



Handbook of Microdialysis: Methods, Applications and Perspectives (Handbook of Behavioral Neuroscience)

Ben Westerink

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Microdialysis is currently one of the most important in vivo sampling methods in physiology and pharmacology. It is used to determine the chemical components of the fluid in the extracellular space of tissues. The technique is now well established in neuroscience research and is used excessively in behavioral neuroscience to determine the concentrations and identities of molecules in brain tissues, and their change due to behavior, hormonal and transmitter changes in the nervous system. The book provides a detailed comprehensive overview of the technology and its applications, including application in pathology, drug development, and the application in the clinic. The authors are all well known researchers in Neuroscience and experts in the use of Microdialysis.

Organized into two parts of seven sections, the **Handbook of Microdialysis** critically examines recent developments in the field through a variety of chapters written by an internationally acclaimed group of authors. It is the first comprehensive handbook covering the technology of Microdialysis and its applications in Neuroscience.

- * Presents microdialysis methods and interpretation including the technical aspects of microdialysis as a sampling technique followed by the analytical chemical methods
- * Discusses the role of microdialysis in pharmacology, drug development and models of CNS pathology
- * Includes clinical applications of microdialysis

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