

ANNUAL GIFFORD-TRUHLSEN CONFERENCE

# Clinical and Translational Advancements in Ophthalmology and Visual Sciences



## Thursday, June 9

1:30 p.m.	Registration / Exhibits
Moderators: Bhavana Chhunchha, PhD and Steven Yeh, MD	
2:00	<b>Welcome and Introductions</b> Ronald R. Krueger, MD; Steven Yeh, MD; Gifford-Truhlsen Conference Planning Committee
2:15	<b>Smartphone Imaging in Retinopathy of Prematurity (ROP) Screening</b> William Wagner, MD
2:30	<b>Ophthalmic Surveillance in Systemic Illness in Childhood: Ebola Virus Disease and Beyond</b> Tolulope Fashina, MD, MPH
3:00	<b>Judy and C. David Fritch, MD Keynote Lecture</b> Development of Global Ophthalmology in a University-Based Practice ROP: Old Ideas and New Management Algorithms R.V. Paul Chan, MD, MSc, MBA, FACS
3:45	Break / Exhibits
4:00	<b>Translational Research in Ocular Melanoma</b> Jae Hyuk Yoo, PhD
4:15	<b>What's New in Ocular Oncology</b> Pukhraj Rishi, MBBS, MS, FACS, FASRS
4:30	<b>Periocular and Orbital Trauma: When to Operate and When to Not</b> Rao V. Chundury, MD
4:45	<b>Human Retinal Ganglion Cell Response to Intra-Retinal Guidance Cues</b> Murali Subramani, PhD
5:00	Reception
6:30	Adjourn

## Friday, June 10

7:30 a.m.	Registration / Breakfast / Exhibits
Moderator: Rao V. Chundury, MD	
8:00	<b>Welcome and Introductions</b> Ronald R. Krueger, MD; Steven Yeh, MD; Gifford-Truhlsen Conference Planning Committee
8:15	<b>Primary Phakic Intraocular Lens Implantation/Rotation in Eyes with Iridociliary Cysts</b> Brian K. Armstrong, MD
8:30	<b>Customized Laser-Assisted in Situ Keratomileusis (LASIK) vs. Small Incision Lenticule Extraction (SMILE) vs. Implantable Collamer Lens (ICL) for Vision Correction</b> Ronald R. Krueger, MD
8:45	<b>Microglia in the Brain During Glaucoma</b> Jennifer Thompson

## CONFERENCE FACULTY

### Conference Director

#### Steven Yeh, MD

Professor; Stanley Truhlsen Jr. Endowed Chair in Ophthalmology; Director, Retina and Uveitis Service, Department of Ophthalmology & Visual Sciences, UNMC

### Keynote Speakers

#### R.V. Paul Chan, MD, MSc, MBA, FACS

Head, Department of Ophthalmology, The John H. Panton Professor of Ophthalmology, Director, Pediatric Retina and Retinopathy of Prematurity Service Co-Director, Vitreoretinal Fellowship Program, University of Illinois College of Medicine, Chicago, IL

#### Richard D. Dix, PhD

Professor, Department of Biology, Georgia State University, Atlanta, GA

#### Aaron Y. Lee, MD, MSCI

C. Dan and Irene Hunter Endowed Professorship; Assistant Professor, Department of Ophthalmology, University of Washington Medical Center, Seattle, WA

#### Cecilia Lee, MD, MS

Associate Professor; Director of Clinical Research, Department of Ophthalmology, University of Washington Medical Center, Seattle, WA

### Faculty

#### Colby Argo, MD

House Officer IV, Department of Ophthalmology & Visual Sciences, UNMC

#### Brian K. Armstrong, MD

Staff Physician, Eye Institute at Cleveland Clinic, Abu Dhabi, United Arab Emirates

#### Elizabeth Bierlein

Graduate Research Assistant, Department of Pharmacology & Experimental Neuroscience, UNMC

#### Bhavana Chhunchha, PhD

Assistant Professor, Department of Ophthalmology & Visual Sciences, UNMC

#### Rao V. Chundury, MD

Assistant Professor, Department of Ophthalmology & Visual Sciences, UNMC

#### Christopher D. Conrady, MD, PhD

Assistant Professor, Department of Ophthalmology & Visual Sciences, UNMC

9:00	<b>Stanley M. Truhlsen, MD Memorial Keynote Lecture</b> Connecting the Dots Between the Aging Eyes and the Aging Brain Cecilia Lee, MD, MS
9:45	Break / Exhibits
10:00	Roles of Neurotrophins in the Development of Retinal Projections to the Brain Elizabeth Bierlein
10:15	Aqueous Humor Dynamics Across the Lifetime: Basic Principles and Clinical Care Carol B. Toris, PhD, FARVO, FAOPT
10:30	Preservation of Antioxidant Defense Pathway in the Regulatory Effect of Metformin on Cataract Prevention Bhavana Chhunchha, PhD
10:45	Alzheimer's Disease and Visual System Function Shaylah McCool
11:00	<b>Bernstein-Kroon Memorial Keynote Lecture</b> Animal Models of Viral Retinitis Richard D. Dix, PhD
11:45	Uveitis from Bench to Bedside Christopher D. Conrady, MD, PhD
12:00 p.m.	Lunch / Exhibits
Moderator: Christopher D. Conrady, MD, PhD	
1:00	<b>Gifford Memorial Keynote Lecture</b> Applications of Artificial Intelligence and Deep Learning for Ophthalmology Aaron Y. Lee, MD, MSCI
1:45	Electrophysiology of the Retina: Lessons Learned in Mice and Men Wallace B. Thoreson, PhD
2:00	Epithelial-Mesenchymal Transition (EMT): The Key Adverse Signaling in Ocular Fibrotic Disorders Dhaval Shukal, PhD
2:15	<b>Panel Discussion</b> Artificial Intelligence and Ophthalmology Moderator: Steven Yeh, MD Panelists: R.V. Paul Chan, MD, MSc, MBA, FACS; Ronald R. Krueger, MD; Aaron Y. Lee, MD, MSCI; Cecilia Lee, MD, MS; and Paul Rychwalski, MD
2:45	Break / Exhibits
3:00	Cost Analysis of Reducing Perioperative Eye Drop Regimen in the VA Medical System Colby Argo, MD and Santi Karnam, MD
3:15	Navigating the Ophthalmic Surgical Gauntlet: Surgical Maneuvers to Avoid or Employ Renfeng Xu, MD, PhD
3:30	Innovative Therapies in the Management of Dry Eye Ana A. Morales, MD
3:45	Comparison of Multiple Intraocular Lens (IOL) Power Calculation Formulas Using Keratometric Data from a Scheimpflug Camera Versus Swept-Source Optical Coherence Tomography (OCT) Biometer Vinicius S. De Stefano, MD, PhD
4:00	Recurrent Retrobulbar Hemorrhage Associated with Continuous Positive Airway Pressure (CPAP) Use After Orbital Fracture Repair Christine Ryu, MD
4:15	Age-Related Macular Degeneration and Diabetic Retinopathy: Clinical Care Gaps, Novel Therapeutics and Drug Delivery Innovation Steven Yeh, MD
4:30	Adjourn

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Global Ophthalmic Health Program Coordinator, Department of Ophthalmology & Visual Sciences, UNMC

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McGaw Professor and Chair, Department of Ophthalmology & Visual Sciences; Director, Stanley M. Truhlsen Eye Institute, UNMC

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