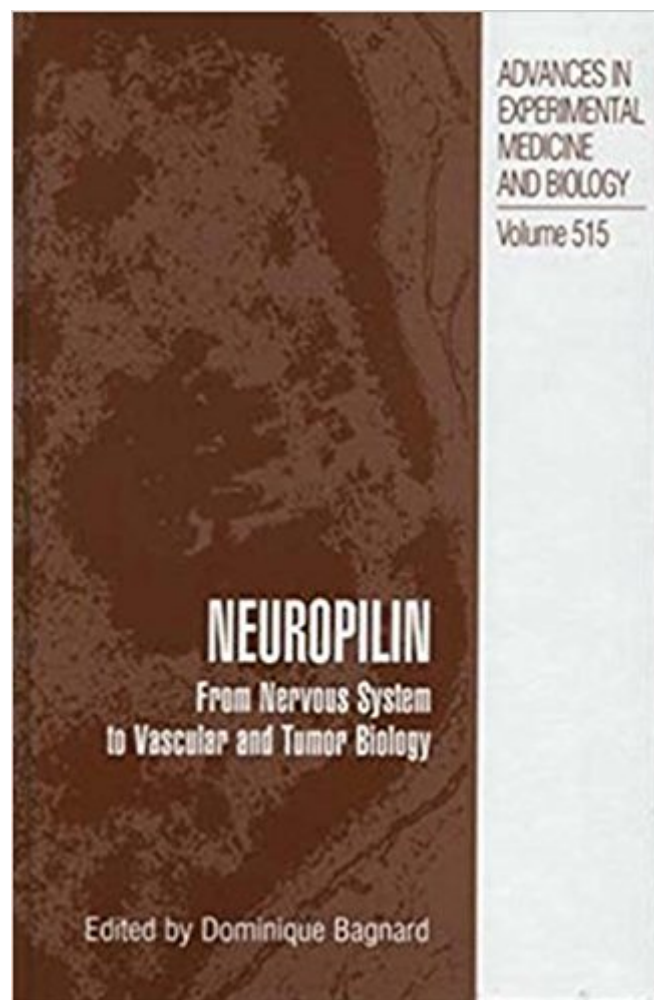




Ebook Directory
the best source of ebook

The book was found

Neuropilin: From Nervous System To Vascular And Tumor Biology (Advances In Experimental Medicine And Biology)



Synopsis

Cell adhesion is one of the most important properties controlling embryonic development. Extremely precise cell-cell contacts are established according to the nature of adhesion molecules that are expressed on the cell surface. The identification of several families of adhesion molecules, well conserved throughout evolution, has been the basis of a considerable amount of work over the past 20 years that contributed to establish functions of cell adhesion in almost all organs. Nowadays, cell adhesion molecules are not just considered as cellular glue but are thought to play critical roles in cell signaling. Their ability to influence cell proliferation, migration, or differentiation depends on both cell surface adhesion properties and activation of intracellular pathways. The next challenge will be to understand how these molecules interact with each other to ensure specific functions in the morphogenesis of very sophisticated systems. Indeed, by exploring the cellular and molecular mechanisms of nervous system development, the group of H. Fujisawa in Japan identified in 1987 an adhesion molecule, neuropilin, highly expressed in the neuroepile of amphibian optic tectum. Ten years later, two groups discovered that neuropilin is a receptor for guidance signals of the semaphorin family. Axon guidance is a critical step during brain development and the mechanisms ensuring growth cone navigation are beginning to be well understood. The semaphorins are bifunctional signals defining permissive or inhibitory pathways sensed by the growth cone.

Book Information

Series: Advances in Experimental Medicine and Biology (Book 515)

Hardcover: 142 pages

Publisher: Springer; 2002 edition (January 31, 2003)

Language: English

ISBN-10: 0306474166

ISBN-13: 978-0306474163

Product Dimensions: 7 x 0.4 x 10 inches

Shipping Weight: 1.1 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #15,832,257 in Books (See Top 100 in Books) #66 in Books > Medical Books > Veterinary Medicine > Cardiology #113 in Books > Medical Books > Veterinary Medicine > Oncology #3240 in Books > Textbooks > Medicine & Health Sciences > Veterinary Medicine > General

[Download to continue reading...](#)

Neuropilin: From Nervous System to Vascular and Tumor Biology (Advances in Experimental Medicine and Biology) Advances in Modelling and Clinical Application of Intravenous Anaesthesia (Advances in Experimental Medicine and Biology) Phylogenetic Perspectives on the Vertebrate Immune System (Advances in Experimental Medicine and Biology) Biology of the Mammary Gland (Advances in Experimental Medicine and Biology) Brain Tumor: The Ultimate Guide to Understanding and Coping with you Brain Tumor Diagnosis Mechanisms of Lymphocyte Activation and Immune Regulation VIII: Autoimmunity 2000 and Beyond (Advances in Experimental Medicine and Biology) (v. 8) Sunlight, Vitamin D and Skin Cancer (Advances in Experimental Medicine and Biology) Neuroimmune Circuits, Drugs of Abuse, and Infectious Diseases (Advances in Experimental Medicine and Biology) Immune Mechanisms of Pain and Analgesia (Advances in Experimental Medicine and Biology) Iron Chelation Therapy (Advances in Experimental Medicine and Biology) Hormonal Carcinogenesis V (Advances in Experimental Medicine and Biology) Targeted Therapies in Cancer:: Myth or Reality? (Advances in Experimental Medicine and Biology) Therapeutic Ultrasound (Advances in Experimental Medicine and Biology) The Pain System: The Neural Basis of Nociceptive Transmission in the Mammalian Nervous System (Pain and Headache, Vol. 8) Handbook of Neurological Sports Medicine: Concussion and Other Nervous System Injuries in the Athlete Biosignalling in Cardiac and Vascular Systems: Proceedings of the International Symposium on Biosignalling in Cardiac and Vascular Systems, 5-7 Septe Vascular and Endovascular Surgery: A Comprehensive Review Expert Consult: Online and Print, 8e (VASCULAR SURGERY: A COMPREHENSIVE REVIEW (MOORE)) Mastery of Vascular and Endovascular Surgery (Mastery of Vascular and Endovascular Surgery (Zelenock)) Introduction to Vascular Ultrasonography: Expert Consult - Online and Print, 6e (Zwiebel, Introduction of Vascular Ultrasonography) Teaching Atlas of Vascular and Non-vascular Interventional Radiology

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)