11th Annual Gavin Herbert Eye Institute Colloquium
Advances and Controversies

Friday, Oct. 13 and Saturday, Oct. 14, 2017

PROGRAM DIRECTORS

Baruch D. Kuppermann, MD, PhD
UC Irvine School of Medicine

Sumit “Sam” Garg, MD
UC Irvine School of Medicine

GUEST FACULTY

Francis Mah, MD
Scripps Clinic

Alfredo Sadun, MD, PhD
Doheny Eye Institute

Steve Vold, MD
Vold Vision

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Mission Statement
Discover • Teach • Heal
Your Vision, Our Passion

Our Vision
Advancing the global standard for innovative vision care, research, and teaching

Achieving the Vision
This mission will be accomplished in cooperation with medical professionals, industry, and our community by:

• Giving patients the most advanced medical and surgical eye care
• Educating the finest ophthalmologists and researchers in the nation
• Pushing the boundaries of eye care research in collaboration with the medical industry and the community
Past Gavin Herbert Keynote Lecturers

2009
I. Howard Fine, MD

2010
Douglas D. Koch, MD

2011
Perry S. Binder, MD
David F. Chang, MD
Peter J. Donovan, PhD
Richard L. Lindstrom, MD
Kevin M. Miller, MD

2012
Robert A. Goldberg, MD
Edward J. Holland, MD
Stephen S. Lane, MD

2013
Mark S. Bluemkranz, MD, MMS
David R. Hardten, MD
Richard A. Lewis, MD

2014
Eric Donnenfeld, MD
Thomas W. Samuelson, MD

2015
Robert H. Osher, MD
Carmen Puliafito, MD, MBA

2016
Jay S. Duker, MD
Kerry D. Solomon, MD
Francis S. Mah, MD - 2017 Keynote Speaker
Scripps Clinic

Francis S. Mah, MD, graduated with honors from Dartmouth College, and at the top of his medical school class at the Medical College of Ohio (Toledo). He completed his residency in ophthalmology at the University of Pittsburgh where he was elected chief resident. His fellowship in cornea and refractive surgery was also completed at the University of Pittsburgh.

Dr. Mah is currently the Director of Cornea and External Disease and the Co-Director, Refractive Surgery at Scripps Clinic Medical Group in La Jolla, CA. He was most recently an Associate Professor in both the Department of Ophthalmology and in the Department of Pathology as well as the Medical Director of the Charles T. Campbell Ophthalmic Microbiology Laboratory, and the Director of the Clinical Vision Research Center for all clinical trials at the University of Pittsburgh School of Medicine in Pittsburgh, PA. He was also the Director of the Cornea Service, and the Cornea and Refractive Surgery Fellowship while at the University of Pittsburgh, and the residency site director at the VA Pittsburgh Healthcare System. He believes in using the latest techniques to treat each patient with compassion and respect, just as though they were members of his own family. Dr. Mah has special clinical interests in corneal diseases and infections.

American Society of Cataract and Refractive Surgeons (ASCRS):
- ASCRS Chief, Infectious Disease Task Force 2006 – recommendations for ESCRS POE Study
- ASCRS Immediate Use Sterilization Task Force member since 2006
- ASCRS FDA committee member since 2006
- ASCRS Corneal Clinical Committee since 2007
- ASCRS Chair, Corneal Clinical Committee 2017

Ocular Microbiology and Immunology Group (OMIG):
- Executive Vice President – 5 years, grew budget and membership, since 2012

American Academy of Ophthalmology (AAO):
- AAO Councilor 2009-2012
- AAO Cornea PPP Panel Member since 2008
- AAO Cornea PPP Co-Chair 2017
- AAO Subspecialty Day Advisory Committee since 2013

San Diego Eye Bank Board of Director 2012

Distinguished Service Award from the American Academy of Ophthalmology - 2012
Alfredo A. Sadun, MD, PhD holds the Flora L. Thornton Endowed Chair at Doheny Eye Centers-UCLA and is Vice- Chair of Ophthalmology at UCLA. Dr. Sadun graduated from MIT (1972), completed his PhD and MD, and then a residency in Ophthalmology at Harvard Medical School, and followed by a fellowship in Neuro-Ophthalmology. He joined the full-time faculty at Harvard, Department of Ophthalmology in 1983. He helped lead Doheny in its transition to UCLA in 2014.

