

ARVO 2018

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Session

- ★ B0128: The Effects of Prostaglandin Intra-Ocular Pressure Lowering Agents (Glaucoma Eye Drops) on Human Meibomian Gland Epithelial Cells
Ahmad Aref [view session](#)
Location: Exhibit HallPosterboard Number: B0128Abstract
- ★ B0029: Reducing Adenoviral Patient Infected Days (RAPID): Prevalence of Polymerase Chain Reaction (PCR) Confirmed Adenovirus Among Patients Presenting With Acute Conjunctivitis
Mary Migneco [view session](#)
Location: Exhibit HallPosterboard Number: B0029Abstract
- ★ C0015: Reducing Adenoviral Patient Infected Days (RAPID) Study: Success in Masking Subjects and Clinicians From Identifying Treatment with Ophthalmic Povidone-Iodine 5% (PVP-I).
Meredith Whiteside [view session](#)
Location: Exhibit HallPosterboard Number: C0015Abstract
- ★ C0081: Pre-clinical efficacy of OCU300 nanoemulsion for the treatment of ocular graft versus host disease (oGVHD).
Rasappa Arumugham [view session](#)
Location: Exhibit HallPosterboard Number: C0081Abstract
- ★ A0178: Comparison of Visual and Anatomic Outcomes of Eyes Undergoing Type I Boston Keratoprosthesis with Combination Pars Plana Vitrectomy to Eyes without Combination Vitrectomy
Jennifer Lim [view session](#)
Location: Exhibit HallPosterboard Number: A0178Abstract
- ★ Extracellular Vesicles and the Anterior Segment
Dimitri Azar, Dimitrios Karamichos, Yutao Liu, Brian McKay, James Zieske [view session](#)
Location: Room 312Abstract Author Block: *Dimitrios Karamichos, *
- ★ Quantitative OCT angiography for computer-aided classification of diabetic retinopathy
Minhaj Nur Alam [view session](#)
Location: Ballrooms BCPresentation Number: 1224Abstract
- ★ B0129: Training of residents and fellows in retinopathy of prematurity (ROP) around the world: an international web-based survey
Tala Al-Khaled [view session](#)
Location: Exhibit HallPosterboard Number: B0129Abstract
- ★ A0061: Quantification of amyloid-beta in eye tissues of APP^{swe}/PS1 Δ E9 mice
Wangfei Wang [view session](#)
Location: Exhibit HallPosterboard Number: A0061Abstract
- ★ B0128: Evaluation of birth weight and gestational age in infants with treatment requiring retinopathy of prematurity in ROPE-SOS trial
Nita Valikodath [view session](#)
Location: Exhibit HallPosterboard Number: B0128Abstract
- ★ B0127: Screening Criteria for Retinopathy of Prematurity in Ulaanbaatar, Mongolia
Shelbi Olson [view session](#)
Location: Exhibit HallPosterboard Number: B0127Abstract

