





SEMINARIO DE IMÁGENES Y VISIÓN INSTITUTO DE ÓPTICA (CSIC)

Towards understanding retinal mechanisms through cellular-scale fluorescence lifetime ophthalmoscopy Jennifer Hunter, MSc, PhD

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In vivo cellular-scale imaging of retinal structure and function is needed to identify and characterise biomarkers of early retinal changes with age and in disease. With the aid of adaptive optics, retinal cellular mosaics in the living eye can be observed. Fluorescence lifetime imaging can provide information about cellular function and fluorophore composition. Combining adaptive optics with fluorescence lifetime ophthalmoscopy has allowed investigation into two areas of research: (a) to enhance two-photon excited fluorescence imaging capabilities for living animal eyes and (b) develop measures of biomarkers for health and disease in human outer retina.

Dr. Hunter joined the School of Optometry and Vision Science at the University of Waterloo in August 2022 as a tenured Associate Professor. Previously, she was faculty at the University of Rochester for 11 years. She is an active member of the ANSI Z136 Safe Use of Lasers standards committee and the Laser Bioeffects & Medical Surveillance subcommittee (TSC-1). Dr. Hunter is a Fellow of Optica (formerly OSA). She has ~43 publications in peer-reviewed journals with over 2200 citations.



Lunes 22 de Mayo de 2023 12:00h Sala de Conferencias, Instituto de Óptica (CSIC) C/Serrano, 121 28006 Madrid

STREAMING: IO-CSIC youtube channel https://www.youtube.com/@IO-CSIC/streams