Dr. Sadun actively pursues and has received the greatest distinction in all three of the classical academic missions. His research in vision was honored by the lifetime achievement award given by Lighthouse International, with the Pisart Award; his contributions to residency teaching in ophthalmology were honored by the AAO and AUPO with their highest award for education, the Straatsma Prize. Dr. Sadun received the Hoyt Award, the highest prize offered in clinical neuro-ophthalmology by the AAO. Dr. Sadun has been recognized as an international authority in neuro-ophthalmology and especially diseases of the optic nerve. He has published about 320 peer-reviewed articles, 70 book chapters and co-authored or edited four books (H-index 50). He received funding from the NIH for over 25 years and holds five patents.
Steven D. Vold, MD - 2017 Keynote Speaker  
Founder, Vold Vision

Steven D. Vold, MD, certified by the American Board of Ophthalmology, specializes in the diagnosis and management of glaucoma and cataracts. Dr. Vold provides the most advanced medical, laser, and surgical care available for treating glaucoma. He also is an award-winning cataract and glaucoma surgeon. His special interests include glaucoma and cataract surgery innovation, management of complex glaucoma and cataract cases, secondary intraocular lens surgery and bladeless corneal refractive surgery.

Dr. Vold is a graduate of the University of Minnesota Medical School in Minneapolis. His internship at the Marshfield Clinic and St. Joseph’s Hospital in Wisconsin was followed by an ophthalmology residency and a fellowship in glaucoma at Northwestern University Medical School in Chicago. He has been awarded numerous scholarships and academic awards.

Dr. Vold founded Vold Vision after previously serving as Vice Chairman of the Department of Ophthalmology, Director, Division of Glaucoma and Assistant Professor in the Department of Ophthalmology and Surgery at the Scott and White Eye Institute and Texas A&M College of Medicine in Temple, Texas. At Scott and White, he was also Director of the Center for Ophthalmic Advancement. He has been listed in the Consumers Research Council of America’s Guide to America’s Top Ophthalmologists every year since 2002. He currently serves as Chief Medical Editor of Glaucoma Today, the leading national glaucoma publication for physicians, and co-founded the American-European Congress of Ophthalmic Surgery. Dr. Vold also co-founded the Silicon Valley based ophthalmic device company Ocunetics, Inc., whose intellectual property was exclusively licensed by IRIDEX Corporation in 2011.

Dr. Vold has published extensively in medical journals, and is a popular lecturer both nationally and internationally. He participates in FDA clinical trials related to both glaucoma and cataract management. He is a member of the American Academy of Ophthalmology, American Society of Cataract and Refractive Surgery, Association for Research in Vision and Ophthalmology, American Glaucoma Society, American-European Congress of Ophthalmic Surgery and Alpha Omega Alpha Honor Medical Society.
Baruch (Barry) Kuppermann, MD, PhD  
Chair & Director, Gavin Herbert Eye Institute  
Professor, Vitreoretinal Surgery

Dr. Baruch Kuppermann is Professor and Chair of the Department of Ophthalmology, and Director, Gavin Herbert Eye Institute, UC Irvine. Dr. Kuppermann also holds a joint appointment with the UCI Department of Biomedical Engineering. Dr. Kuppermann’s laboratory research focuses on assessing the toxicity of drugs on retinal cells in culture.

He is involved in many multicenter clinical drug trials as a principal investigator evaluating new drugs for the treatment of retinal diseases, and has served as the national leader of numerous multi-centered clinical trials. Dr. Kuppermann is an active teacher and lecturer, and is the director of the UCI retina fellowship program. He has published over 200 articles in the medical literature, and over 50 book chapters. Dr. Kuppermann is a highly regarded clinician and surgeon. He has an active clinical practice focusing on the treatment of retinal conditions such as diabetic retinopathy and age-related macular degeneration, as well as surgical conditions such as retinal detachments, macular holes, and epiretinal membranes. Dr. Kuppermann sees patients at the Gavin Herbert Eye Institute in Irvine and the Pavilion 2 at UCI Medical Center in Orange.