- ★ Artificial intelligence in retinopathy of prematurity: clinical validation of a fully automated deep learning system (i-ROP DL) for plus disease diagnosis
J. Peter Campbell [view session](#)
Location: Room 313A Presentation Number: 3936 Abstract Au
- ★ Combined corneal transplant, glaucoma drainage implantation and pars-plana vitrectomy outcomes in a pediatric population
Kelley Bohm [view session](#)
Location: Room 312 Presentation Number: 1574 Abstract Aut
- ★ A0188: Clinical and Anatomic Outcomes of Phacovitrectomy Surgery in Proliferative Diabetic Retinopathy
Talisa de Carlo [view session](#)
Location: Exhibit Hall Posterboard Number: A0188 Abstract
- ★ B0011: The relationship between intraocular pressure and central corneal thickness in pediatric ocular hypertensive suspects.
Mehmet Mocan [view session](#)
Location: Exhibit Hall Posterboard Number: B0011 Abstract
- ★ C0164: Longitudinal Study of Peripapillary and Temporal Macular Thinning in Sickle-Cell Hemoglobinopathies
Alisa Thavikulwat [view session](#)
Location: Exhibit Hall Posterboard Number: C0164 Abstract
- ★ Semaphorin3A induces nerve regeneration in the adult cornea—a switch from its repulsive role in development.
Victor Guaiquil [view session](#)
Location: Room 310 Presentation Number: 4418 Abstract Aut
- ★ A0331: A holographic waveguide based eye tracking device
changgeng liu [view session](#)
Location: Exhibit Hall Posterboard Number: A0331 Abstract
- ★ B0134: Whole exome sequencing of phenotypically extreme preterm infants identifies innate immune system-related biological pathways in retinopathy of prematurity
Sang Jin Kim [view session](#)
Location: Exhibit Hall Posterboard Number: B0134 Abstract
- ★ C0086: Oncostatin M (OSM) Contributes to Corneal Epitheliopathy in Tear Deficient Dry Eye Disease due to Chronic ocular Graft-Vs-Host Disease (oGVHD)
Christine Mun [view session](#)
Location: Exhibit Hall Posterboard Number: C0086 Abstract
- ★ C0087: Sub-Anticoagulant Dose Heparin is a Potential Therapy for Tear Deficient Dry Eye Disease in patients with ocular Graft-Vs-Host Disease (oGVHD).
SEUNGWON AN [view session](#)
Location: Exhibit Hall Posterboard Number: C0087 Abstract
- ★ A0335: Reactivation of herpes zoster ophthalmicus following live varicella zoster virus vaccination
Dana Darwish [view session](#)
Location: Exhibit Hall Posterboard Number: A0335 Abstract
- ★ C0318: Neutrophil Extracellular Traps (NETs) in Patients with Dry Eye Disease Secondary to ocular Graft-vs-Host-Disease (oGVHD): Pathological Consequences and Therapeutic Implications
Sandeep Jain [view session](#)
Location: Exhibit Hall Posterboard Number: C0318 Abstract

- ★ B0173: Early Diagnosis and Management of Aggressive Posterior Neonatal Vitreoretinopathy Presenting in Premature Neonates
Samir Patel [view session](#)
Location: Exhibit HallPosterboard Number: B0173Abstract
- ★ Homozygous Mutation in the ELMO3 Gene with Keratoconus
Mariam Khaled [view session](#)
Location: Room 312Presentation Number: 743Abstract Auth
- ★ B0090: SCOPE study: Comparing severity of dry eye symptoms in keratoconus patients using corneal gas permeable lenses versus scleral lenses
Ellen Shorter [view session](#)
Location: Exhibit HallPosterboard Number: B0090Abstract
- ★ B0364: Aflibercept-loaded Microsphere-hydrogel Drug Delivery System in a Nonhuman Primate Model
Jennifer Kang-Mieler [view session](#)
Location: Exhibit HallPosterboard Number: B0364Abstract
- ★ B0066: Stop and stabilize β -amyloid: a novel bimodal approach for prevention of β -amyloid aggregation and toxicity
Indre Bielskus [view session](#)
Location: Exhibit HallPosterboard Number: B0066Abstract
- ★ B0068: CD36 Ligand Beta-Amyloid Promotes Coagulation and Inflammation Through Toll-Like Receptor 4
Nicholas Pfahler [view session](#)
Location: Exhibit HallPosterboard Number: B0068Abstract
- ★ A0242: Longitudinal Data in Ophthalmic Imaging: Curation and Annotation
Joelle Hallak [view session](#)
Location: Exhibit HallPosterboard Number: A0242Abstract
- ★ A0123: Amyloid- β , a sticky conundrum in POAG, AD, and AMD
Thomas Cronin [view session](#)
Location: Exhibit HallPosterboard Number: A0123Abstract
- ★ B0047: Flip or Flop: Calcium activated chloride channel in the phosphatidylserine flip: Superactivated platelets and POAG
James Haney [view session](#)
Location: Exhibit HallPosterboard Number: B0047Abstract
- ★ B0277: A Genome-Wide Association Study of Optic Disc Area in Latinos
Shizuka Tomatsu [view session](#)
Location: Exhibit HallPosterboard Number: B0277Abstract
- ★ B0048: Increased optic nerve cupping as a marker for cognitive decline: the Women's Health Initiative (WHI)
Thasarat Vajaranant [view session](#)
Location: Exhibit HallPosterboard Number: B0048Abstract
- ★ B0140: Influence of serial retinal images on the diagnosis and management of retinopathy of prematurity (ROP)
Shin Hae Park [view session](#)
Location: Exhibit HallPosterboard Number: B0140Abstract
- ★ B0093: SCOPE study: Experience of keratoconus patients wearing RGP or Scleral lenses

