



Brain Energetics and Neuronal Activity: Applications to fMRI and Medicine

By -

Wiley, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Contributors. Foreword. Section A: Background. 1. Introduction (Douglas L. Rothman and Robert G. Shulman). 2. Energy Metabolism in Neural Tissues in vivo at Rest and in Functionally Altered States (Louis Sokoloff). 3. Techniques-MRS, fMRI, ^{13}C NMR, Indirect Detection of ^{13}C (Robin de Graaf). 4. Metabolic Modeling Analysis of Brain Metabolism (Graeme Mason). Section B: Neuroenergetics and Activity. 5. Cerebral Energetics and Neurotransmitter Fluxes (Nicola R. Sibson). 6. NMR Studies of the Metabolism and Energetics of GABA Neurotransmitter Pathways (Kevin L. Behar and Douglas L. Rothman). 7. Neural Energy Consumption and the Representation of Mental Events (Simon B. Laughlin and David Attwell). 8. Imaging Cerebral Metabolic Rate of Oxygen Consumption (CMRO₂) using ^{17}O NMR Approach at Ultrahigh Field (Wei Chen, Xiao-Hong Zhu and Kamil Ugurbil). 9. Deriving Changes in CMRO₂ from Calibrated fMRI (Fahmeed Hyder). 10. Relationship between CMRO₂ and Neuronal Activity (Fahmeed Hyder and Hal Blumenfeld). Section C: Clinical Beginnings. 11. NMR Studies of Bioenergetic Impairment in Human Epilepsy (Hoby P. Hetherington, Jullie W. Pan and Dennis D. Spencer). 12. MRS Studies of the Role of Altered Glutamate and GABA Neurotransmitter Metabolism in the...



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