Sumit (Sam) Garg, MD  
Medical Director, Gavin Herbert Eye Institute  
Associate Clinical Professor, Cataract, External Disease/Corneal & Refractive Surgery  
Vice Chair, Clinical Ophthalmology

Dr. Sumit (Sam) Garg is Vice Chair of Clinical Ophthalmology, Medical Director, and an Associate Professor in Cataract, Refractive, External Disease and Corneal Surgery at the Gavin Herbert Eye Institute at the UC Irvine. Dr. Garg participates in numerous research projects, many of which he has presented at national and international meetings. Dr. Garg is actively participating in research related to the use of lasers in corneal transplantation, collagen cross-linking for keratoconus, and dry eye disease. He has been invited to lecture at meetings and symposia locally, nationally and internationally. In addition to his research activities, Dr. Garg has authored numerous book chapters including chapters on LASIK, ophthalmic imaging, and corneal transplantation.

Dr. Garg currently serves as chair of the ASCRS Young Eye Surgeons clinical committee and a co-medical director for SightLife. Additionally, he is currently medical monitor for VisionCare Inc. and ReVision Optics.

He has been recognized in Best Doctors and Super Doctors “Rising Stars” yearly since 2013 and has received the Orange County Medical Association’s Physician of Excellence award since 2014. Additionally, he was chosen by Ocular Surgery News as a Premier 300 Refractive Cataract Surgeon.

Dr. Garg is actively involved in resident and fellow teaching. In 2014, Dr. Garg published a textbook entitled, “Ophthalmic Microsurgery: Principles, Techniques, and Applications,” a manual designed for the education of ophthalmology trainees. Dr. Garg is a highly-skilled clinician, surgeon, and teacher, and has particular expertise in cataract surgery and complication management, corneal (PKP, FLEK, DSEK, DMEK), conjunctival, and refractive surgery.
Lbachir BenMohamed, PhD  
Professor, Ophthalmology

Dr. BenMohamed earned his PhD in immunology at the Pasteur Institute, Paris, France. He completed a first postdoctoral fellowship at the Pasteur Institute, Paris, France, and later two postdoctoral positions in the United States at the City of Hope National Medical Center, Duarte, CA, and then at The Beckman Research Institute of Immunology, Duarte, CA. At UC Irvine, he holds joint appointments in the Gavin Herbert Eye Institute, the Institute for Immunology, the Department of Molecular Biology & Biochemistry, and the Chao Family Comprehensive Cancer Center. He has participated in a number of United States Department of Defense peer review panels and National Institutes of Health (NIH) special emphasis panels. In 2002, he founded the Cellular & Molecular Immunology Laboratory at UCI which serves Gavin Herbert Eye Institute clinicians and researchers and other UCI Departments as a support and resource facility for basic and translational research in cellular and molecular immunology. Dr. BenMohamed serves the Director of Cellular & Molecular Immunology Laboratory since 2002. He is the recipient of several United States NIH grants. He is an independent immunologist, with a strong expertise in vaccine development against both infectious diseases and cancer.

Dr. BenMohamed is well integrated into the scientific community within the United States as well as in Europe, and is actively involved in a number of professional societies including American Association of Immunologists (AAI), American Society for Microbiology (ASM), American Society for Hematology (ASH), Association for Research in Vision and Ophthalmology (ARVO). His research currently focuses on six main projects: 1) the humoral and cellular immune responses to ocular, genital and oro-facial Herpes Simplex Viral infections (HSV-1 & HSV-2); 2) T cell epitope mapping on HSV-1 & HSV-2 proteins. He identified several epitopes that are recognized by CD4 and CD8 cells from symptomatic compared with asymptomatic patients, and is using these as the basis for subunit vaccine development; 3) the development and optimization of sub-unit vaccines against HSV-1 & HSV-2 infections and diseases; 4) identification of the underlying cellular and molecular immune mechanisms that control HSV-1 & HSV-2 latency and reactivation from the latently infected neurons to active infection in the skin (cold sores), the vaginal tract, and in the cornea (Herpes Simplex Keratitis, HSK), which causes blinding eye disease; 5) the molecular biology and pathogenesis of HIV; and 6) the production of vaccines for cancers using subunit vaccines, adenovirus-based vectors, adeno-associated virus-based vectors, and lentivirus-based vectors.

