

1. Record Nr.	UNINA9910298321003321
Titolo	MFG-E8 and Inflammation [[electronic resource] /] / edited by Ping Wang
Pubbl/distr/stampa	Dordrecht : , : Springer Netherlands : , : Imprint : Springer, , 2014
ISBN	94-017-8765-4
Edizione	[1st ed. 2014.]
Descrizione fisica	1 online resource (209 p.)
Disciplina	616.0473 616.97 616.97/8 616.978
Soggetti	Cancer research Immunology Cell biology Pathology Medicine Cancer Research Cell Biology Biomedicine, general
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	""Preface""; ""About the Editor""; ""Contents""; ""Contributors""; ""Chapter 1: MFG-E8: Origin, Structure, Expression, Functions and Regulation""; ""1 Origin, Primary Structure and Molecular Evolution""; ""2 Glycosylation""; ""3 Domain Structure and Molecular Functions""; ""3.1 The EGF-Like Domain with RGD Motif""; ""3.2 The F5/8-type C Domains""; ""3.3 Medin Peptide and Amyloid""; ""3.4 Binding with Extracellular Matrix""; ""3.5 P/T-Rich Domain of Murine MFG-E8""; ""4 Gene Expression""; ""4.1 Expression Profiling by Genomic Studies""; ""4.2 Regulation of Gene Expression"" ""1.2 a€œEat-Mea€? and a€œDona€?t Eat-Mea€? Signals""
Sommario/riassunto	After the discovery of milk fat globule-epidermal growth factor-factor

8 (MFG-E8) about two decades ago, a new era of delineating its potential beneficial role in several inflammatory diseases has begun to spout from the bench to translational research. In MFG-E8 and Inflammation, the editor and contributors have gathered a remarkable collection covering novel discoveries on the rapidly growing field of MFG-E8 and Inflammation which includes not only the findings from their individual laboratories, but also from a host of pioneering researchers of this field. MFG-E8 and Inflammation starts by describing the origin, structure, expression, functions and regulation of MFG-E8, and then continues thoughtfully exploring its potentiality as a marker for apoptotic, stressed and activated cells. The topics cover the cellular and physiological function of MFG-E8, especially its role in efficient phagocytosis of apoptotic cells, intestinal barrier function, blood cell homeostasis and coagulation, and in the maintenance of the intact vascular system. The role of MFG-E8 in macrophages, neutrophils, lymphocytes, dendritic cells, platelets, as well as non-hematopoietic cells is adequately described in the book. The chapters also contain several lucid discussions on the recent discoveries of the roles of MFG-E8 in the autoimmune diseases, sepsis, tissue ischemia-reperfusion, hemorrhage, inflammatory bowel disease, acute lung injury, asthma, lung fibrosis, stroke, prion disease and Alzheimer's disease with the potential focus on elucidating novel mechanistic pathways. MFG-E8 and Inflammation is an indispensable resource for scientists and clinical researchers working on fundamental or applied aspects of MFG-E8 pathobiology. This book explores, dissects and reviews several noteworthy findings and striking future perspectives which not only rewrite the disease pathophysiology, but also update our understanding towards attaining novel therapeutic potentials against various inflammatory diseases.
