



# Retinal Muller Cell Structure And Function

**Andreas Reichenbach, Andreas  
Bringmann**



## **Retinal Muller Cell Structure And Function:**

**The Retinal Müller Cell** Vijay Sarthy,Harris Ripps,2001-04-30 This monograph examines the role of the Müller cell the main glial element of the retina in the development organization and function of the vertebrate retina These cells may also play a role in the control of eye growth and in determining the processing of information by surrounding neurons

**The Retinal Müller Cell** Vijay Sarthy,Harris Ripps,2005-12-08 The human brain contains more than a billion neurons which interconnect to form networks that process store and recall sensory information These neuronal activities are supported by a group of accessory brain cells collectively known as neuroglia Surprisingly glial cells are ten times more numerous than neurons and occupy more than half the brain volume Hydn 1961 Although long considered a passive albeit necessary component of the nervous system many interesting and unusual functional properties of glial cells are only now being brought to light As a result the status of these cellular elements is approaching parity with nerve cells as a subject for experimental study The term glia or glue seems today to be a misnomer in view of the diverse functions attributed to glial cells Experimental studies in the last three decades have clearly established that the behavior of glial cells is far from passive and that they are at least as complex as neurons with regard to their membrane properties In addition glial cells are of importance in signal processing cellular metabolism nervous system development and the pathophysiology of neurological diseases The Müller cell of the vertebrate retina provides a splendid example of an accessory cell that exhibits features illustrating every aspect of the complex behavior now associated with glial cells

**na** Andreas Reichenbach,Andreas Bringmann,2011-02-18 Müller cells make up just 0.005% of the cells in our central nervous system They do not belong to the more esteemed family of neuronal cells but to the glia a family of cells that until recently were seen as mere filling material between the neurons Now however all that has changed Sharing the insights of more than a quarter century of research into Müller cells Drs Andreas Reichenbach and Andreas Bringmann of Leipzig University make a compelling case for the central role Müller cells play Everyone agrees that the eye is a very special and versatile sense organ yet it has turned out in recent years that Müller cells are peculiar and multipotent glial cells In the retina of most vertebrates and even of many mammals Müller cells are the only type of macroglial cells thus they are responsible for a wealth of neuron supportive functions that in the brain rely upon a division of labour among astrocytes oligodendrocytes and ependymal cells Even beyond such a role in the central nervous system as model glia Müller cells are adapted to several exciting roles in support of vision They deliver the light stimuli to the photoreceptor cells in the inverted vertebrate retina aid the processing of visual information and are responsible for the homeostatic maintenance of the retinal extracellular milieu In Müller Cells in the Healthy and Diseased Retina aimed not just at neurobiologists but at anyone concerned with retinal degeneration every angle of Müller cells is covered from an introduction to their basic properties through their roles as light cables and shock absorbers to the part they play in diseases and disorders of the eye Once these have all been covered in detail the authors move on to discuss the future direction of

research into these small but potent cellular phenomena About the Authors Dr Andreas Reichenbach was born in 1950 in Leipzig Germany He studied medicine and specialized as a physiologist working on the mammalian retina Since 1984 he has focused his efforts and those of a growing number of fellows in his team on Müller cell research He has held a professorship at Leipzig University since 1994 After studying biology Dr Andreas Bringmann 1960 worked in the field of systemic neurophysiology until he was inspired in 1996 by Andreas Reichenbach to research the most interesting cell the Müller cell He is now in the Department of Ophthalmology of the University of Leipzig where he is the head of the Basic Research Laboratory

Brain Damage and Repair T. Herdegen, J. Delgado-Garcia, 2007-05-08 Brain Damage and Repair aims to attract the interest of neuroscientists and clinical neurologists by building a novel bridge from molecular research to clinical therapy This novel approach reveals the functional features of neurons and glia in the particular context of vulnerability and self protection intracellular properties and extracellular matrix Arising from this platform this volume unfolds the molecular and systemic processes underlying migration disorders axonal injury repair and regeneration Comprehensive chapters on neurological diseases such as M Alzheimer M Parkinson ALS stroke or trauma take this knowledge apply it at the clinical level to provide a basis for novel therapeutic strategies Brain Damage and Repair is completed with chapters on imaging techniques viral gene transfer or legal international handling of stem cell transfer and patents of DNA proteins

