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| Nota di contenuto | Front Cover; Primer on the Autonomic Nervous System; Copyright Page; Contents; List of Contributors; Preface; PART I: ANATOMY; Chapter 1. Development of the Autonomic Nervous System; Pathways and Fate of Neural Crest Cells; Factors Operating during Neural Crest Migration; Neurite Outgrowth and Target Contact; Factors Involved in Neurite Outgrowth and Neuronal Survival; Synapse Formation and Neuronal Differentiation; Conclusions; Chapter 2. Mechanisms of Differentiation of Autonomic Neurons; The Autonomic Nervous System Is Derived from Neural Crest Cells Signaling Molecules Regulate the Developmental Processes of the Autonomic Nervous SystemTranscriptional Code Underlying the Development and Phenotypic Specification of the Autonomic Nervous System; Neurotransmitter Phenotypes of the Autonomic Nervous System; Noradrenaline Phenotype; Control Mechanism of DBH Gene Expression Is Closely Related to Autonomic Nervous System Development; Cholinergic Phenotype and the Switch of Neurotransmitter Phenotypes by the Target Cell Interactions; Chapter 3. Milestones in Autonomic Research; Receptors; Varicosities; PART II: PHARMACOLOGY |

Chapter 4. Central Autonomic Control Anatomy of Central Autonomic Areas; Levels of Integration of Central Autonomic Control; Chapter 5. Peripheral Autonomic Nervous System; Sympathetic Nervous System; Sympathoadrenal Axis and the Adrenal Gland; Parasympathetic Nervous System; The Concept of Plurichemical Transmission and Chemical Coding; Functional Neuroanatomy and Biochemical Pharmacology; Chapter 6. The Autonomic Neuroeffector Junction; Structure of the Autonomic Neuromuscular Junction; Autonomic Neurotransmission; Model of Autonomic Neuroeffector Junction Chapter 7. Autonomic Neuromuscular Transmission New Transmitters and the Concept of Cotransmitters; Varicosities, Vesicle-Associated Proteins, and Calcium Fluxes; Ionotropic Receptors Are Localized to the Muscle Membrane at Varicosities; Metabotropic and Ionotropic Receptors Are Internalized and Recycled after Binding Transmitter; Sources of Intracellular Calcium in Smooth Muscle for Initiating Contraction; Modulation of Calcium Influx and the Control of Hypertension; Chapter 8. Dopaminergic Neurotransmission; Transmitter Neurochemistry; Future Questions; Chapter 9. Dopamine Receptors Structural and Functional Characteristics of Dopamine Receptors Signal Transduction; Pharmacology; Distribution; Distribution in the Brain; Dopamine Receptors in the Periphery; Regulation; Chapter 10. Noradrenergic Neurotransmission; Noradrenergic Innervation of the Cardiovascular System; Norepinephrine: The Sympathetic Neurotransmitter; Storage; Release; Disposition; Chapter 11. α_1 -Adrenergic Receptors; Subtypes; Structure and Signaling; Ligand Binding and Activation; Regulation; Vascular Subtypes; Chapter 12. α_2 -Adrenergic Receptors; Chapter 13. β -Adrenergic Receptors Signaling of β -AR Subtypes

Sommario/riassunto

The Primer on the Autonomic Nervous System presents, in a readable and accessible format, key information about how the autonomic nervous system controls the body, particularly in response to stress. It represents the largest collection of world-wide autonomic nervous system authorities ever assembled in one book. It is especially suitable for students, scientists and physicians seeking key information about all aspects of autonomic physiology and pathology in one convenient source. Providing up-to-date knowledge about basic and clinical autonomic neuroscience in a format designed to
