Advanced Instruments for Vision Research

Multimodal High-resolution Imaging System For The Human Retina

- Cones
- Bright / Dark Field Imaging
- Nerve fiber bundles
- Rods
- Capsillaries
- Aneurism
- Stargardt’s disease
- Activated GFP-expressing Microglia

AO Scanning Laser Ophthalmoscopy (AO-SLO)
Optical Coherence Tomography (AO-OCT)

Clinical Studies Monitoring Treatment Efficacy

Animal Studies

Multimodal Adaptive Optics Imaging Platform for Rodent Eyes

Technologies developed under NIH funding.

Reflectance and Fluorescence imaging

Courtesy of:
- Gadi Wollstein, UPMC
- James Akula, BCH, HMS

Martin W. Petroll, PhD
Compact Adaptive Optics Retinal Imager

Cellular resolution multi-modal retinal imaging

Revolutionizing Ophthalmology

Nerve fiber bundles

Capillaries

Stargardt’s disease

AO Line-Scanning Ophthalmoscopy (AO-LSO)
Optical Coherence Tomography (AO-OCT)

Fundus albipunctatus

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