- Cherie Nau [view session](#)
Location: Exhibit HallPosterboard Number: B0093Abstract
- ★ B0155: The Retinopathy of Prematurity - Save Our Site Program: Analysis of Gender and Socioeconomic Status in a ROP Telemedicine Program in Southern India
Flavius Beca [view session](#)
Location: Exhibit HallPosterboard Number: B0155Abstract
- ★ B0361: Efficacy of a Biodegradable Aflibercept-loaded Microsphere-Hydrogel Drug Delivery System in a Laser-induced Choroidal Neovascularization Rat Model
Wenqiang Liu [view session](#)
Location: Exhibit HallPosterboard Number: B0361Abstract
- ★ Automated Computer-Based Image Analysis in Monitoring Disease Progression for Retinopathy of Prematurity
Stanford Taylor [view session](#)
Location: Room 313APresentation Number: 3937Abstract Au
- ★ A0326: Miniaturized indirect ophthalmoscopy for nonmydriatic wide-field fundus photography
devrim toslak [view session](#)
Location: Exhibit HallPosterboard Number: A0326Abstract
- ★ C0078: Thirty-minute ocular application of benzalkonium chloride (BAK) leads to a disappearance of neuronal spikes associated with a marked fragmentation of tight junctions and corneal nerves in rodents: implications for dry eye disease.
Evguenia Ivakhnitskaia [view session](#)
Location: Exhibit HallPosterboard Number: C0078Abstract
- ★ A0004: Targeting Nodal/TGF- β pathway to inhibit invasion and growth of retinoblastoma
Laura Asnaghi [view session](#)
Location: Exhibit HallPosterboard Number: A0004Abstract
- ★ C0326: Biomarkers of diabetic retinopathy based on dynamic fluorescein angiography in control and diabetic patients
William Mieler [view session](#)
Location: Exhibit HallPosterboard Number: C0326Abstract
- ★ B0278: Light-induced length shrinkage of photoreceptor outer segment
Yiming Lu [view session](#)
Location: Exhibit HallPosterboard Number: B0278Abstract
- ★ B0160: Retinopathy of prematurity: Preferred practice patterns among pediatric ophthalmologists
samiksha fouzdar jain [view session](#)
Location: Exhibit HallPosterboard Number: B0160Abstract
- ★ C0013: Corneal Ectasia Associated with Post-Operative Hypotony
Kai Kang [view session](#)
Location: Exhibit HallPosterboard Number: C0013Abstract
- ★ A0232: Melanopsin contributions to image forming vision in humans
Andrew Zele [view session](#)
Location: Exhibit HallPosterboard Number: A0232Abstract
- ★ B0159: Evaluation of birth weight and gestational age of children at risk of developing retinopathy of prematurity (ROP) in the imaging and informatics for ROP research consortium (i-ROP)
Daniel Oh [view session](#)
Location: Exhibit HallPosterboard Number: B0159Abstract

