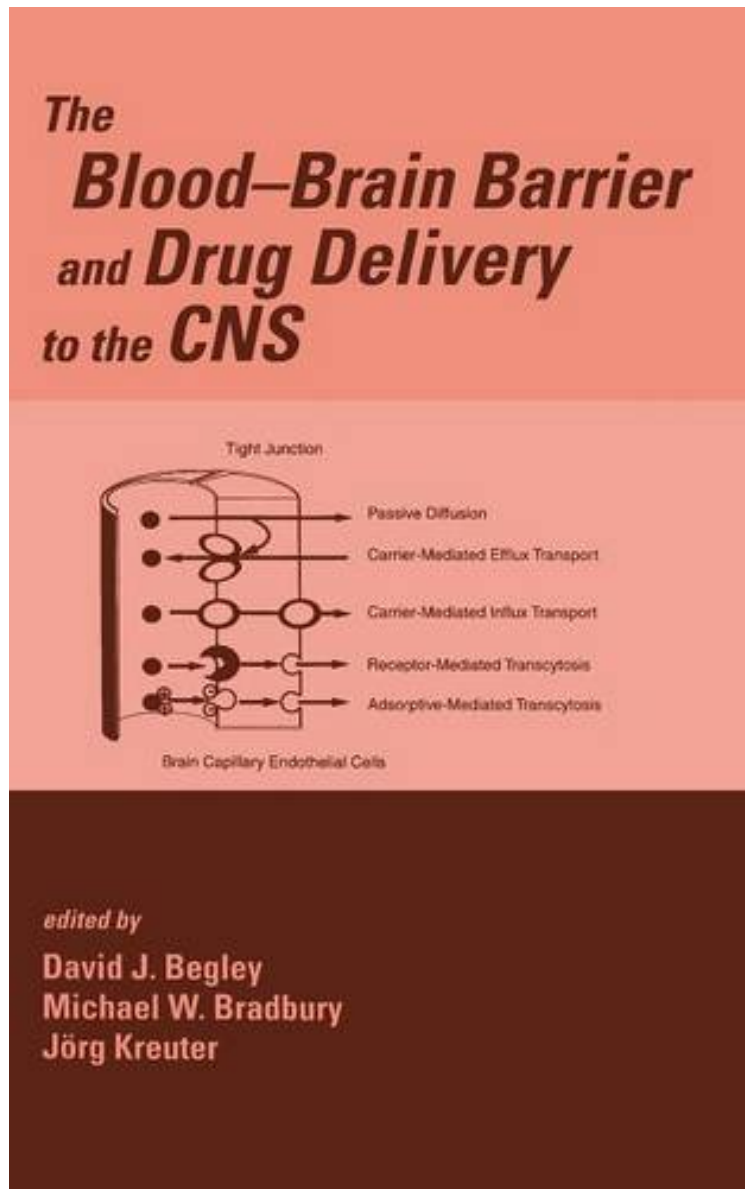


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The Blood-Brain Barrier and Drug Delivery to the CNS

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This timely and compact monograph addresses how to determine drug permeability across the blood-brain barrier more effectively. Focusing on the physiological mechanisms that influence the passage of agents into the brain, the book covers the latest research on the blood-brain barrier, the current problems of and solutions to drug delivery to the central nervous system (CNS), existing strategies, and prospects for future research. Avoid excessive in vivo experimentation and utilize timesaving in vitro techniques. A concise reference with reviews from nearly 40 international specialists in diverse fields, *The Blood-Brain Barrier and Drug Delivery to the CNS* assesses the properties of the blood-brain barrier to determine and measure drug permeability in animals and humans presents techniques to predict successful drug uptake through in vitro systems or by computation of physicochemical parameters examines the multidrug resistance protein P-glycoprotein as a natural transporter analyzes current drug designs to known requirements for transport looks at drug delivery systems for the brain and much more! Densely packed with over 800 literature references, drawings, photographs, x-rays, tables, and equations, *The Blood-Brain Barrier and Drug Delivery to the CNS* is a vital addition to the bookshelves of biochemists, pharmacists, clinical and research pharmacologists, neuroscientists and neurologists, and graduate and medical school students in these disciplines.

..".a compact monograph that brings readers up to date on the blood-brain barrier and how scientists determine drug/chemical permeability across this functional partition....The contributions are a scholarly insight....provides good current information for scientists exploring the blood-brain barrier or working with chemical transport across its borders. Several exciting areas of research are spotlighted, introducing models to predict drug entry and distribution and using in vitro models of the barrier to predict chemical transport....an invaluable resource. "- *Veterinary Human Toxicology*, 2000