



## Biology and Regulation of Blood-Tissue Barriers [

Cheng, C. Yan,  
ed. lit

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Medicine Molecular Medicine Biomedicine general

Monografía

This book was written by many outstanding investigators who have spent decades to study different aspects of blood-tissue barrier function. They have summarized some of the latest and fascinating development in their fields of research including the blood-brain barrier, the blood-retinal barrier, the gut barrier, the biliary barrier, the follicle barrier, the epididymis barrier, the testis barrier, the tight junction barrier in general as well as barriers in the female reproductive tract. Included are also chapters that focus on topics that are physiologically applicable to all blood-tissue barriers. Many of these chapters also include information on specific human diseases, such as pathological changes of the gut barrier that cause bowel disorders resulting from inflammation of the epithelial lining in the intestine, and infertility in men as a result of disruption of the epididymal and/or testis barriers; and on new therapeutic approaches (e.g., drug delivery across the blood-brain and the blood-retinal barriers)

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**Contenido:** Regulation of Permeability Across the Blood-Brain Barrier -- Drug Transporters at Brain Barriers: Expression and Regulation by Neurological Disorders -- The Blood-Retina Barrier: Tight Junctions and Barrier Modulation -- The Inner Blood-Retinal Barrier: Molecular Structure and Transport Biology -- Endothelial and Epithelial Barriers in Graft-versus-Host Disease -- Structure and Regulation of Intestinal Epithelial Tight Junctions: Current Concepts and Unanswered Questions -- Polarity Protein Complex Scribble/Lgl/Dlg and Epithelial Cell Barriers -- The Blood-Biliary Barrier, Tight Junctions and Human Liver Diseases -- The

Blood#Follicle Barrier (Bfb) in Disease and in Ovarian Function -- Physiology and Pathophysiology of the Epithelial Barrier of the Female Reproductive Tract: Role of Ion Channels -- The Blood#Epididymis Barrier and Human Male Fertility -- Blood#Tissue Barriers: Morphofunctional and Immunological Aspects of the Blood#Testis and Blood#Epididymal Barriers -- Gap Junctions and Blood#Tissue Barriers -- Transcriptional Regulation of Cell Adhesion at the Blood#Testis Barrier and Spermatogenesis in the Testis -- c#Src and c#Yes are Two Unlikely Partners of Spermatogenesis and Their Roles in Blood#Testis Barrier Dynamics -- Role of P#Glycoprotein at the Blood#Testis Barrier on Adjudin Distribution in the Testis: a Revisit of Recent Data -- The Apical Ectoplasmic Specialization#Blood#Testis Barrier Functional Axis is a Novel Target for Male Contraception

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