

Presentations

Edoardo Villani MD, FEBO Department of Clinical Science and Community Health, University of Milan, Italy

The growing need for validated ocular surface biomarkers: the role of imaging

This presentation will introduce the topic to the audience and outline the types of biomarkers and steps involved in biomarker development

Stephanie Cox, OD

New England Eye Center, Tufts Medical Center

Center for Translational Ocular Immunology, Tufts Medical Center

Tear film assessment: non-invasive tear break up time and meniscometry

This presentation will highlight the current status of the analytical validation of non-invasive tear break up time and meniscometry. This presentation will also utilize the current literature to address the types of biomarkers that non-invasive tear break up time and meniscometry could provide as well as the current status of the clinical validation for these potential biomarkers.

Reiko Arita, MD

Department of Ophthalmology, Itoh Clinic, Saitama, Japan

Meibomian gland assessment: Infra-red meibography

This presentation will address IR meibography advantages, image acquisition, and interpretation. This presentation will also address the current status of the analytical validation of this imaging biomarker with an emphasis on the issues related to repeatability and reproducibility. This presentation will also address the clinical validation of this potential biomarker

Pedram Hamrah, MD, FACS, FARVO Cornea Service, New England Eye Center, Tufts Medical Center, Tufts University School of Medicine, Boston, MA

Assessment of ocular surface inflammation and corneal nerve alterations by in vivo confocal microscopy

This presentation will review the current literature surrounding in vivo confocal microscopy from the perspective of analytical validation. The presentation will highlight the multiple clinical populations that have been found to have altered inflammatory and nerve parameters in a way that addresses the current gaps in clinical validation.

Anat Galor, MD

Bascom Palmer Eye Institute, University of Miami, Surgical Services, Miami Veterans Administration, Miami, FL, USA

Optical coherence tomography for ocular surface and corneal diseases

This presentation will address the current utilization of anterior-segment OCT in a wide range of applications in corneal and ocular surface diseases. It will also address quantitative biomarkers available via OCT and the potential of OCT-angiography as a biomarker.