

International Ocular Surface Society

26th Annual Meeting Program

May 3, 2025



Presentation Guidelines: Presentation - 8 minutes; Discussion - 2 minutes

TIME	PRESENTER	TITLE	INSTITUTION
7:15-7:45		Sign In - Continental Breakfast	
7:45		Welcome from the President, Michael E. Stern	
Moderator: Marlies Gijs			
Tears, Clinical			
8:00	Marlies Gijs	Standardizing tear fluid biomarker research: A comprehensive review of collection and analysis protocols	University Eye Clinic Maastricht, School of Mental Health and Neuroscience, The Netherlands
8:10	Louis Tong	Longitudinal changes of tear cytokines after allogenic hematopoietic grafts: implications for ocular graft versus host disease	Singapore National Eye Center, SERI, Duke-NUS Medical School
8:20	Ashok Sharma	Potential normalizing proteins in tear fluid	Medical College of Georgia, Augusta University, Augusta, GA
8:30	Yu-Chi Liu	Imaging and Molecular Biomarkers for Differentiation of Neuropathic Corneal Pain from Dry Eye Syndrome	Dept of Cornea and External Eye Diseases, Singapore National Eye Centre
8:40	Holly Chinnery	Functional in vivo confocal microscopy reveals altered immune cell density and morphodynamics in the post-LASIK cornea	Department of Optometry and Vision Sciences, University of Melbourne, Victoria, Australia
8:50	Pragnya Rao Donthineni	Which Ocular Symptoms Predict Dry Eye Signs - Insights from the Sjögren's International Collaborative Clinical Alliance cohort	BPEI, LV Prasad Eye Institute, Hyderabad, India
9:00	Gary D. Novack	A phase 2, double-masked, randomized, vehicle-controlled study of VVN461 Ophthalmic Solution in treating post-operative ocular inflammation in subjects undergoing routine unilateral cataract surgery	University of California, Davis; PharmaLogic Development, Inc.
9:10	Stephanie Watson	Sex differences in clinical characteristics of dry eye disease: A Save Sight Dry Eye Registry study	Sydney Medical School, Faculty of Medicine and Health, The University of Sydney, NSW, Australia
9:20	Ngozi C. Chidi-Egboka	Clinical characteristics in patients with dry eye disease categorised by symptom severity: A Save Sight Dry Eye Registry study	Sydney Medical School, Faculty of Medicine and Health, The University of Sydney, NSW, Australia
9:30	Clemence Bonnet	Limbal Epithelial Cells Are Present In Eyes With Stage III/Total Limbal Stem Cell Deficiency Evaluated By In Vivo Confocal Microscopy	Stein Eye Institute, UCLA
9:40	Vivien Coulson-Thomas	Age-related changes to the extracellular matrix contribute to Meibomian Gland Dysfunction	College of Optometry, University of Houston, TX, UTSW, Dallas, TX
9:50	Chia-Yan Liu	Generation of a Tamoxifen-inducible Cre mouse driver, Col8a2-P2A-CreERT2, for corneal endothelial biology and disease research	Department of Ophthalmology, College of Medicine, University of Cincinnati
10:00	Brian C. Leonard	Pharmacokinetics, pharmacodynamics and potential mechanism of a novel species-inspired lipid therapy (rNPL593) for the treatment of dry eye disease	Department of Ophthalmology & Vision Sciences, School of Medicine, UC, Davis, CA
Break (10:10-10:25)			
Moderator: Mary Ann Stepp			
Ocular Surface Cells, Neural, Microbiology			
10:30	Luisa H. Colorado	Time-Lapse In Vivo Confocal Microscopy Assessment of Corneal Dendritiform Cell Dynamics: Associations with Systemic and Demographic Factors in a Young Healthy Population	Centre for Vision and Science Research, Optometry and Vision Science, Faculty of Health, Queensland University of Technology, Australia
10:40	Ebru Yaman	Aging and dry eye alter corneal sensitivity to mechanical and chemical stimulation	Ocular Surface Center, Baylor College of Medicine, Houston, TX
10:50	Ignacio Alcalde	Impact of diabetic neuropathy on function and morphology of corneal cold thermoreceptors	Instituto Universitario Fernández-Vega, University of Oviedo & Fundación de Investigación Oftalmológica
11:00	Jeremias G. Galletti	IFN γ drives corneal nerve degeneration	Institute of Experimental Medicine (CONICET-National Academy of Medicine of Buenos Aires), Argentina
11:10	Rajni Rajan	Fun-IVCM reveals the dynamic in vivo responses of human corneal epithelial cells to an acute hyperosmolar stimulus in post-LASIK eyes: a randomized controlled trial	Optometry and Vision Sciences, The University of Melbourne, Melbourne, VIC, Australia.
11:20	Naren G. Kumar	P. aeruginosa demonstrates location-specific tolerance to antibiotics during corneal infection	Herbert Wertheim School of Optometry and Vision Science, University of California Berkeley, Berkeley, CA.
11:30	Alejandro Arboleda	Cytokine Expression of Corneal Epithelial Cells to Methicillin-Resistant Staphylococcus Aureus and Photodynamic Antimicrobial Therapy – A Pilot Study	Cullen Eye Institute, Dept. of Ophthalmology, Baylor College of Medicine, Houston, TX
11:40	Yutao Liu	PP1P5K2 Knockdown Affects Glycolysis in Human Corneal Stromal Cells	Cellular Biology and Anatomy, Medical College of Georgia, Augusta University, Augusta, GA
11:50	Laura Schaefer	Investigating the ocular surface microbiome using a culturomics approach	Ctr of Metagenomics and Microbiome Research, Baylor College of Medicine, TX
12:00	Mohammad Soleimani	Artificial Intelligence-Driven Differential Diagnosis of Microbial Keratitis: A Dual-Modality Approach Using Slit-Lamp and In Vivo Confocal Microscopy	Department of Ophthalmology, University of North Carolina at Chapel Hill, Chapel Hill, NC
12:10	Swati Singh	Corneal sensitivity, sub-basal corneal nerve plexus, and tear neuropeptides in symptomatic versus asymptomatic visual display terminal users	Prof. Krothapalli Ravindranath Ophthalmic Research Biorepository, LV Prasad Eye Institute, Hyderabad, India
12:20	Ching Yi Wu	Corneal nerves and immune cells are altered in individuals with multiple sclerosis	Department of Optometry and Vision Sciences, The University of Melbourne, Victoria, Australia.
1 Hour Lunch Break (12:30-1:30)			



