

ARVO 2023

April 23-27 | New Orleans

UTSouthwestern
Medical Center

Department of Ophthalmology

Presentations and Posters

Date / Time	Session / Section	Title	Author / Presenter
Sun., 4/23 / 8-9:45am	18 / Cornea (Poster)	B0307: Sdr16c5 and Sdr16c6 genes control a bifurcation point between meibogenesis and sebogenesis in Meibomian glands of mice by suppressing a dormant biosynthetic pathway	Igor Butovich, Ph.D.
Sun., 4/23 / 3:45-5:30pm	64 / Glaucoma (Poster)	B0080: Exploring the use of forward genetics to search for novel genetic associations to glaucoma	Bogale Aredo, Ph.D.
Sun., 4/23 / 4-4:15pm	314 / Immunology/Microbiology (Presentation)	R07-R08: Mitochondrial homeostasis in the healthy and diseased cornea	Danielle Robertson, O.D., Ph.D.
Sun., 4/23 / 4:45-5pm	314 / Immunology/Microbiology (Presentation)	R07-R08: Metabolic perturbations during the progression of retinal degenerative disease	Katherine Wert, Ph.D.
Mon., 4/24 / 11:30am-1:15pm	94 / Cornea (Poster)	B0433: Investigating transcriptional differences in mechanotransductive and ECM related genes in cultured primary corneal keratocytes and myofibroblasts	Krithika Iyer
Mon., 4/24 / 11:30am-1:15pm	95 / Cornea (Poster)	B0465: The impact of IGFBP-3 on the NLRP3 inflammasome in aqueous deficient dry eye disease	Ian James Trautmann
Mon., 4/24 / 11:30am-1:15pm	90 / Retinal Cell Biology (Poster)	B0263: Herc3 mutations lead to prominent retinal microglial/macrophage activation and retinal degeneration	Yeshumenesh Zegeye, Ph.D.
Mon., 4/24 / 11:30am-1:15pm	90 / Retinal Cell Biology (Poster)	B0274: Cellular and molecular mechanisms governing myelin integrity in the visual system	Daniela Barbosa
Mon., 4/24 / 11:45am-11pm	78 / Immunology/Microbiology (Presentation)	243: Pseudomonas aeruginosa infection disrupts metabolic and mitochondrial homeostasis in the corneal epithelium	Rajalakshmy Ayilam Ramachandran, Ph.D.

Mon., 4/24 / 3:15-5pm	120 / Retinal Cell Biology (Poster)	C0057: Endogenous HiBiT tagging of CFH, HtrA1, and PEDF enables a sensitive and versatile approach for protein interrogation and high-throughput screening	Sophie DiCesare
Tues., 4/25 / 11:45am-12pm	154 / Cornea (Presentation)	Chronic IL-1 β -induced inflammation impairs mitophagy and enhances alternative metabolic pathways to promote cellular homeostasis in corneal epithelial cells	Jose Marcos Sanches, Ph.D.
Tues., 4/25 / 11:45am-1:30pm	172 / Retinal Cell Biology (Poster)	C0080: Optimizing primary porcine RPE cultures for genetic manipulation and high-throughput screening	Steffi Daniel, Ph.D.
Tues., 4/25 / 11:45am-1:30pm	175 / Clinical/Epidemiological Research (Poster)	C0190: Risk stratification of ocular emergencies using smartphone external photography	Richard Hession, M.D.
Tues., 4/25 / 11:45am-1:30pm	172 / Retinal Cell Biology (Poster)	C0089: Nlrp3 deficiency protects mice from the development of sub-RPE basal laminar deposits in a macular degeneration (R345W Efemp1) model	Antonio J. Ortega
Tues., 4/25 / 11:45am-1:30pm	175 / Clinical/Epidemiological Research (Poster)	C0232: Ophthalmologist turnover in the United States	Prem Patel
Tues., 4/25 / 11:45am-1:30pm	176 / Cornea (Poster)	C0273: Isolation of serum-derived extracellular vesicles from the secretome enhances the anti-inflammatory and wound-healing properties of autologous serum	Namita Saraf
Tues., 4/25 / 11:45am-1:30pm	173 / Biochemistry/Molecular Biology (Poster)	C0141: Investigating the impact of Soat1 inactivation on the mouse ocular phenotype	Amber Wilkerson
Tues., 4/25 / 3:30-5:15pm	204 / Retina (Poster)	C0482: Overexpression of PRDM13 leads to photoreceptor degeneration in a novel, inducible murine model	Emily Nettesheim
Tues., 4/25 / 3:30-5:15pm	200 / Cornea (Poster)	C0242: Desiccating stress induces inflammation and alters mitochondrial homeostasis in human corneal epithelial cells	Loubna M. Radwan, Ph.D.
Wed., 4/26 / 10:30am-12:15pm	218 / Retinal Cell Biology (Poster)	B0157: Non-redundant role of a zinc-metallopeptidase in retinal homeostasis	Dogan Can Kirman, Ph.D.
Wed., 4/26 / 10:30am-12:15pm	250 / Retina (Poster)	B0242: Clinical course and outcomes of bacterial and fungal endogenous endophthalmitis	Krista Thompson

Wed., 4/26 / 10:30am-12:15pm	218 / Retinal Cell Biology (Poster)	B0170: The role and regulation of the unfolded protein response by Fic-mediated AMPylation in the RhoP23H mouse model of retinitis pigmentosa	Tiffany Yee
Wed., 4/26 / 2:15-4pm	250 / Retina (Poster)	B0221: Impact of clinical presentation on surgical outcomes in patients undergoing pars plana vitrectomy for complications of proliferative diabetic retinopathy	Ahmed Alshaikhsalama
Wed., 4/26 / 2:15-4pm	251 / Cornea (Poster)	C0065: Characterization of differential gene expression patterns during corneal fibroblast migration in vivo	Katherine Borner
Wed., 4/26 / 2:15-4pm	248 / Biochemistry/Molecular Biology (Poster)	B0009: Low level glycogen synthase kinase 3 (GSK3) inhibition broadly reduces extracellular matrix protein production and pathology associated with a juvenile macular dystrophy	John D. Hulleman, Ph.D.
Wed., 4/26 / 2:15-4pm	251 / Cornea (Poster)	C0060: Differential gene expression patterns between cultured corneal keratocytes, fibroblasts, and myofibroblasts	Kara Poole
Thurs., 4/27 / 12:45-2:30pm	302 / Retinal Cell Biology (Poster)	B0180: The role of Lipe in lipid metabolism in the retina	Seher Yuksel, Ph.D.