Anand Bhatt, MD  
Assistant Clinical Professor, Glaucoma & Cataract Surgery

Dr. Anand Bhatt specializes in the treatment and management of complicated glaucoma at UC Irvine, and also serves as a staff physician and preceptor at the Long Beach VA hospital. Dr. Bhatt grew up in Florida, and completed his undergraduate degree at the University of Miami. Dr. Bhatt graduated from University of Miami, Miller School of Medicine. He then went on to complete his residency training in the Department of Ophthalmology at University of Texas, Southwestern. After completing his residency, he began fellowship training in Glaucoma in the Department of Ophthalmology at UC Irvine under the tutelage of Sameh Mosaed, MD and Dr. George Baerveldt, MD. In his spare time he enjoys running and playing his guitar.
Chantal Boisvert, MD
Associate Clinical Professor, Pediatric Ophthalmology, Neuro-Ophthalmology, & Strabismus
Director of Medical Education, Department of Ophthalmology

Dr. Chantal Boisvert’s clinical interests include all aspects of pediatric and adult neuro-ophthalmology, including optic nerve disorders, unexplained visual loss, brain-related vision problems, and diplopia. In addition to her expertise in neuro-ophthalmology, she also has extensive experience in general pediatric ophthalmology, including retinopathy of prematurity, eye involvement in genetic, metabolic and autoimmune disorders, congenital cataracts and intraocular lens placement, amblyopia, and strabismus.

Dr. Boisvert received her OD from University of Montreal School of Optometry, Montreal, QC, Canada, and completed her medical degree at Laval University School of Medicine, Quebec City, QC, Canada. She completed her fellowship training in pediatric ophthalmology & adult strabismus at the University of California San Diego, Shiley Eye Center & Naval Medical Center San Diego, CA. Dr. Boisvert then completed her fellowship in neuro-ophthalmology at University of Southern California, Doheny Eye Center in Los Angeles, CA.

Dr. Boisvert’s research interests include retinopathy of prematurity and all aspects of neuro-ophthalmology. She is also involved in more fundamental neuroscience research. Dr. Boisvert is currently the Director of Medical Education for the Department of Ophthalmology at UC Irvine.

Andrew Browne, MD, PhD
Assistant Clinical Professor, Vitreoretinal Surgery

Andrew W. Browne MD, PhD graduated from the NIH-funded Medical Scientist Training Program at the University of Cincinnati. He holds a PhD in Electrical and Computer Engineering after studying microfluidic technologies for point-of-care diagnostic devices and developing a gene therapy technology using Herpes viruses to reveal hidden tumors. He completed his residency at the University of Southern California and Los Angeles County Medical Center where he developed an interest in diseases of the retina, inflammatory diseases of the eye and ophthalmic tumors. He completed his subspecialty training at the Cleveland Clinic Cole Eye Institute where he trained in vitreoretinal surgery with an emphasis on uveitis. He has published on various topics in the Journal of Refractive Surgery, the journal Glaucoma, the journal Brachytherapy, the journal Retina, and Investigative Ophthalmology and Visual Science.

Dr. Browne’s clinical interest focus on diseases affecting the posterior anatomy of the eye including age related macular degeneration, diabetic retinopathy, retinal vein occlusion, inflammatory and infectious diseases of the eye, epiretinal membrane, macular hole and retinal detachment.

