



Optical Coherence Tomography of Ocular Diseases

By Joel S. Schuman MD, Carmen A. Puliafito MD, James G. Fujimoto PhD, Jay S Duker MD

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For more than 17 years, *Optical Coherence Tomography of Ocular Diseases* has been the classic text on this essential imaging technology.

This completely revised and updated *Third Edition* of *Optical Coherence Tomography of Ocular Diseases* reflects the quickly advancing technology of spectral domain optical coherence tomography (OCT).

Incorporated within over 600 pages are a multitude of updated features unique to this *Third Edition* including over 1,200 color images, state-of-the-art technology, and case presentations. These elements cohesively work together to successfully demonstrate the retina in normal and diseased states using spectral domain OCT.

Optical Coherence Tomography of Ocular Diseases, Third Edition is written with the clinician in mind. The text's primary objective is to illustrate the appearance of the eye in health and disease, comparing conventional clinical technologies using spectral domain OCT imaging. This method introduces the clinician to the manifestations of disease as indicated by OCT, while presenting the more familiar fundoscopic and fluorescein angiographic views side-by-side.

Drs. Joel S. Schuman, Carmen A. Puliafito, James G. Fujimoto, and Jay Duker, together with their 17 contributors, have collaborated to revise and update this best-selling comprehensive resource to reflect the current state-of-the-art technology of spectral domain OCT.

OCT applications in retinal diseases, glaucoma, neuro-ophthalmology, anterior segment, and a description of OCT technologies are all topics extensively covered in this new Third Edition. Two appendices are included that contain a wealth of technical information for those interested in learning more about the physical principles of operation of this diagnostic imaging technology, as well as scanning and image processing protocols.

FEATURES:

- Utilizes and interprets spectral domain OCT imaging from multiple machines.
- Over 1,200 color images.
- Strong focus on retina, glaucoma, neuro-ophthalmology, and the anterior segments.

This classic text will provide a clinical reference for eyecare professionals, as well as retina and glaucoma specialists, that shows how to utilize and interpret OCT imaging to enhance diagnostic sensitivity and specificity, as well as to enhance therapeutic decision making and monitor the outcome of treatment. This is the go-to resource for both clinicians and scientists interested in optical imaging of the eye.

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Editorial Review

Review

“As the authors are the developers of OCT technology, there is no more authoritative source to write this book. This clinical reference is well designed for all clinical eyecare professionals. With the rapid advancement in OCT technology and image resolution, this is a necessary update. It continues to be the premier reference and atlas on OCT imaging, written by the inventors themselves. It is a great addition to every eye care professional’s library.”

- Ayham Skaf, MD, *California Retina Associates, Doody’s Book Review Service*

About the Author

Joel S. Schuman, MD, is the Eye and Ear Foundation Professor and Chairman of Ophthalmology, the Eye and Ear Institute, University of Pittsburgh School of Medicine, and Director of UPMC Eye Center. He is Professor of Bioengineering at the Swanson School of Engineering, University of Pittsburgh. Dr. Schuman and his colleagues were the first to identify a molecular marker for human glaucoma (*Nature Medicine*, 2001). The NIH has continuously funded him since 1995 as principal investigator of a grant to study novel glaucoma diagnostics. He is an inventor of optical coherence tomography (OCT). He has published more than 250 peer-reviewed scientific journal articles, 8 books, and more than 50 book chapters. In 2012, Dr. Schuman received a Carnegie Science Center Award. He shared the 2012 Champalimaud Award for the invention and development of OCT with James G. Fujimoto, David Huang, Carmen A. Puliafito, and Eric Swanson.

Carmen A. Puliafito, MD, MBA, was appointed Dean of the Keck School of Medicine of the University of Southern California, May S. and John Hoover Dean’s Chair in Medicine, and Professor of Ophthalmology and Health Management in November 2007. Since his appointment, he has led the continuing transformation of the Keck School into one of the United States’ preeminent research-intensive medical schools. Dr. Puliafito is a renowned ophthalmologist, widely recognized for his innovative advances in treatment, including his co-invention of OCT. In addition to his responsibilities as Dean, he is an active clinician at USC’s Doheny Eye Institute and serves as the current editor of *Ophthalmic Surgery, Lasers and Imaging*. A cum laude graduate of Harvard College and a magna cum laude graduate of Harvard Medical School, Dr. Puliafito also earned an MBA from the Wharton School of the University of Pennsylvania. He shared the 2012 Champalimaud Award for the invention and development of OCT with James G. Fujimoto, David Huang, Joel S. Schuman, and Eric Swanson.

James G. Fujimoto, PhD, is the Elihu Thomson Professor of Electrical Engineering and Computer Science at the Massachusetts Institute of Technology. Dr. Fujimoto’s group and collaborators are credited with the invention and development of OCT imaging in the early 1990s. He has published nearly 400 peer-reviewed journal articles and is coeditor of more than 10 books and coauthor of more than 20 patents. He is a member of the National Academy of Sciences, the National Academy of Engineering, and the American Academy of Arts and Sciences. Dr. Fujimoto cofounded the startup company Advanced Ophthalmic Devices, which developed OCT for ophthalmic imaging and was acquired by Zeiss. He is also cofounder of LightLab Imaging, which developed intravascular OCT and was recently acquired by St. Jude Medical. He shared the 2012 Champalimaud Award for the invention and development of OCT with David Huang, Carmen A.

Puliafito, Joel S. Schuman, and Eric Swanson.

Jay S. Duker, MD, is the Ophthalmologist-in-Chief at Tufts Medical Center, Director of the New England Eye Center, and Chairman of the Department of Ophthalmology at Tufts University School of Medicine. Dr. Duker has been at Tufts Medical Center for 20 years and previously served as Director of the Retina Service. A graduate of Harvard University and Jefferson Medical College, he completed his postgraduate training at Wills Eye Hospital in Philadelphia. His research interests include new treatments of vascular disease, intraocular drug delivery, and imaging of the posterior segment. He has been instrumental in the development of OCT.

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