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| Descrizione fisica      | 1 online resource (459 p.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Altri autori (Persone)  | BaderMichael                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Disciplina              | 616.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Soggetti                | Cardiovascular system - Diseases - Endocrine aspects<br>Hormones                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Note generali           | Description based upon print version of record.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Nota di bibliografia    | Includes bibliographical references and index.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Nota di contenuto       | Cardiovascular Hormone Systems; Contents; Preface; List of Contributors; Part One: Steroid Hormones; 1: Glucocorticoids and Mineralocorticoids; 1.1 Synthesis of the Corticosteroids; 1.2 Regulation of Corticosteroid Synthesis; 1.2.1 Aldosterone; 1.2.2 Glucocorticoids; 1.3 Corticosteroid Receptors and Control of Ligand Access; 1.3.1 Steroid Receptors; 1.3.2 Control of Ligand Access; 1.3.2.1 11BHSD1; 1.3.2.2 11BHSD2; 1.4 Cardiovascular Effects of Aldosterone; 1.4.1 Aldosterone and the Heart; 1.4.2 Vasculature; 1.5 Cardiovascular Effects of Glucocorticoids; 1.5.1 Transgenic Models<br>1.5.2 Lessons from Human Disease<br>1.5.2.1 Cushing's Syndrome; 1.5.2.2 The Metabolic Syndrome and Tissue-Specific Regulation of Glucocorticoids; 1.5.2.3 Glucocorticoid Resistance Syndrome; 1.5.2.4 GR Polymorphisms; 1.5.3 Endothelial Dysfunction, Vascular Tone and Atherosclerosis; References; 2: Sex Steroid Hormones; 2.1 Sex Differences in Cardiovascular Physiology and Disease and Effect of Hormone Therapy; 2.2 Sex Steroids: Estradiol, Estrone, Testosterone and Progesterone; 2.2.1 Synthesis and Endocrine Physiology; 2.2.2 |

Age-Dependent Blood Levels of Sex Hormones in Females and Males  
2.2.3 Levels of Estradiol and Testosterone in Rodents  
2.3 Sex Hormone Receptors: Structure and Function; 2.3.1 Hormone Response Elements; 2.3.2 Molecular Mechanisms of Nuclear Receptor Activation; 2.3.2.1 Ligand-Dependent Transcription; 2.3.2.2 Ligand-Independent Genomic Pathway: Cross-Talk Between SHR s and Other Signal Transduction Pathways; 2.3.2.3 Nongenomic Pathway; 2.3.3 Role of Coregulators in Transcriptional Regulation by SHRs; 2.3.4 Role of Proteasomal Degradation Pathway in SHR-Mediated Gene Transcription; 2.3.5 Receptor Activity and Availability in the Cardiovascular System  
2.3.6 Localization of SHRs in the Heart and Vessels of Rodent and Men  
2.4 Receptor-Independent Effects of Sex Steroids; 2.5 Sex Hormone Effects on Cardiovascular Cells and Organs; 2.5.1 Sex Hormone Effects on Different Cardiovascular Cell Types; 2.5.1.1 Cardiomyocytes; 2.5.1.2 Fibroblasts; 2.5.1.3 Endothelial Cells; 2.5.1.4 Vascular Smooth Muscle Cells; 2.5.1.5 Platelets; 2.5.2 Sex Hormone Effects on the Heart; 2.5.2.1 Effects of Exercise; 2.5.2.2 Pressure Overload; 2.5.2.3 Hypertension; 2.5.2.4 Volume Overload; 2.5.2.5 Myocardial Infarction  
2.5.3 Sex Hormone Effects on Atherosclerosis, Plaque Formation and Rupture  
2.5.4 Sex Hormone Effects on Systemic and Circulating Mediators of the Cardiovascular System; 2.5.4.1 Lipid Levels; 2.5.4.2 Glucose and Insulin; 2.5.4.3 Blood Pressure; 2.5.4.4 Coagulatory Activity; References; Part Two: Peptide Hormones; 3: Angiotensins; 3.1 Introduction; 3.2 RAS: The Classical and Updated View; 3.3 New Aspects of Classical RAS Enzymes; 3.3.1 Renin/Prorenin Receptor; 3.3.2 Signaling Through ACE; 3.4 Ang II; 3.4.1 Ang II and the Cardiovascular System; 3.4.2 Ang II and the Endocrine System  
3.4.3 Ang II and the Renal System

#### Sommario/riassunto

Edited by a renowned scientist in the field with more than 200 high profile scientific publications to his name, this is the first book to provide a comprehensive overview of all cardiovascular hormone systems. Clearly structured, the text covers steroid and peptide hormones, amines, and arachidonic acid metabolites, as well as such others as nucleotides, nitric oxide, and acetylcholine. An essential reference for researchers working on the cardiovascular system and related diseases.