

Principles Of Neurobiology

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principles of neurobiology second edition presents the major concepts of neuroscience with an emphasis on how we know what we know the text is organized around a series of key experiments to illustrate how scientific progress is made and helps upper level undergraduate and graduate students discover the relevant primary literature written by a single author in a clear and consistent writing style each topic builds in complexity from electrophysiology to molecular genetics to systems level in a highly integrative approach students can fully engage with the content via thematically linked chapters and will be able to read the book in its entirety in a semester long course principles of neurobiology is accompanied by a rich package of online student and instructor resources including animations figures in powerpoint and a question bank for adopting instructors

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this book summarizes 20 years of work on the kinetics of blood brain transfer and metabolism mechanisms in mammalian brain the substances affiliated with these mechanisms include glucose amino acids monocarboxylic acids and oxygen these substances are important to energy metabolism and neurotransmission in the mammalian brain at rest and during activation to understand the processes addressed by these mechanisms the book examines the kinetics of compartmentation and compartmental analysis particularly as they relate to transporter enzyme and receptor function compartments are subsets of substances separated by transporters and receptors in membranes and enzymes in cells this book is divided in six major chapters covering compartmental analysis kinetic analysis of transport and metabolism blood brain transfer and metabolism of glucose amino acids and oxygen and amino acid metabolism and interaction of amino acid metabolites with receptors

neurobiology of learning and memory provides an excellent overview of current information on this fast growing field of neurobiology the contents have been structured for use as a course text or as a handy resource for researchers in neuro and cognitive psychology it discusses learning and memory from developmental pharmacological and psychobiological

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