

1. Record Nr.	UNINA9910682583903321
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Titolo	Damage-Associated Molecular Patterns in Human Diseases : Volume 3: Antigen-Related Disorders // by Walter Gottlieb Land
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-031-21776-4
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (708 pages)
Disciplina	616.0792
Soggetti	Internal medicine Immunology Allergy Natural immunity Internal Medicine Allergology Innate Immunity
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Preface -- Foreword -- Acknowledgments -- Abbreviations -- Part I Prologue 1 Perspectives of the Danger/Injury Model of Immunology as Applied to Antigen-Related Human Disorders -- Part II Infections 2 Infectious Agents: From the Red Queen Paradigm to Some of Their Genuine Traits -- 3 Virulence of Pathogens and the Counteracting Responses of the Host -- 4 The DAMP-Driven Host Immune Defense Program Against Pathogens -- 5 The Pathogenetic Role of DAMPs in Severe Infectious Diseases -- Part III Autoimmunity 6 Basic Trajectories in Autoimmunity -- 7 DAMPs in Systemic Autoimmune Diseases -- 8 DAMPs in Organ-Specific Autoimmune Diseases -- Part IV Transplants and Cancer 9 The Undesirable and Desirable Functions of DAMPs in Transplant and Tumor Rejection -- Part V Epilogue 10 Approaching the DAMPome: Evolution in Medicine?
Sommario/riassunto	This book is a continuation of the topic of "DAMPs in Human Diseases", the basics of which were described in a first volume, and details of their role in polytrauma, solid organ injuries, atherosclerosis, and

cerebrocardiovascular diseases in a second volume by the same author. The third volume presents our current understanding of the impact of DAMP-driven innate/adaptive immune responses on the etiopathogenesis of antigen-related disorders, focusing on infectious and autoimmune diseases (highlighting respiratory virus diseases such as COVID-19, bacterial sepsis, and malaria) and autoimmune diseases (emphasizing systemic lupus erythematosus, rheumatoid arthritis, multiple sclerosis, type 1 diabetes), and briefly discussing allograft and tumor rejection. The detailed description and illustration of DAMP-triggered inflammatory pathways in the various chapters explain, for example, why it is the dysregulated emission of DAMPs - and not the virus or the bacterium per se- that is responsible for admitting COVID-19 or sepsis patients to the ICU for intensive care treatment. Also, the chapters on autoimmune diseases explain why, mechanistically, environmental factors make up a significant part of the risk in disease initiation and propagation. Our growing understanding of such deleterious pathogenetic functions of activating DAMPs and suppressing DAMPs (SAMPs) is used as a point of departure to explore how these molecules can be used as valuable diagnostic and prognostic biomarkers as well as future therapeutic targets and therapeutics. The book is written for professionals from all medical and paramedical disciplines who are interested in the introduction of innovative data from modern inflammation and immunity research into clinical practice. In this sense, the book reflects an approach to translational medicine. The readership will include all practitioners and clinicians, in particular, ICU clinicians, infectiologists, microbiologists, virologists, hematologists, rheumatologists, diabetologists, neurologists, transplantologists, oncologists, and pharmacists.
