

THE RETINA AND ITS DISORDERS



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Description This selection of articles from the Encyclopedia of the Eye covering retina, optics/optic nerve and comparative topics constitutes the first reference for scientists, post docs, and graduate students with an interest beyond standard textbook materials. It covers the full spectrum of research on the retina - from the basic biochemistry of how nerve cells are created to information on neurotransmitters, comparisons of the structure and neuroscience of peripheral vision systems in different species, and all the way through to injury repair and other clinical applications. The Retina and its Disorders, 1st Edition Animal Models of Glaucoma S I Tomarev Chick Metabolism in the Chick Retina P M Iuvone Central Retinal Vein Occlusion S S Hayreh Choroidal Neovascularization M R Kesen and S W Cousins Chromatic Function of the Cones D H Foster Color Blindness: Inherited J Carroll and D M Tait Cone Photoreceptor Cells: Soma and Synapse R G Smith Contrast Sensitivity P Bex Development of the Retinal Vasculature T Chan-Ling Embryology and Early Patterning P Bovolenta, R Marco-Ferreres, and I Conte Fish Retinomotor Movements B Burnside and C King-Smith Hereditary Vitreoretinopathies S Meredith and M Snead Histogenesis, Cell Fate, and Signaling Factors M Cwinn, B McNeill, A Ha, and V A Wallace Immunobiology of Age-Related Macular Degeneration R L Ufret-Vincenty Information Processing in the Retina F S Werblin Inherited Optic Neuropathies A A Sadun and C F Chicani Injury and Repair: Stem Cells and Transplantation B A Tucker, M J Young, and H J Klassen Innate Immune System and the Eye M S Gregory Neuropeptides: Localization N C Brecha, A A Hirano, and I D Raymond The Photoreceptor Outer Segment as a Sensory Cilium J C Besharse and C Insinna Photoresponse in Squid J Mitchell and W Swardfager Retinal Histogenesis J A Brzezinski, IV and T A Reh Retinal Pigment Epithelial-Choroid Interactions K Ford and P A D'Amore Rhegmatogenous Retinal Detachment S C Wong, Y D Ramkissoon, and D G Charteris