- ★ A0220: Development, Implementation, and Evaluation of a Pre-Residency Vitreoretinal Curriculum for Ophthalmology Residents Using the American Academy of Ophthalmology's Ophthalmology News and Education Network
Robison Chan [view session](#)
Location: Exhibit HallPosterboard Number: A0220Abstract
- ★ A0293: Relationship Between Retinal Vessel Tortuosity and Oxygenation in Normal Control and Sickle Cell Retinopathy Subjects
Maziyar M Khansari [view session](#)
Location: Exhibit HallPosterboard Number: A0293Abstract
- ★ A0233: Melanopsin interacting with the cone-mediated white noise electroretinogram (wnERG)
Prakash Adhikari [view session](#)
Location: Exhibit HallPosterboard Number: A0233Abstract
- ★ A0096: Quantitative Optical Coherence Tomography Angiography Parameters in Central Retinal Vein Occlusion
Sarwar Zahid [view session](#)
Location: Exhibit HallPosterboard Number: A0096Abstract
- ★ A0158: Relationship between retinal nerve fiber layer thickness, optic nerve cup to disc ratio, and intraocular pressure in pediatric glaucoma suspects
Lindsay Machen [view session](#)
Location: Exhibit HallPosterboard Number: A0158Abstract
- ★ B0161: Application of a Quantitative Image Analysis Scale Using Deep Learning for Detection of Clinically Significant ROP
Travis Redd [view session](#)
Location: Exhibit HallPosterboard Number: B0161Abstract
- ★ C0408: The role of Staphylococcus aureus alpha-toxin on corneal epithelial wound healing
Ilham Putra [view session](#)
Location: Exhibit HallPosterboard Number: C0408Abstract
- ★ The Effect of Corneal-Derived Versus Bone Marrow-Derived Mesenchymal Stromal Cell Secretome on Corneal Epithelial Wound Healing
Medi Eslani [view session](#)
Location: Room 310Presentation Number: 4421Abstract Aut
- ★ C0367: The effects of brimonidine on human Meibomian gland epithelial cells
Alexander Pleet [view session](#)
Location: Exhibit HallPosterboard Number: C0367Abstract
- ★ B0020: Heparanase upregulation in human corneal tissues infected with herpes simplex virus type 1
Ann-Marie Lobo [view session](#)
Location: Exhibit HallPosterboard Number: B0020Abstract
- ★ A0106: Initial Loss of Interdigitation Zone on OCT following CRVO May Predict Future Visual Acuity Improvement.
Wyatt Messenger [view session](#)
Location: Exhibit HallPosterboard Number: A0106Abstract
- ★ A0263: Does Cosmetic Related Lacrimal Sac Pigmentation Play a Role in Chronic Dacryocystitis?
Fatimah Alhammad [view session](#)
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- ★ C0139: Pertussis Toxin Sensitive Wound Healing Effects of Histatin Peptides in Corneal Epithelia
Dhara Shah [view session](#)
Location: Exhibit HallPosterboard Number: C0139Abstract
- ★ A0261: Self-Adhering Magnetic Device to Treat Corneal Exposure
Safwan Tayeb [view session](#)
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- ★ A0270: Non-coding RNA Expression in Inflammatory Dacryoadenitis
Marwan Ali [view session](#)
Location: Exhibit HallPosterboard Number: A0270Abstract
- ★ C0173: Proangiogenic role of MMP14 on vascular endothelial cells: selective degradation of VEGFR1 during angiogenesis
Kyuyeon Han [view session](#)
Location: Exhibit HallPosterboard Number: C0173Abstract
- ★ C0142: Histatins abrogate corneal epithelial toxicity
Vinay Aakalu [view session](#)
Location: Exhibit HallPosterboard Number: C0142Abstract
- ★ C0143: Histatin peptide localization and effects on immune signaling in human corneal epithelium
Sushma Kalmodia [view session](#)
Location: Exhibit HallPosterboard Number: C0143Abstract
- ★ B0250: First Peak Fractal Analysis of Optical Coherence Tomography Angiography in Eyes with Papilledema
Akash Gupta [view session](#)
Location: Exhibit HallPosterboard Number: B0250Abstract
- ★ Role of Human Corneal Mesenchymal Stromal Cell-derived Exosomes in Corneal Epithelial Wound Healing.
Ravand Samaeekia [view session](#)
Location: Room 312Presentation Number: 3454Abstract Aut
- ★ A0121: Ocular Fornix Reconstruction prior to Combined Boston Keratoprosthesis (KPro) and Glaucoma Drainage Impant (GDI) Surgery.
Faris Karas [view session](#)
Location: Exhibit HallPosterboard Number: A0121Abstract
- ★ B0023: Characteristics of Recurrent Retroprosthetic Membranes Following Boston Keratoprosthesis Type 1 Implantation
Taylor Starnes [view session](#)
Location: Exhibit HallPosterboard Number: B0023Abstract
- ★ B0075: Visual Outcomes with Scleral Lenses: a SCOPE Study
Jennifer Harthan [view session](#)
Location: Exhibit HallPosterboard Number: B0075Abstract
- ★ Polygenic risk score is associated with intraocular pressure and improves glaucoma prediction in the UK Biobank cohort
X. Raymond Gao [view session](#)
Location: Room 316BPresentation Number: 779Abstract Aut
- ★ A0208: Clinical and Anatomic Outcomes of Combined Phacovitrectomy Surgery
Shilpa Gulati [view session](#)
Location: Exhibit HallPosterboard Number: A0208Abstract