Award Lecture Introduction by President

Roger W. Beuerman Award Lecture - James V. Jester, PhD

Mechanisms Controlling Meibocyte Renewal and Differentiation and Their Impact on the Effects of Age and Stress.

Moderator: Stephen Pflugfelder

Evaluation of Pathology, Inflammation, GVHD

2:40	Shruti Sharma	Protective role of L-carnitine on benzalkonium chloride-induced ocular surface damage in a murine model of dry eye disease	Center for Biotechnology and Genomic Medicine, Augusta University, Augusta, GA
2:50	Mengliang Wu	The impact of type 1 diabetes on human corneal immune cells: a pilot study	Dept of Optometry and Vision Sciences, The University of Melbourne, Victoria, Australia.
3:00	Kaitlin K. Scholand	Regulatory T cells protect against autoreactive CD4+ T cell-related meibomian gland dysfunction	Ocular Surface Center, Baylor College of Medicine, Houston, TX
3:10	Hon Shing Ong	Quantitative Stain-free Conjunctival Collagen Imaging in Cicatrizing Conjunctivitis using Second Harmonic Generation-Two Photon Excitation Technology	Corneal and External Eye Diseases Department, Singapore National Eye Centre
3:20	Vickery Trinkaus-Randall	Alkali and acid injuries induce unique signaling profiles in corneal epithelium that can be partially reversed by activating ion receptors	Boston University Chobanian and Avedisian School of Medicine, Boston MA
3:30	Fairouz Elsaedi	Revealing IL-2 Epithelial Signaling Pathways in Human Corneal Epithelial Cells	Ocular Surface Center, Baylor College of Medicine, Houston, TX
3:40	Vivek Singh	Defining Local Immune Dysregulation in Stevens-Johnson Syndrome through Ocular Wash-Based Immunophenotyping	Prof. Brien Holden Eye Research Centre, LVPEI, Centre for Ocular Regeneration, Hyderabad, Telangana, India
3:50	Sayan Basu	Role of Neutrophils and Histone Proteins in Ocular Surface Inflammation in Dry Eye Disease	Prof. Brien Holden Eye Research Centre, LVPEI, Centre for Ocular Regeneration, Hyderabad, Telangana, India
4:00	Sarah B. Sunshine	The Role of Granzyme B in a murine model of Ocular Graft vs Host Disease	Univ. of Maryland School of Medicine; Dept of Ophthalmology and Visual Sciences
4:10	Hong Qi	Dry Eye Disease Induced by HER2-Targeted Monoclonal Antibodies: A Case Report and Management Analysis	Department of Ophthalmology, Peking University Third Hospital
4:20	Meltem Yashar	Characteristics of Belantamab-Associated Keratopathy in Patients with Refractory/Relapsed Multiple Myeloma	Wilmer Eye Institute, Johns Hopkins University School of Medicine, Baltimore, MD
4:30	Jesús Merayo-Llodes	Plasma rich in growth factors as a treatment for ocular surface fibrotic complications in graft versus host disease patients	Instituto Universitario Fernández-Vega, Univ of Oviedo & Fundación de Investigación Oftalmológica, Spain
4:40	Leonie Menghesha	Real-World Evaluation of Belumosudil for Chronic Ocular GVHD: Efficacy and Outcomes	Competence Center for Ocular GVHD, Dept I of Internal Med and of Ophth, University of Cologne, Germany

Break (4:40-4:55)

Moderator: Philipp Steven

Mini-Symposium Section: Ocular Surface Side Effects of Cancer Immunotherapy

5:00	Philipp Steven	Ocular toxicities due to oncological therapies - What is the relevance for the ocular surface and what are the requirements for optimized care?	CIO, Depts. of Internal Medicine and Ophthalmology, Univ. of Cologne, Germany
5:20	Sandeep Jain	Ocular GVHD – Pathomechanisms, prediction and novel treatments	Department of Ophthalmology & Visual Sciences, Univ. of Illinois Chicago, IL
5:40	Neel Pasricha	Antibody-Drug Conjugate Ocular Surface Adverse Events	UC San Francisco, Francis I. Proctor Foundation

Closing Comments from the President

Cocktail Reception (6:15-7:30pm)