

# BioPhotonics

Bringing Light to the Life Sciences®

## WEBINARS

Join us for a **FREE Webinar**

### **Retinal Imaging with Adaptive Optics Optical Coherence Tomography**

**Wednesday, September 25, 2024 10:00 AM - 11:00 AM EDT**

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When imaging the living human eye, even if a person has perfect vision, blur caused by ocular aberrations of the eye limits resolution. This blur rapidly fluctuates due to a number of factors, such as the impact of the heartbeat. Consequently, it is not possible using conventional methods, such as customized contact lenses, to correct for this blur. This blur can be corrected by using adaptive optics, which is a technique used in astronomy to remove the blurring effect of the atmosphere when acquiring images with ground-based telescopes. When combining adaptive optics with OCT, it is possible to image the structure and function of the retina at the single-cell level. This technology is revolutionizing the early detection of retinal disease. Given that the retina is a window to the brain, this ability opens the possibility of using retinal imaging for presymptomatic detection of neurodegenerative and psychiatric diseases.



### **Upcoming Webinars**

- [SWIR and NIR Disruptive Zoom Lens for Challenging Environments: Air, Land, and Maritime](#), 9/12/2024 9:00:00 AM EDT
- [Understanding Commercial Off The Shelf \(COTS\) Lens Tolerances](#), 9/17/2024 1:00:00 PM EDT
- [How Motion Control Enables Modern Datacom Technologies](#), 9/19/2024 10:00:00 AM EDT

### **Archived Webinars**

- [Lights! Camera! Optics! Tricks of the Trade for Developing Front Ends for Machine Vision Systems](#)
- [Manufacturing-Aware Design of Photonic Integrated Circuits](#)
- [How to Improve Laser Applications Using Freeform Optics](#)

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