- ★ B0181: Monitoring response to treatment in severe retinopathy of prematurity using a deep learning based quantitative severity scale
Kishan Gupta [view session](#)
Location: Exhibit HallPosterboard Number: B0181Abstract
- ★ A0212: Posterior-involving open-globe injury prognostic factors and outcomes
Levi Kanu [view session](#)
Location: Exhibit HallPosterboard Number: A0212Abstract
- ★ B0289: Evaluation of clinical factors related to amblyopia treatment that influence visual outcomes following cataract extraction in pediatric patients
Omar Hassan [view session](#)
Location: Exhibit HallPosterboard Number: B0289Abstract
- ★ C0188: Diagnostic sensitivity of Ultrasound Biomicroscopy (UBM) in identifying Clinical Aqueous Misdirection Syndrome
Mona Khurana [view session](#)
Location: Exhibit HallPosterboard Number: C0188Abstract
- ★ C0167: ATP-induced alterations in extracellular H⁺: a potent potential mechanism for modulation of neuronal signals by Müller (glial) cells in the vertebrate retina.
Robert Malchow [view session](#)
Location: Exhibit HallPosterboard Number: C0167Abstract
- ★ B0151: Artificial intelligence in retinopathy of prematurity (ROP): diagnostic performance of a supervised machine learning system (i-ROP ASSIST)
Susan Ostmo [view session](#)
Location: Exhibit HallPosterboard Number: B0151Abstract
- ★ Artificial intelligence in retinopathy of prematurity: development of a fully automated deep convolutional neural network (DeepROP) for plus disease diagnosis
James Brown [view session](#)
Location: Room 313APresentation Number: 3938Abstract Au
- ★ B0255: Relating Retinal Blood Flow and Vessel Density in Sickle Cell Retinopathy
Shayan Farzad [view session](#)
Location: Exhibit HallPosterboard Number: B0255Abstract
- ★ B0146: Risk assessment in retinopathy of prematurity: improvement of clinical models using automated image analysis
Jayashree Kalpathy-Cramer [view session](#)
Location: Exhibit HallPosterboard Number: B0146Abstract
- ★ B0331: Ocular Findings in Osteogenesis Imperfecta: An Ophthalmologist Eye Survey
Felix Chau [view session](#)
Location: Exhibit HallPosterboard Number: B0331Abstract
- ★ Characterization of Injury-induced Corneal Angiogenesis and Lymphangiogenesis in Prox1-GFP/Flt1-dsRed Transgenic Mice
Jin-Hong Chang [view session](#)
Location: Room 312Presentation Number: 2578Abstract Aut
- ★ Targeting Akt phosphorylation by a small molecule inhibitor generates an effective strategy to curb corneal herpes simplex virus type-1 infection
Deepak Shukla [view session](#)
Location: Room 301ABPresentation Number: 4931Abstract A