Clinical Anatomy and Physiology of the Visual System E-Book Lee Ann Remington, Denise Goodwin, 2021-06-25 Providing the ocular anatomy and physiology content needed for a thorough comprehension of this complex field Clinical Anatomy and Physiology of the Visual System 4th Edition offers a solid foundation for recognizing and understanding specific clinical situations and how they relate to anatomic structure This concise well referenced resource covers the clinical anatomy of the eye its adnexa and visual pathways and histologic information the information you need for success in coursework certification exams and clinical practice Features vivid full color illustrations that help you visualize the clinical anatomy of the eye along with the cellular physiology behind diseases and disorders of the visual system Emphasizes clinical application throughout helping you better understand the processes that occur in disease and dysfunction Clinical Comment sections offer a unique focus on clinical situations conditions diseases and treatments Contains new OCT OCTA MRI and CT images that demonstrate clinical views of ocular anatomy OCT technology is incorporated to describe the retinal layers newly described anatomical components of the vitreous corneal and anterior chamber angle anatomy and the choroidal and retinal vasculature Covers current topics such as genes essential in eye development scleral and choroidal changes occurring with myopia progression limbal stem cells age related macular degeneration and VEGF therapies and microinvasive glaucoma surgical procedures Includes updated concepts and terminology Edinger Westfall preganglionic cells sensory innervation to the cornea knees of Wilbrand intrinsically photosensitive retinal ganglion cells and more Provides expert coverage by a practicing optometrist giving you a practical framework for recognizing and understanding clinical situations problems and treatments Enhanced

eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

**The Fovea** Andreas Bringmann, Peter Wiedemann, 2021-08-28 The Fovea Structure Function Development and Disease summarizes the current biological knowledge regarding the two types of the vertebrate fovea and its main structural elements the Müller cells This information is then used to explain different aspects of human vision foveal development and macular disorders Sections give an overview of the retinal structure and the different types of retinal glia survey the structure and function of the primate and non mammalian fovea types discuss foveal development with a focus on the human fovea cover the roles of Müller cells and astrocytes in the pathogenesis and regeneration of various human macular disorders are described Using a translational approach this reference is a valuable text for scientists clinicians and physicians interested in the fovea Readers will gain a new understanding of the cellular basics of the fovea which is the most important part of the eye Adopts a translational approach summarizing the biological knowledge regarding the structure and function of the fovea the roles of Müller cells in mediating the structural integrity and function of the fovea Provides overviews of both basic types of the vertebrate fovea countering the popular belief that there is only one type of the vertebrate fovea the human fovea Thoroughly shows the mechanisms involved in the development of the fovea that explain the rapid improvement of visual acuity in newborns Explains pathological changes in the foveal structure and function with evaluation pointing toward possible prevention and or cure

*RNA at a breaking point? cytoplasmic cleavage and other post-transcriptional RNA processing in neurodevelopment and disease* Catia Andreassi, Monika Piwecka, Raphaëlle Luisier, 2023-06-29

**Retinal Glia** Andreas Reichenbach, Andreas Bringmann, 2015-02-01 In 1851 Heinrich Müller discovered what he called radial fibers and what we now call Müller cells as the principal glial cells of the vertebrate retina Later on other glial cell types were found in the retina including astrocytes microglia and even oligodendrocytes It turned out that retinal glial cells are essential constituents of the tissue For instance Müller cells appear to constitute the core of columnar units of clonally and functionally related groups of neurons Their primary function is to support neuronal functioning by guiding the light towards the photoreceptor cells removing excess neurotransmitter molecules from extracellular space and performing efficient clearance of excess extracellular potassium ions The latter two functions are also crucial for neuronal survival and are coupled to water clearance which is also essential Müller cells are capable of sensing neuronal activity and modifying it by the release of signal substances gliotransmitters In cases of retinal injuries the Müller cells become reactive and all above mentioned functions are impaired However such de differentiated Müller cells may proliferate and may even serve as stem cells for the regeneration of a damaged retina As well as the Müller cells retinal astrocytes and microglial cells are important players in retinal development and function This book gives a comprehensive survey of the present knowledge on retinal glia

*Handbook of Nutrition, Diet, and the Eye* Victor R Preedy, 2014-04-01 The Handbook of Nutrition Diet and the Eye is the first book to thoroughly address common features and etiological factors in

how dietary and nutritional factors affect the eye The ocular system is perhaps one of the least studied organs in diet and nutrition yet the consequences of vision loss can be devastating One of the biggest contributors to complete vision loss in the western hemisphere is diabetes precipitated by metabolic syndrome In some developing countries micronutrient deficiencies are major contributory factors to impaired vision However there are a range of ocular defects that have either their origin in nutritional deficiencies or excess or have been shown to respond favorably to nutritional components The eye from the cornea to the retina may be affected by nutritional components Effects may be physiological or molecular This book represents essential reading for nutritionists dietitians optometrists ophthalmologists opticians endocrinologists and other clinicians and researchers interested in eye health and vision in general Saves clinicians and researchers time in quickly accessing the very latest details on a broad range of nutrition ocular health and disease issues Provides a common language for nutritionists nutrition researchers optometrists and ophthalmologists to discuss how dietary and nutritional factors and related diseases and syndromes affect the eye Preclinical clinical and population studies will help nutritionists dieticians and clinicians map out key areas for research and further clinical recommendations

