

Neuroanatomy For The Neuroscientist

[DOWNLOAD HERE](#)

1;Preface;6 2;Contents;9 3;List of Figures;19 4;List of Tables;41 5;Part I Introduction to the Central Nervous System;44 5.1;Introduction to the Central Nervous System;45 5.1.1;I. The Neuron;45 5.1.2;II. The Nervous System;49 5.1.3;III. Central Nervous System (Fig. 1.3);49 5.1.4;IV. Glands Associated with the Brain;64 5.2;Neurocytology: Cells of the CNS;65 5.2.1;I. The Neuron;65 5.2.2;II. Synapse;77 5.2.3;III. Supporting Cells of the Central Nervous System;82 5.2.4;IV. Supporting Cells in the Peripheral Nervous System;88 5.2.5;V. Response of Nervous System to Injury;89 5.2.6;VI. Blood-Brain Barrier;94 5.3;Spinal Cord;97 5.3.1;I. Anatomy of the Spinal Cord;97 5.3.2;II. Nociception and Pain;112 5.3.3;III. Upper and Lower Motor Neuron Lesions;119 5.3.4;IV. Other Spinal Pathways;125 5.4;Brain Stem;126 5.4.1;I. Gross Anatomical Divisions;126 5.4.2;II. Functional Localization in Coronal Sections of the Brain Stem;128 5.4.3;III. Differences between the Spinal Cord and Brain Stem;130 5.4.4;IV. Functional Centers in the Brain Stem;151 5.4.5;V. Guidelines for Localizing Disease to and within the Brain Stem;159 5.4.6;Case History 4.1: Lateral (Dorsolateral) Medullary Syndrome (Wallenberg's Syndrome);160 5.4.7;Comments;161 5.5;The Cranial Nerves;162 5.5.1;I. How the Cranial Nerves Got Their Numbers;162 5.5.2;II. Functional Organization of Cranial Nerves (Table 5.1);163 5.5.3;III. Embryological Considerations;165 5.5.4;IV. The Individual Cranial Nerves;167 5.5.5;V. Cranial Nerve Dysfunction;182 5.5.6;VI. Cranial Nerve Case Histories;185 5.6;Diencephalon;187 5.6.1;I. Nuclei of the Thalamus;188 5.6.2;II. Functional Organization of Thalamic Nuclei (Table 6.1);189 5.6.3;III. White Matter of the Diencephalon (Table 6.3);198 5.6.4;IV. Relationship between the Thalamus and the Cerebral Cortex (Fig. 6.8);200 5.6.5;V. Subthalamus (Fig. 6.3A);203 5.7;Hypothalamus, Neuroendocrine System, and Autonomic Nervous System;205 5.7.1;I. Hypothalamus;205 5.7.2;II. Neuroendocrine System: The Hypothalamus and Its Relation to Hypophysis (Table 7.1);211 5.7.3;III. Autonomic Nervous System (Fig. 7.14);223 5.8;Cerebral Cortex Functional Localization;228 5.8.1;I. Anatomical Considerations;228 5.8.2;II. Methods for Study of Functional Localization;246 5.8.3;III. Subcortical White Matter Afferents and Efferents;250 5.8.4;IV. Development of the Cerebral Cortex;255 6;Part II The Systems within the Central Nervous System;257 6.1;Motor System I: Movement and Motor Pathways;258 6.1.1;I. Cerebral Cortical

Motor Functions;258 6.1.2;II. Postnatal Development of Motor Reflexes;266 6.1.3;III. Relationship of Primary Motor, Premotor and Prefrontal Cortex;266 6.1.4;IV. Disorders of Motor Development;277 6.1.5;V. Studies of Recovery of Motor Function in the Human;277 6.1.6;VI. Cortical Control of Eye Movements;278 6.1.7;VII. Major Voluntary Motor Pathways;281 6.2;Motor System II: Basal Ganglia;286 6.2.1;I. Anatomy;286 6.2.2;II. Clinical Symptoms and Signs of Dysfunction;292 6.3;Motor Systems III: Cerebellum and Movement;309 6.3.1;I. Anatomy;309 6.3.2;II. Functions of the Cerebellum Topographic Patterns of Representation in Cerebellar Cortex;313 6.3.3;III. Effects of Disease on the Cerebellum;314 6.4;Somatosensory Function and the Parietal Lobe;329 6.4.1;I. Postcentral Gyrus: Somatic Sensory Cortex [Primary Sensory S- I];329 6.4.2;II. Superior and Inferior Parietal Lobules;336 6.4.3;III. Parietal Lobe and Tactile Sensation from the Body;342 6.5;Visual System and Occipital Lobe;347 6.5.1;I. Structure of the Eye;347 6.5.2;II. Visual Pathway (Fig. 13.3);353 6.5.3;III. Occipital Lobe;356 6.5.4;IV. Visual Field Deficits Produced by Lesions in the Optic Pathway;363 6.6;Limbic System, the Temporal Lobe, and Prefrontal Cortex;373 6.6.1;I. Limbic System;373 6.6.2;II. Principal Pathways of the Limbic System;386 6.6.3;III. Temporal Lobe;389 6.6.4;IV. Role of the Limbic System in Memory;395 6.6.5;V. Prefrontal EAN/ISBN : 9780387709710 Publisher(s): Springer, Berlin, Springer US Discussed keywords: Neuroanatomie, Neurowissenschaft Format: ePUB/PDF Author(s): Jacobson, Stanley - Marcus, Elliott M.

[DOWNLOAD HERE](#)

Similar manuals:

[Sind Bewusstseinszustände Gehirnzustände - Das Bewusstsein In Der Neurowissenschaft Und In Der Philosophie: Das Bewusstsein In Der Neurowissenschaft U - Franziska Nack](#)

[Erkenntnisse Der Neurowissenschaft Zum Thema 'Lernen' - Christoph Egen](#)

[Motorisches Lernen Aus Neurowissenschaftlicher Perspektive - Manuel Holler](#)