1. Record Nr. UNINA9910420949903321

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Titolo	Damage-associated molecular patterns in human diseases . Volume 2 Danger signals as diagnostics, prognostics, and therapeutic targets / / Walter Gottlieb Land
Pubbl/distr/stampa	Cham, Switzerland : , : Springer, , [2020] ©2020
ISBN	3-030-53868-0
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XXXIX, 629 p. 45 illus. in color.)
Disciplina	617.1
Soggetti	Wounds and injuries - Immunological aspects
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I. Prologue -- Perspectives of the Danger/Injury Model in Immunology -- Part II. A Select, Clinically Oriented Update of Topics Presented in “Damage-Associated Molecular Patterns in Human Diseases”; Volume 1: Injury-Induced Innate Immune Responses -- Pattern Recognition Molecules -- The Growing World of DAMPs -- The Growing Clinical Relevance of Cellular Stress Responses and Regulated Cell Death -- DAMP-Promoted Efferent Innate Immune Responses in Human Diseases: Inflammation -- DAMP-Promoted Efferent Innate Immune Responses in Human Diseases: Fibrosis -- Part III. DAMPs and SAMPs in Traumatic Disorders, Atherosclerosis, and Cerebro-Cardiovascular Diseases -- DAMPs and SAMPs as Molecular Biomarkers, Therapeutic Targets, and Therapeutics -- DAMP-Controlled and Uncontrolled Responses to Trauma: Wound Healing and Polytrauma -- Solid Organ Injury -- Atherosclerosis -- Cerebro - Cardiovascular Diseases -- Part IV. Epilogue -- The “DAMPome” as a Key Player in the Pathogenesis of Human Diseases.
Sommario/riassunto	This book is a continuance of the topic: “DAMPs in Human Diseases”, the basics of which were described in a first volume by the same author. This second volume presents our current understanding of the impact of sterile stress/injury-induced innate immune responses on the etiopathogenesis of human diseases by focusing on those diseases that are pathogenetically dominated by DAMPs, i.e., on polytrauma,

various solid organ injuries (brain, lung, kidney, liver), atherosclerosis, and cerebro-cardiovascular diseases. Our growing understanding of the pathogenetic function of activating DAMPs and suppressive DAMPs (“SAMPs”) is used as a point of departure to explore how these molecules can be used as biomarkers to extend and improve current diagnostic and prognostic modalities. Moreover, this new knowledge about the pathogenetic function of DAMPs and SAMPs is taken as a sound and plausible reason for discussing their implications for present and future treatment of the diseases addressed here. In this context, the focus is on the potential of DAMPs as future therapeutic targets and SAMPs as future therapeutics, applied in strict compliance with safety precautions, as also recommended in this work. The book is intended for professionals from all medical and paramedical disciplines who are interested in applying innovative data from inflammation and immunity research to clinical practice. The readership will include practitioners and clinicians working in the broad field of acute and chronic inflammatory/fibrotic diseases, in particular, traumatologists and intensivists; neurologists and neurosurgeons; cardiologists and cardiac surgeons; pulmonologists and thoracic surgeons; vascular surgeons; nephrologists; gastroenterologists and hepatologists; and pharmacists. Also available: Damage-Associated Molecular Patterns in Human Diseases - Vol. 1: Injury-Induced Innate Immune Responses .