

# Auto-fluorescence Imaging of the Retinal Fundus

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**Purpose:** Auto-fluorescence imaging is a non-invasive and easily performed type of fundus imaging. Using specific wave-lengths we are able to image auto-fluorescence in the retinal pigment epithelium. Auto-fluorescence imaging of the ocular fundus relies on the stimulated emission of light from molecules, chiefly lipofuscin, in the retinal pigment epithelium. As our knowledge of the RPE expands this type of imaging is in-creasing. It is helpful in diagnosing retinal diseases and easily documents changes within the RPE.

**Methods:** A modified Topcon 50X and a Heidelberg HRA2 were used to do the imaging. Comparison for the two types of imaging will be shown using the same fundus patient images for comparison.

**Results:** This type of image is a noninvasive way to image and monitor changes in the RPE.

**Conclusions:** As we better understand these RPE changes we will better understand and possibly provide earlier treatment for patients with macular diseases.