1. Record Nr. UNINA9910298283303321

Titolo	The Cardiovascular Adrenergic System / / edited by Anastasios Lymperopoulos
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-13680-1
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (150 p.)
Disciplina	610 612 616.12 616.13
Soggetti	Human physiology Cardiology Angiology Human Physiology
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	Part 1 Introduction/General Perspectives -- Introduction/General Considerations -- Part 2 The Adrenergic System of Individual Cardiovascular Cell Types -- The adrenergic system of the myocardium -- The adrenergic system in vascular endothelial cells -- The adrenergic system in vascular smooth muscle cells -- Part 3 The Adrenergic System in Cardiovascular Physiology & Therapy -- The cardiovascular adrenergic system and physical exercise -- The adrenergic system in cardiovascular metabolism and aging -- The neuroendocrine adrenergic system and cardiovascular function -- The adrenergic system and cardiovascular stem cells.
Sommario/riassunto	An overview of all the available literature on the various aspects of the regulation of the cardiovascular system`s function and physiology by the adrenergic neurohormonal system, i.e. the catecholamines norepinephrine and epinephrine. Although there are several books describing the adrenergic system`s biology, physiology and

pharmacology, and also several excellent books on cardiovascular physiology and pathology, this book focuses exclusively on the interface of these two areas: cardiovascular regulation by the adrenergic system and how it affects cardiovascular diseases and their treatments. Each chapter describes the roles of the adrenergic system first in each cardiovascular cell type (cell type-by-cell type) and then in specific areas of cardiovascular physiology, such as in exercise and in cardiovascular metabolism. Finally, the book concludes with a chapter on the adrenergic system`s role in the currently very “hot” (in terms of scientific investigations) area of cardiovascular stem cell biology. The book covers the adrenergic system—specifically and exclusively in the heart and vessels. It is formatted by cardiovascular cell type-by-cell type manner, rather than in an organ-by-organ or in a disease-by-disease manner, as usually discussed in standard, conventional biomedical textbooks. The book also discusses the adrenergic system in novel, cutting-edge cardiovascular research areas, in which it has not been covered well so far (e.g. stem cells, exercise). These three areas constitute the most important assets of the book, which sets it apart from others in the field.