Carotenoids and Vitamin A in Translational Medicine Olaf Sommerburg, Werner Siems, Klaus Kraemer, 2013-04-24 Vitamin A retinol is an essential dietary compound with myriad metabolic and regulatory functions Deficiency can result in vision problems compromised immune responses and a host of other medical issues More than 600 carotenoids have been identified in plants algae fungi and bacteria and around 50 carotenoids including carotene can be converted into vitamin A Carotenoids and Vitamin A in Translational Medicine reviews the medical use of carotenoids and vitamin A in cancer diseases of the skin eye ear and lung and inflammatory bowel and metabolic diseases It also discusses the analytics of carotenoids and the supply of carotenoids and vitamin A in developing countries Serving a broad community of researchers and practitioners conducting basic and clinical analysis on carotenoids and vitamin A for medical purposes the book evaluates basic research epidemiological studies and clinical trials in the field It updates information on the worldwide problem of vitamin A deficiency and discusses extensively the pros and cons of carotenoid supplementation in cancer The authors provide a comprehensive overview of the efforts made in the field of carotenoid research with respect to translational medicine and present the future outlook on carotenoids as new therapeutic agents It is the editors intent through the contributions in this volume to expand this important discussion on therapeutic approaches using carotenoids and retinoids In doing so they hope to enhance the quality of research which brings safe effective and clinically proven medicines to patients

**Neuroglia** Helmut Kettenmann, Bruce R. Ransom, 2005 Graduate students in neuroanatomy neurochemistry neurophysiology and molecular neurobiology will find the book indispensable It is also a vital companion for researchers in these fields as well as clinicians in neurology neurosurgery neuropathology neuro oncology psychiatry and psychology

**BOOK JACKET**

**Neuroglia: Function and Pathology** Alexei Verkhratsky, Arthur Butt, 2023-05-12 Diverse specialised neuroglial cells guarantee the development

preservation and health of the central nervous system the peripheral nervous system the enteric nervous system and the special senses In the central nervous system it is the astrocytes oligodendrocytes and microglia that safeguard nerve cell function and integrity that controls all behaviours and encompasses the cerebral cortex of the brain which is the root of humanity In the peripheral nervous system Schwann cells play the leading role together with satellite glial cells of the sensory and autonomic ganglia ensuring correct communication between the organs and tissues with the brain and the spinal cord In the enteric nervous system specialised enteric glial cells maintain all aspects of gastrointestinal function Then there are distinctive glial cells of the special senses that ensure how the body perceives and reacts to its environment In pathology neuroglia strive to protect the diverse cellular components of the nervous system and are responsible for a proactive programme of posttraumatic restructuring that is aimed at recovery of life sustaining function Neuroglia Function and Pathology provides a highly original and comprehensive account of the physiology and pathophysiology of glial cells in the central and peripheral nervous systems The first part of the book provides a far reaching description of glial cell form and function from their evolution in invertebrates to their complexity in humans encompassing the developmental origin of the varied glial cell types and their diversity of morphology molecular biology and cellular physiology The second part of the book is devoted to an all embracing evaluation of glial cell pathophysiology commencing with definitive explanations of the fundamental pathologies of the main glial cell types and ending in a systematic examination of glial contributions to specific neurological diseases This book emphasises the central roles played by the different classes of neuroglial cells in the progression and outcome of neurological disorders of the central and peripheral nervous systems and highlights potential of glial cells as therapeutic targets The book contains more than 2500 key references from over 150 years of glial research and is superbly illustrated with over 350 original and explanatory full colour figures that describe the diverse characteristics and properties of glial cells in health and disease Under the same cover this book combines an authoritative reference book for research and clinical neuroscientists and at the same time serves as an instructive textbook for students of neuroscience from undergraduates to postgraduates Single volume covering key aspects of glial cell physiology and pathology In depth overview of the history of glial cell research Comprehensive review of glial cell physiology and pathology Authoritative special chapters on the major neurological diseases Full colour throughout with 360 illustrations