- ★ C0335: Assessment of Retinal Vessel Tortuosity and Oxygenation in African Americans at Stages of Diabetic Retinopathy
Sarah Garvey [view session](#)
Location: Exhibit HallPosterboard Number: C0335Abstract
- ★ C0046: Quantitative Analysis of OCT Angiography findings in Birdshot Chorioretinopathy
Alejandra Maiz [view session](#)
Location: Exhibit HallPosterboard Number: C0046Abstract
- ★ A0099: Adherence to medical treatment in childhood glaucoma.
DEEPAK EDWARD [view session](#)
Location: Exhibit HallPosterboard Number: A0099Abstract
- ★ Synergistic corneal wound healing effects of human mesenchymal stem cell secreted factors and hyaluronic acid-based viscoelastic gel
Gabriella Rogers [view session](#)
Location: Room 312Presentation Number: 2989Abstract Aut
- ★ C0423: Suppression of alkali burn-induced corneal injury by mesenchymal stem cells encapsulated within crosslinked collagen gels
Kyung-Sun Na [view session](#)
Location: Exhibit HallPosterboard Number: C0423Abstract
- ★ OCTA-guided functional OCT imaging of retinal neural activation and hemodynamic response
Taeyoon Son [view session](#)
Location: Room 313APresentation Number: 1974Abstract Au
- ★ A0221: Filtering effect of progressive-scan displays on pERG response waveforms.
Shresta Patangay [view session](#)
Location: Exhibit HallPosterboard Number: A0221Abstract
- ★ C0152: Exosomes from corneal mesenchymal stem cells modulate the immunophenotype of macrophages
Ali Djalilian [view session](#)
Location: Exhibit HallPosterboard Number: C0152Abstract
- ★ B0143: Artificial intelligence in retinopathy of prematurity: identification of clinically significant retinal vascular findings using computer-based image analysis
Michael Chiang [view session](#)
Location: Exhibit HallPosterboard Number: B0143Abstract
- ★ A0127: Assessment of Quantitative Optical Coherence Tomography Angiography Parameters in Branch Retinal Vein Occlusion and Monitoring Response to Treatment
Judy Chen [view session](#)
Location: Exhibit HallPosterboard Number: A0127Abstract
- ★ A0219: Evaluation of a Contact Lens Electrode Incorporating a Light Diffusing Element
John Hetling [view session](#)
Location: Exhibit HallPosterboard Number: A0219Abstract
- ★ B0029: Nailfold Hemorrhages in Primary Open-Angle Glaucoma: Systemic Differences in African American and Caucasian Patients
Paul Knepper [view session](#)
Location: Exhibit HallPosterboard Number: B0029Abstract
- ★ B0141: Deep Learning for Image Quality Assessment of Fundus Images in Retinopathy of Prematurity

Aaron Coyner

Location: Exhibit HallPosterboard Number: B0141Abstract

[view session](#)

Speaker

- ★ Vinay Aakalu [view online](#)
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- ★ Anna Ahn [view online](#)
University of Illinois at Chicago
- ★ Marwan Ali [view online](#)
University of Illinois at Chicago
- ★ SEUNGWON AN [view online](#)
University of Illinois at Chicago
- ★ Andrea Arteaga [view online](#)
University of Illinois at Chicago
- ★ Laura Asnaghi [view online](#)
Johns Hopkins University
- ★ Dimitri Azar [view online](#)
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- ★ Joseph Baker [view online](#)
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- ★ Indre Bielskus [view online](#)
University of Illinois at Chicago
- ★ Norman Blair [view online](#)
University of Illinois at Chicago
- ★ Kelley Bohm [view online](#)
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- ★ Robison Chan [view online](#)
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- ★ Rachana Mishra [view online](#)
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- ★ Jieun Kwon [view online](#)
University of Illinois at Chicago
- ★ Damiano Rondelli [view online](#)
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- ★ Alexander Pleet [view online](#)
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- ★ Safwan Tayeb [view online](#)
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- ★ Arun Balasubramaniam [view online](#)
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- ★ Kyung-No Son [view online](#)
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