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Nota di contenuto	Inflammatory response: an overview -- Acute inflammation and chronic inflammation / Peter A. Ward -- Resolution of acute inflammation and wound healing / Derek W. Gilroy -- Links between innate and adaptive immunity / Christopher L. Karp -- Individual Cell Types -- Neutrophils I / Jose U. Scher, Steven B Abramson, and Michael H. Pillinger -- Neutrophils II / Marco A. Cassatella -- Mast cells as sentinels of inflammation / Joshua A. Boyce -- Basophils / Jonathan Arm and David Sloane -- Eosinophils / Sophie Fillon, Steven J. Ackerman, and Glenn T. Furuta -- Macrophages / Sarah Fox and Adriano G. Rossi -- Lymphocytes / Tracy Hussell -- Fibroblasts and stromal cells / Andrew Filer and Christopher D. Buckley -- Neutrophil-endothelial cell interactions / Janos G. Filep and Sean P. Colgan -- Chemical Mediators -- Lipid mediators in acute inflammation and resolution: eicosanoids,

PAF, resolvins and protectins / Charles Serhan and Jesper Z. Haeggstrom -- Cytokines and chemokines / IL-1 family in inflammation Nick Lukacs -- Adenosine receptors: therapeutic aspects for inflammatory and immune diseases / Gyorgy Hasko and Bruce Cronstein -- Leukocyte generation of reactive oxygen species / William Nauseef -- Cell adhesion molecules / Lucy V. Norling [and others] -- Immunopharmacology -- Mediators and mechanisms of inflammatory pain / Tony L. Yaksh.
Non-steroidal anti-inflammatory drugs / Roderick Flower -- Cytokines and chemokines in inflammation cancer / Thorsten Hagemann and Toby Lawrence -- Inflammatory Diseases/Histology -- Lung / Bruce D. Levy -- Neural inflammation, Alzheimers disease and stroke / Andrew P. Lieberman and Constance D'Amato -- Rheumatoid arthritis/SLE / Karim Raza and Caroline Gordon -- Gastrointestinal inflammation and ulceration: mediators of induction and resolution / Linda Vong, Paul L. Beck, and John Wallace -- Inflammatory skin diseases / Gayathri K. Perera and Frank Nestle -- Kidney glomerulonephritis and renal ischemia / Jeremy Duffield and Joel M. Henderson -- Inflammation in cardiovascular diseases / Kenneth K. Wu -- Animal Models of Inflammation -- Models of acute inflammation: air-pouch, peritonitis and ischemia-reperfusion / Andre L.F. Sampaio, Neil Dufton, and Mauro Perretti -- Experimental models of glomerulonephritis / Aidan Ryan, Denise M. Sadlier, and Catherine Godson -- Glomerulonephritis and ischemia reperfusion injury / Jagdeep Obhrai and Jeremy S. Duffield -- Asthma / Bruce D. Levy -- Animal models of rheumatoid arthritis / H.B. Patel [and others] -- Ocular inflammation models / Karsten Gronert -- Atherosclerosis in experimental animal models / Aksam Merched and Lawrence Chan -- Oral inflammation and periodontitis / Alpdogan Kantarci, Hatice Hasturk, and Thomas E. Van Dyke -- Pathogens and inflammation / Fabiana S. Machado and Julio Aliberti.

Sommario/riassunto

The acute inflammatory response is the body's first system of alarm signals that are directed toward containment and elimination of microbial invaders. Uncontrolled inflammation has emerged as a pathophysiologic basis for many widely occurring diseases in the general population that were not initially known to be linked to the inflammatory response, including cardiovascular disease, asthma, arthritis, and cancer. To better manage treatment, diagnosis, and prevention of these wide-ranging diseases, multidisciplinary research efforts are underway in both academic and industry settings. This book provides an introduction to the cell types, chemical mediators, and general mechanisms of the host's first response to invasion. World-class experts from institutions around the world have written chapters for this introductory text. The text is presented as an introductory springboard for graduate students, medical scientists, and researchers from other disciplines wishing to gain an appreciation and working knowledge of current cellular and molecular mechanisms fundamental to inflammation.
