Primer on Cerebrovascular Diseases

Description: Primer on Cerebrovascular Diseases is a handy reference source for scientists, students, and physicians needing reliable, up-to-date information on basic mechanisms, physiology, pathophysiology, and medical issues related to brain vasculature. The book consists of short, specific chapters written by international experts on cerebral vasculature, and presents the information in a comprehensive and easily accessible manner. The book also contains valuable information on practical applications of basic research.

Key Features:
- Presents topics in a comprehensive and accessible format
- Written by international authorities on cerebral vasculature
- Provides practical applications for researchers

Contents:
- Cerebral Blood Flow, Don Reis.
- L. Sokoloff, Anatomy: Arterial Innervation, Cerebral Veins, and Microcirculation.
- G.J. del Zoppo, Embryogenesis and Angiogenesis.
- G. Feuerstein and A. Miller, Vasoactive Mediators of Cerebral Vessels.
- P.A. Stewart, Glial-Vascular Relations.
- W. Pardridge, Transport Mechanism.
- S.I. Rapoport, Brain Edema and the Blood-Brain Barrier.
- P.D. Hurm and R. Traystman, Overview of Cerebrovascular Hemodynamics.
- A.G. Hudetz, Cerebral Microcirculation.
- D. Traystman, Regulation of CBF by Carbon Dioxide.
- E. Golanov and D. Reis, Regulation of CBF by Hypoxia.
- P.J. Goadsby and L. Edvinsson, Extrinsic Innervation: Transmitters, Receptors and Functions--the Trigeminovascular System.
- P. Magistretti, Coupling of Cerebral Blood Flow and Metabolism.
- U. Dinrajl and J. Dreier, Regulation of CBF by Ions21.
- D.G. Linvile and E. Hamel, Acetylcholine and Its Receptors.
- P.M. Lacombe and E. MacKenzie, Catecholamines and Their Receptors.
- J. McCulloch, Neuropeptide Transmitters and Their Receptors.
- D.W. Busija, Eicosanoids and Cerebrovascular Control.
- T. Dalkara and M.A. Moskowitz, The Role of Nitric Oxide in Cerebral Ischemia Pathogenesis and Pathology, Bo Siesjo.
- W. Pulsinelli, Selective Neuronal Vulnerability and Infarction in Cerebrovascular Disease.
- J.H. Garcia, Evolution of Brain Lesion Induced by Experimental Focal Ischemia.
- A. Tamura and H. Nakayama, Neuronal Damage in Remote Areas After Focal Cerebral Infarct.
- C.D. Lacola and R.P. Kraig, Astrocyte Reaction to Global Ischemic Brain Injury.
- D. Guilian, Microglia and Inflammatory Responses.
- M.D. Ginsberg, Animal Models of Global and Focal Cerebral Ischemia.
- P.H. Chan, Transgenic Mice.
- C. Whalested, Gene Knock-Out Techniques.
- U. Dimagi, Measurements of Microcirculatory Events in the Brain in Vivo.
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Y. Cao, Functional Magnetics Resonance Imaging in Stroke.
P.B. Barker, Metabolism: Magnetic Resonance Spectroscopy and Spectroscopic Imaging.
C. Webb, Cardiac Electrophysiology in Stroke Investigation.
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F.W. Whitehouse, Management of Diabetes in Stroke.
S.M. Oppenheimer, Management of Cardiac/ECG Complications of Stroke.
M. De Marinis, Management of Dysautonomia/Hypotension.
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B. Smith, Management of Seizures in Acute Stroke.
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D.G. Sherman and D. Lalonde, Anticoagulants in Stroke.
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D. Chiu and J.C. Grotta, Current Clinical Status of Cytoprotection.
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J.L. Poole, Rehabilitation: Occupational Therapy for Stroke.
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H. Mansbach, Stroke Units.
D. Barbut and L.R. Caplan, Cerebrovascular Complications of Cardiac Surgery.
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