Fundus Autofluorescence

Featuring over 250 illustrations, this detailed full-color textbook provides up-to-date information on the use of fundus autofluorescence imaging in the evaluation of retinal disease.

The basic science chapters in this volume explain the synthesis and degradation of lipofuscin, the main fluorophore in the retina generating the fundus autofluorescence signal; the techniques available to image and quantify fundus autofluorescence and their basis; and the anatomo-pathologic correlations of autofluorescence findings.

The clinical science chapters describe the distribution of autofluorescence across the fundus in the healthy eye and in various diseases—age-related maculopathy and macular degeneration, inherited retinal dystrophies, posterior uveitis, central serous chorioretinopathy, macular holes and related conditions, and intraocular tumors.

Emphasis is on the value of fundus autofluorescence as a diagnostic and prognostic tool. The authors discuss the clinical utility of fundus autofluorescence in the context of other imaging techniques, such as fluorescein and indocyanine green angiography and optical coherence tomography. Each chapter also points out the value of fundus autofluorescence findings in understanding the pathogenesis of the condition, and provides a comprehensive update on all aspects of the condition.