As a clinician scientist and engineer, Dr. Browne continues to investigate the development and function of retinal organoids, the use of 2-photon functional imaging using lasers to understand retina function, technologies to assist low vision patients, and develop intraocular technologies for surgery and disease management. He has active clinical projects investigating radiation retinopathy, solar and photo toxic retinopathy.
R. Wade Crow, MD
Associate Clinical Professor, Neuro-Ophthalmology

Dr. Wade Crow is an Associate Professor in the Departments of Ophthalmology and Neurology specializing in Neuro-Ophthalmology at the Gavin Herbert Eye Institute at UC Irvine. Dr. Crow trained in Ophthalmology at University of Texas, Southwestern Medical Center and completed his fellowship in Neuro-Ophthalmology at the Moran Eye Institute at the University of Utah.

Dr. Crow is actively involved in teaching residents and medical students, receiving the 2012 Resident Teaching Award. He is currently doing research into Virtual Reality and its potential in assessment and treatment of ocular motility disorders.

Dr. Crow sees patients at the Gavin Herbert Eye Institute: on the UC Irvine campus in Irvine, and at the UC Irvine Medical Center in Orange.

Marjan Farid, MD
Associate Clinical Professor of Ophthalmology,
Cataract, External Disease / Corneal & Refractive Surgery
Director, Cornea Fellowship

Dr. Marjan Farid is the Director of Cornea, Cataract, and Refractive Surgery at the Gavin Herbert Eye Institute (GHEI) at UC Irvine.

Dr. Farid’s clinical practice is divided between patient care, teaching, and research. She enjoys teaching ophthalmology to medical students, ophthalmology residents, and cornea fellows. She serves on the Residency Education Committee and is the Director of the cornea fellowship program at the GHEI. Dr. Farid’s research interests focus on corneal surgery, specifically in the use of the Femtosecond laser for corneal transplantation. She performs all forms of corneal transplantation -- femtosecond enabled and lamellar keratoplasty (DMEK/DSEK and DALK). Dr. Farid is also the founder of the Severe Ocular Surface disease center at UCI. She performs limbal stem cell transplants as well as artificial corneal transplantation for the treatment of patients with severe ocular surface disorders. She has recently joined the SightLife Board of Directors and serves as an Associate Medical Director. She also serves on multiple national cornea committees that serve to improve educational forums regarding corneal disease and surgery. Her work is published in numerous peer-reviewed journals and she has authored multiple text-book chapters.
James Jester, PhD
Professor, Ophthalmology
Jack H. Skirball Endowed Research Chair

Dr. Jester is a recognized international leader in the cell biology of the cornea and ocular surface and has had a major impact on this field of research. He has a PhD in Experimental Pathology with postdoctoral training in Experimental Ocular Pathology from the Doheny Eye Institute in Los Angeles, California and the National Eye Institute, National Institutes of Health in Bethesda, Maryland.

Dr. Jester has authored over 270 peer-reviewed research papers as well as various review articles and book chapters on cornea, corneal wound healing, corneal structure and biomechanics, pathology of refractive surgery, meibomian gland biology and dry eye disease. While at Georgetown University, he helped develop the first in vivo confocal microscope that is widely used today to diagnose corneal disease and infection. He maintains an active interest in understanding the role of corneal structure and biomechanics in regulating corneal shape and refractive power. His work in Dry Eye Disease has focused on the biology of the meibomian gland, where he has been the first to identify the location of meibomian gland stem cells. He maintains an active research program that has received continuous peer reviewed funding for the past 20 years by the National Eye Institute, National Institutes of Health.

Tibor Juhasz, PhD
Professor, Ophthalmology and Biomedical Engineering

Dr. Tibor Juhasz received his undergraduate degree in Physics from JATE University of Szeged, Hungary in 1982, and his PhD in Physics, also at JATE University, in 1986. He completed his postdoctoral training at UC Irvine. His main area of research is in laser-tissue interactions, tissue biomechanics, medical applications of lasers, biomedical imaging and design of medical laser systems. Dr. Juhasz currently holds 26 US patents and has published extensively in numerous highly regarded scientific journals. Dr. Juhasz is considered to be world class in the field of medical applications of femtosecond lasers and is recognized as such by the international scientific community. His research has set all the benchmarks in his field.

