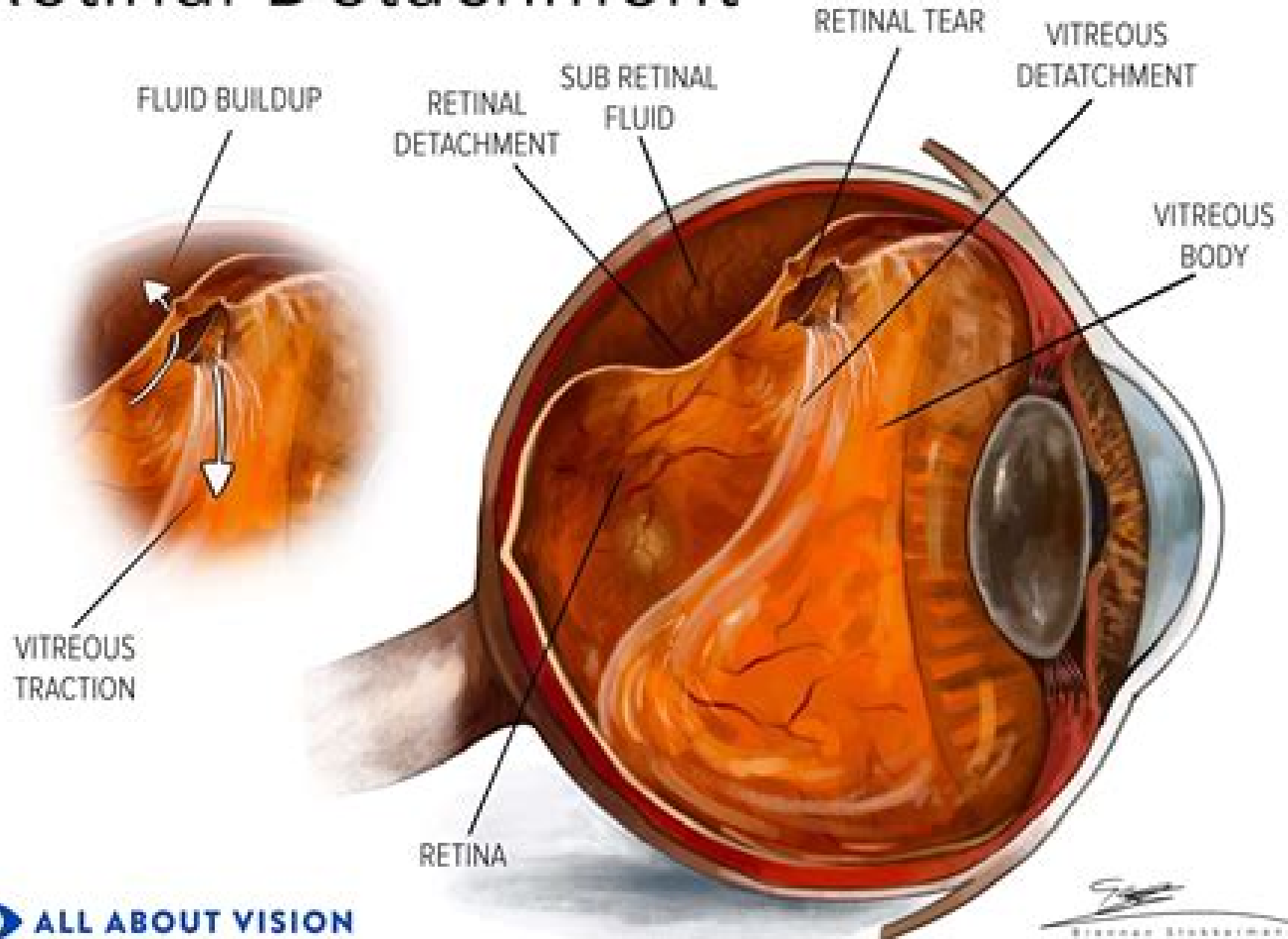


Retinal Detachment



Detached Retinas

John E. Dowling



Detached Retinas:

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.

Clinical Atlas of Peripheral Retinal Disorders Keith M. Zinn, 2012-12-06 A comprehensive understanding of diseases of the peripheral retina is essential to the general ophthalmologist as well as to the vitreoretinal surgeon. Expertise in direct ophthalmoscopy, scleral depression, and contact lens biomicroscopy serves as a basis for observing the peripheral retina. These observations are then recorded on fundus drawing paper and the Tolentino vitreoretinal chart. This orderly sequence of skills allows the ophthalmic surgeon to objectively diagnose and evaluate specific peripheral retinal disorders and plan for their therapeutic management. *The Clinical Atlas of Peripheral Retinal Disorders* is a compilation of fundus paintings by David A. Tilden based on our observations of a large number of patients over the past 15 years. The atlas is organized along functional and anatomical lines. After a brief introduction to the clinical anatomy of the peripheral retina, the appearance of

the fundus as a function of skin color and aging is presented Many of the diseases of the peripheral retina can be divided into trophic nutritional tractional and a combination of trophic plus tractional etiologies This classification system although somewhat simplistic appears adequate for our present level of understanding of the pathogenetic mechanisms of these disorders Undoubtedly once the molecular biology of these conditions is elucidated through future research the classification will be revised In addition there are other conditions that affect the peripheral retina that do not fit the proposed classification system and are covered under separate headings i e 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 **The Retina** John E. Dowling, 1987 **Retinal Detachment** Daniel A. Brinton M.D., Charles P. Wilkinson M.D., 2009-07-29 Retinal Detachment Principles and Practice provides a historical review of current information on the diagnosis and treatment of retinal detachment It is intended as both an introduction for graduate students in ophthalmology and a concise review or reference for practicing ophthalmologists The volume defines the types of retinal detachments their classifications and causes and covers preoperative examination preoperative management prophylactic procedures surgery complications of surgery and results of reattachment surgery It also includes a historical introduction suggested readings at the end of each chapter and the classic article The Technique of Binocular Indirect Ophthalmoscopy by Morten L Rosenthal **Detachment of the Retina** Joseph Ringland Anderson, 1931 *Modern Ophthalmology; a Practical Treatise on the Anatomy, Physiology, and Diseases of the Eye* James Moores Ball, 1904 Diagnosics of the Fundus Oculi Edward Leroy Oatman, 1920 Diagnosics of the fundus oculi v.1 Edward L. Oatman, 1920 *Diagnosics of the fundus oculi, v.1* Edward Leroy Oatman, 1913 **American Journal of Ophthalmology**, 1919 Retinal Detachment Jack J. Kanski, Zdenek J. Gregor, 1994 Aims to give the trainee ophthalmologist an overview of the diagnosis and management of retinal detachment The many advances in vitreoretinal

surgery have led to a complete revision and much new material particularly in the treatment of complex retinal detachments by vitrectomy has been added **The Ophthalmic Year Book** ,1905 Diagnostics of the Fundus Oculi Edward L. Oatman,1913 **Ophthalmic Record** ,1912 **The Ophthalmic Record** ,1917 **Diseases of the Eye** George Edmund De Schweinitz,1921 **System of Diseases of the Eye: Local diseases, glaucoma, wounds and injuries, operations** William Fisher Norris,Charles Augustus Oliver,1898 **Contributions** University of Pennsylvania. William Pepper Laboratory of Clinical Medicine,1906 **Dryfoos V. Scavenger Service Corporation** ,1940

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