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The Retinal Pigment Epithelium: Function and Disease

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Michael F. Marmor, Thomas J. Wolfensberger : The Retinal Pigment Epithelium: Function and Disease before purchasing it in order to gage whether or not it would be worth my time, and all praised The Retinal Pigment Epithelium: Function and Disease:

The retinal pigment epithelium is a critical tissue within the eye. It lies directly behind the retina, where it provides metabolic support to the photoreceptors and controls their local environment. As a result, the RPE is vital to retinal function, but also a site of aging and disease that cause dysfunction and visual loss. This book brings together comprehensive reviews of basic and clinical science concerning the RPE. It is organized to juxtapose chapters on RPE disease with chapters on the underlying pathophysiology. These include up-to-date accounts of growth factors, laser effects, proliferative vitreoretinopathy, Bruch's membrane pathology, as well as new diagnostic tools such as ocular coherence tomography, in vivo imaging of lipofuscin and non-photic electrical responses. Other chapters cover pharmacology and toxicology, mechanisms of retinal adhesion and detachment, RPE pigments and transport, congenital and dystrophic diseases, animal models of RPE disease, and different aspects of age-related macular degeneration. The history and evolutionary aspects of the RPE are also presented. The contributing authors are experienced clinicians and eminent basic scientists who work on this critical part of the eye. The book will be a valuable resource for anyone interested in the eye, and a necessity for specialists in the fields of retinal physiology and

retinal disease.

" The editors of this new text are to be congratulated for developing a remarkable encyclopedic treatise on the retinal pigment epithelium (RPE). ... This book will likely quickly replace the previous text in university and department libraries as a necessary reference. It will be bought by specialists and researchers with a specific interest in this area, as there is a wealth of relevant, up-to-date information, from electrophysiology and pathophysiology to their clinical application to disease affecting the RPE." Canadian Journal of Ophthalmology (Oct 1999)"The Retinal Pigment Epithelium succeeds admirably. The editors (clinicians/scientists of considerable note themselves) have brought together a collection of the world's experts in their respective fields to thoroughly review our current state of knowledge about RPE. Particularly impressive is the breadth of subjects covered."--Archives of Ophthalmology"

The editors of this new text are to be congratulated for developing a remarkable encyclopedic treatise on the retinal pigment epithelium (RPE). The book is dedicated to the memory of Dr. Roy Steinberg, who contributed greatly to the field of RPE research and was one of the authors of the first book on this subject, published 20 years ago. Only three of the original authors have participated in the new text. An impressive 60 authors, international experts in the field, have been recruited to write a greatly expanded text."--Canadian Journal of Ophthalmology

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