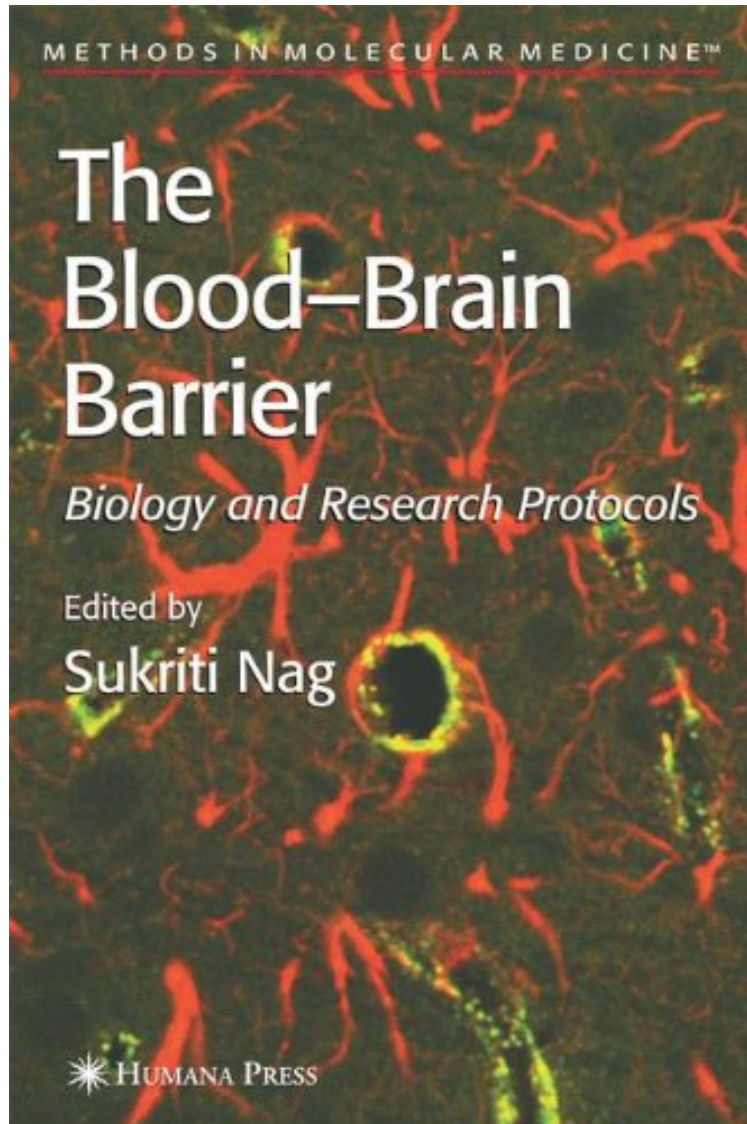


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Blood'Brain Barrier: Biology and Research Protocols (Methods in Molecular Medicine)

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From Brand: Humana Press : Blood'Brain Barrier: Biology and Research Protocols (Methods in Molecular Medicine) before purchasing it in order to gage whether or not it would be worth my time, and all praised Blood'Brain Barrier: Biology and Research Protocols (Methods in Molecular Medicine):

Blood-brain barrier (BBB) breakdown leading to cerebral edema occurs in many brain diseases such as trauma, stroke, inflammation, infection, and tumors and is an important factor in the mortality arising from these conditions. Despite the importance of the BBB in the pathogenesis of these diseases, the molecular mechanisms occurring at the BBB are not completely understood. In the last decade a number of molecules have been identified not only in endothelial cells, but also in astrocytes, pericytes, and the perivascular cells that interact with endothelium to maintain cerebral homeostasis. However, the precise cellular interactions at a molecular level in steady states and diseases have still to be determined. The introduction of new research techniques during the last decade or so provide an opportunity to study the molecular mechanisms occurring at the BBB in diseases. *The Blood-Brain Barrier: Biology and Research Protocols* provides the reader with details of selected morphologic, permeability, transport, in vitro, and molecular techniques for BBB studies, all written by experts in the field. Each part is preceded by a review that emphasizes the advantages and pitfalls of particular techniques, as well as offering much relevant current information. The techniques provided will be helpful to both beginners in BBB research and those more experienced investigators who wish to add a specific technique to those already available in their laboratories.

"An outstanding addition to the field! The book is unique in its organization and ease of reading and use as research resource. In my view, this book will emerge as one of the more cited and critical sources of information for all researchers exploring the nature of the blood-brain barrier." -Doody's Health Science Book Journal

From the Back Cover: Despite the fact that the breakdown of the blood-brain barrier occurs in many brain diseases and is an important factor in mortality, the molecular mechanisms involved in the breakdown are not completely understood. In *The Blood-Brain Barrier: Biology and Research Protocols*, leading researchers and clinician-scientists present state-of-the-art morphologic, permeability, transport, in vitro, and molecular techniques to study the workings of the blood-brain barrier in health and disease. Described in step-by-step detail, each proven method includes an explanation of the theoretical basis of the method, a discussion of its advantages and limitations, notes on avoiding pitfalls, and examples of results obtained using the technique. At the cutting edge are techniques to explore the genomics and proteomics of brain endothelium. Comprehensive and state-of-the-art, *The Blood-Brain Barrier: Biology and Research Protocols* offers pharmacologists, physiologists, neuroscientists, neurosurgeons, and neurologists an array of powerful tools to isolate undiscovered molecules, deepen our understanding of their role in health and disease, and identify targets for future gene therapy and therapeutic intervention.