



Immediate Early Genes and Inducible Transcription Factors in Mapping of the Central Nervous System Function and Dysfunction (Hardback)

By Department of Pharmacology Harold A Robertson

ELSEVIER SCIENCE TECHNOLOGY, United Kingdom, 2002. Hardback. Book Condition: New. 264 x 188 mm. Language: English . Brand New Book. That molecular neurobiology has become a dominant part of neuroscience research can be credited to the discovery of inducible gene expression in the brain and spinal cord. This volume deals with genes, whose expression patterns in the vertebrate central nervous system were the first to be revealed and then the most extensively investigated over the last 15 years. Immediate early genes (IEG) and their protein products, especially those acting as regulators of transcription (inducible transcription factors, ITF) have proven to be very valuable tools in functional neuroanatomy and neurophysiology, as they are rapidly and transiently induced in specific neurons in response to various modes of stimulation. Thus, they have been used to map neuronal populations selectively responsive to a variety of conditions, such as sensory and learning experience, electrical stimulation of specific circuits, seizures, and neurodegeneration. This single volume, written by the most prominent authors in the field, brings together for the first time information about the most widely studied IEG/ITF in a whole variety of phenomena of neuronal activation. It starts with a critical appraisal of the technologies employed...



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