*Neural Stem Cells* Luca Bonfanti, 2013-04-24 Twenty years after the discovery of neural stem cells the question whether the central nervous system can be considered among regenerative tissues is still open On one side deep characterization of neural stem and progenitor cells their niches and their progeny in brain neurogenic sites overtly showed that new neurons can be generated in the brain of adult mammals including humans On the other side many problems arise when stem cells encounter the mature brain parenchyma still hampering the development of efficacious therapeutic approaches with endogenous or exogenously delivered neural stem cells This book tries to make the point on these extremely promising yet unresolved issues

**Clinical**

**Anatomy of the Visual System E-Book** Lee Ann Remington, Denise Goodwin, 2004-11-30 Taking the place of the multiple texts traditionally needed to cover visual anatomy and physiology *Clinical Anatomy and Physiology of the Visual System* 3rd Edition dramatically lightens your load by providing one book that covers it all This concise well referenced resource contains information on the clinical anatomy of the eye its adnexa and visual pathways histologic information plus newly added content on physiology of the human ocular structures Vivid illustrations complement the text and provide clinical information on diseases and disorders that represent departures from normal clinical anatomy Comprehensive physiology coverage clarifies the integration between structure and function eliminating your need for multiple books on the anatomy and physiology of the visual system An emphasis on clinical application helps you better understand the processes that occur in disease and dysfunction Genetic information keeps you current with the latest developments in visual anatomy and physiology Full color illustrations throughout the text enhance your understanding of anatomical and clinical information UNIQUE Clinical Comment sections provide a solid foundation for recognizing and understanding clinical situations conditions diseases and treatments Photos of normal eye structures illustrate clinical appearance and demonstrate how appearance is directly related to structure Geriatric coverage including aging changes in ocular tissue and the visual pathway keeps you up to date with the expanding field of geriatric care UNIQUE Expert coverage written by an actual optometrist gives you a practical framework for recognizing and understanding clinical situations problems and treatments

**Biomedical Index to PHS-supported Research: pt. A. Subject access A-H**, 1992      **A Morphometric Study of the Retinal Müller Cell** K. E. Rasmussen, 1976      **Research Awards Index**, 1989      *Principles and Practice of Ophthalmology E-Book* Daniel M. Albert, Joan W. Miller, Dimitri T. Azar, Barbara A. Blodi, 2008-02-27 Inside the 3rd edition of this esteemed masterwork hundreds of the most distinguished authorities from around the world provide today's best answers to every question that arises in your practice They deliver in depth guidance on new diagnostic approaches operative technique and treatment option as well as cogent explanations of every new scientific concept and its clinical importance With its new streamlined more user friendly full color format this 3rd edition makes reference much faster easier and more versatile More than ever it's the source you need to efficiently and confidently overcome any clinical challenge you may face Comprehensive authoritative and richly illustrated coverage of every scientific and clinical principle in ophthalmology ensures that you will always be able to find the guidance you need to diagnose and manage your patients ocular problems and meet today's standards of care Updates include completely new sections on Refractive Surgery and Ethics and Professionalism an updated and expanded Genetics section an updated Retina section featuring OCT imaging and new drug therapies for macular degeneration and many other important new developments that affect your patient care A streamlined format and a new more user friendly full color design with many at a glance summary tables algorithms boxes diagrams and thousands of phenomenal color illustrations allows you to locate the assistance you need more rapidly than



ever      **Retina** Stephen J. Ryan, 2013 Unequalled in scope depth and clinical precision Retina 5th Edition keeps you at the forefront of today's new technologies surgical approaches and diagnostic and therapeutic options for retinal diseases and disorders Comprehensively updated to reflect everything you need to know regarding retinal diagnosis treatment development structure function and pathophysiology this monumental ophthalmology reference work equips you with expert answers to virtually any question you may face in practice Benefit from the extensive knowledge and experience of esteemed editor Dr Stephen Ryan five expert co editors and a truly global perspective from 358 other world authorities across Europe Asia Australasia the Americas Examine and evaluate the newest diagnostic technologies and approaches that are changing the management of retinal disease including future technologies which will soon become the standard Put the very latest scientific and genetic discoveries diagnostic imaging methods drug therapies treatment recommendations and surgical techniques to work in your practice      **Cell-Cell Interactions Controlling Neuronal Functionality in Health and Disease** Stefano Angiari, Rosa Chiara Paolicelli, Luca A. Ramenghi, Eleonora Vannini, Giuseppina D'Alessandro, Ilaria Prada, 2022-07-27

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