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Nota di contenuto	Front Cover; The Rat Nervous System; Copyright Page; Contents; Contributors; Foreword; Section I: Development; Chapter 1. Gene Maps and Related Histogenetic Domains in the Forebrain and Midbrain; Molecular versus Anatomical Distinction of Brain Subdivisions: The Specification State; Sharing of Molecularly distinct Brain Domains Among Vertebrates; Differential Aspects of Histogenesis; The Bauplan of the Brain; The Neural Plate Subdivisions; The Closed Neural Tube; Basal Plate Regions; Alar Plate Regions; Telencephalic Patterns; About Mechanisms; Relevant Genetic Mechanisms Chapter 2. Development of the Telencephalon: Neural Stem Cells, Neurogenesis, and Neuronal MigrationNeurogenetic Timetables in the Telencephalon; Maps of Stem Cell Mosaics in the Telencephalic Neuroepithelium; Development of the Lateral, Rostral, and Dentate Migratory Streams; Stem Cell Dynamics in Cortical Germinal Zones; Section II: Peripheral Nervous System and Spinal Cord; Chapter 3. Autonomic Nervous System; Localization of Autonomic Ganglia; Structure of Autonomic Ganglia and Nerves; Chapter 4. Primary Afferent Projections to the Spinal Cord

Projection of Primary Afferent Fibers to Different Laminae and Some Spinal Cord Nuclei
Somatotopic Organization of Primary Afferent Projections; Chapter 5. Spinal Cord Cytoarchitecture; Lamina I; Lamina II; Lamina III; Lamina IV; Lamina V; Lamina VI; Lamina VII; Lamina VIII; Lamina IX; Area X; Lateral Spinal Nucleus; Lateral Cervical Nucleus; Chapter 6. Substantia Gelatinosa of the Spinal Cord; Definition; Characteristics of Neurons of the Superficial Laminae of the Spinal Cord; Ultrastructure of the Spinal Dorsal Horn; Neurochemistry of the Dorsal Horn; Final Remarks
Chapter 7. Ascending and Descending Pathways in the Spinal Cord
Ascending Pathways; Descending Pathways; Section III: Brainstem and Cerebellum; Chapter 8. Precerebellar Nuclei and Red Nucleus; Pontine Nuclei; Lateral Reticular Nucleus; Inferior Olivary Nucleus; Red Nucleus; Chapter 9. Cerebellum; The Gross Anatomy of the Cerebellum; The Cerebellar Nuclei and Their Efferent Pathways; Longitudinal, Zonal Organization of Purkinje Cells in the Cerebellar Cortex: Chemoarchitecture and Connections; Afferent Mossy Fiber Systems
Terminations of Mossy Fiber Systems in Different Regions of the Cerebellum
Chapter 10. Periaqueductal Gray; PAG Columnar Organization; Anatomical Studies; The PAG and Parallel Circuits for Emotional Coping; Conclusions; Chapter 11. Locus Coeruleus, A5 and A7 Noradrenergic Cell Groups; Cytoarchitecture; Afferents to the Nucleus Locus Coeruleus; The Pericoerulear Region: The "Extranuclear LC"; Efferent Projections of LC Neurons; Other Metencephalic Noradrenergic Neurons (A5 and A7 Cell Groups); Conclusions; Chapter 12. Oromotor Nuclei; Motor Trigeminal Nucleus; Facial Nucleus
Hypoglossal Nucleus

Sommario/riassunto

This third edition of the standard reference on the nervous system of the rat is a complete and updated revision of the 1994 second edition. All chapters have been extensively updated, and new chapters added covering early segmentation, growth factors, and glia. The book is now aligned with the data available in the Rat Brain in Stereotaxic Coordinates, making it an excellent companion to this bestselling atlas. Physiological data, functional concepts, and correlates to human anatomy and function round out the new edition. *Designed to be used in conjunction with the bestselling
