



In VIVO Perfusion and Release of Neuroactive substances: Methods and Strategies

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In Vivo Perfusion and Release of Neuroactive Substances: Methods and Strategies examines the perfusion and release methods and strategies used to study in vivo neurochemistry in relation to electrophysiological and behavioral events. More specifically, it reviews methodological alternatives and experimental strategies for investigating the in vivo perfusion and release of brain substances in the central nervous system. It also assesses the potential and limitations of in vivo perfusion methods, including high-pressure liquid chromatography and highly sensitive as well as specific immunoassays and receptor assays, as a means to discover novel neurochemicals recovered from perfusates.

Organized into two sections comprised of 17 chapters, this book begins with an overview of methodological alternatives and experimental strategies that are deemed critical for the outcome of research on the perfusion and release of neuroactive substances in the CNS. It then discusses the personal experiences of the scientists in studying the in vivo neurochemistry and its correlation with other neural events. The chapters that follow focus on the chemical, bioelectrical, and behavioral aspects of brain function; interdisciplinary techniques for approaching problems of neuronal connectivity, neuroendocrinology, motor behavior, neuropathology, etc.; technical issues associated with push-pull perfusion in unanesthetized and unrestrained experimental animals; hippocampal involvement in the effects of ethyl alcohol; and the use of the push-pull perfusion technique in neuroendocrinology.

This book will be of interest to specialists and neuroscientists as well as students working in the fields of neuroscience, neurochemistry, and neuroendocrinology.

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