stampa	Washington, District of Columbia : , : John Wiley & Sons, Inc., , 2014
ISBN	1-68367-207-0
Descrizione fisica	1 online resource (xv, 465 pages) : illustrations
Disciplina	616.079
Soggetti	Natural immunity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Evolutionary emergence and interactions among elements of the innate and combinatorial responses / John J. Marchalonis, G. Kerr Whitfield, and Samuel F. Schluter -- Drosophila responses to microbial infection: an overview / Jules A. Hoffmann and Petros Ligoxygakis -- Neutrophils: the power within / Taco W. Kuijpers and Dirk Roos -- The biology of macrophages / R. Tedjo Sasmono and David A. Hume -- The regulatory role of dendritic cells in the innate immune response / F. Granucci [and others] -- Roles of mast cells and basophils in innate immunity / Stephen J. Galli, Devavani Chatterjea, and Mindy Tsai -- Innate natural killer cell responses to infection / Wayne M. Yokoyama -- Urinary tract infection as a model for innate mucosal immunity / M. Samuelsson [and others]. Paneth cells in innate immunity and intestinal inflammation / Satish Keshav -- Collections and the acute-phase response / Howard Clark [and others] -- Complement and its receptors in infection / Admar Verschoor and Michael C. Carroll -- Coagulation and innate immunity / Charles T. Esmon -- Toll-like receptors: ligands and signaling / Kiyoshi Takeda and Shizuo Akira -- Toll-like receptors and control of adaptive immunity / Gregory M. Barton, Chandrashekhar Pasare, and Ruslan Medzhitov -- Antigen-presenting cell receptors and innate immunity: diversity, recognition, and responses / Siamon Gordon -- The function of leukocyte immunoglobulin-like receptors in self-tolerance, viral recognition, and regulation of adaptive responses / Marco -- Colonna and Winfried Barchet. Antimicrobial peptides: effectors of innate immunity / Michael Zasloff -- Antimicrobial proteins

/ Tomas Ganz and Robert I. Lehrer -- Reactive oxygen and reactive nitrogen metabolites as effector molecules against infectious pathogens / Christian Bogdan -- Chemokines / Bernhard Moser Lipids / K. Frank Austen and Yoshihide Kanaoka -- Role of innate immunity in bacterial infection / Peter Seiler, Ulrich Steinhoff, and Stefan H.E. Kaufmann.

Sommario/riassunto

Delivers a state-of-the-art review of the innate immune system, utilizing the most current concepts of cellular and molecular biology. The book focuses on evolutionary aspects, describing the major cells, humoral factors, receptors, and effector responses central to innate immunity and its important relation to acquired immunity. In-depth treatment is given to the performance of the innate immune system in various situations, including bacterial, viral, fungal, and parasitic infection.