Dr. Juhasz’s reputation as a “word class leader” in the field of ophthalmic applications of femtosecond lasers has made him one of the most sought after lecturers in the United States and around the world. Dr. Juhasz was awarded the prestigious Berthold Lebinger International Innovation Prize given by the Berthold Lebinger Stiftung Foundation and the Visionary Honoree Award given by the Foundation Fighting Blindness for the development of femtosecond laser technology for high precision ophthalmic surgery. This technology is now widely used in cataract and refractive surgery practices all around the world.
Sanjay Kedhar, MD  
Associate Clinical Professor, Ocular Immunology and Uveitis  
Director, Ocular Immunology and Uveitis Service

Sanjay Kedhar, MD is a board-certified ophthalmologist with over 12 years of experience treating uveitis and ocular inflammatory disorders. He previously served as Co-Director of the Ocular Immunology and Uveitis Division at the New York Eye and Ear Infirmary in Manhattan, and was also was the Chief of Ophthalmology at Mount Sinai Beth Israel Medical Center in New York.

Dr. Kedhar, a California native, graduated from UC Berkeley with a degree in immunology. He then received his medical degree from New York Medical College and completed his residency in ophthalmology at the New York Eye & Ear Infirmary, where he served as chief resident. Dr. Kedhar completed separate fellowships in uveitis/ocular immunology and cornea at the Wilmer Eye Institute, Johns Hopkins University, where he remained on faculty for several years before returning to New York.

During his career, Dr. Kedhar has remained active in research on the diagnosis and treatment of uveitis. He lectures nationally and internationally, has authored 50 publications in peer-reviewed journals and has written chapters for several textbooks. He is active in teaching and has trained more than 20 national and international fellows in uveitis. In addition, Dr. Kedhar is committed to international charity work, participating in regular medical missions around the world as a charter member of ISMS: Operation Restore Vision.

M. Cristina Kenney, MD, PhD  
Professor, Ophthalmology

Dr. Cristina Kenney is a highly accomplished clinician scientist and is recognized as a leader in the fields of genetic and biological research related to retinal and corneal disorders. Her laboratory investigates the genetics of age-related macular degeneration and photoreceptor opsins. They have developed a 'personalized' trans mitochondrial cybrid cell model that can be used to test novel mitochondria-targeting therapies for the treatment of retinal conditions such as age-related macular degeneration and diabetic retinopathy. Her past interests also include studies on the role of oxidative stress in the development and progression of keratoconus. Dr. Kenney has published numerous peer-reviewed articles in these areas of research and has been the recipient of grants from the National Institutes of Health and numerous private foundations.

Dr. Kenney earned her PhD from the University of Arizona, Tucson, and was a post-doctoral fellow at the University of Southern California. She then went on to earn a Medical Degree from University of California, Los Angeles. She received awards from the University of Arizona Foundation Award for Meritorious Performance in Teaching, the Emil Bogan Research Prize for Outstanding Research as a Medical Student from UCLA, the Solomon Scholar Award for Medical Research from Cedars-Sinai Medical Center and UCLA, the Paul Rubenstein Award for Research at Cedars-Sinai Medical Center, Los Angeles, the Everett Kinsey Lectureship and the Whitney Sampson Lectureship. Dr. Kenney served as a member of the National Institutes of Health, Visual Science A Study Section and was Chairperson from 1998-2000. Dr. Kenney joined the faculty of UC Irvine as a professor, and she is presently Director for Research for Ophthalmology Department.
Henry Klassen, MD, PhD

Associate Professor & Director, Stem Cell & Retinal Regeneration Program, Ophthalmology

Henry Klassen, MD, PhD is Associate Professor of Ophthalmology at UC Irvine. He trained as an ophthalmologist with specialization in retinal degenerative diseases and has an extensive research background in neuroscience and stem cell biology. He has a longstanding interest in neural plasticity and regeneration that dates to his undergraduate days at UC Berkeley and continued during MD/PhD studies at the University of Pittsburgh. Dr. Klassen’s clinical training included internship at the Cambridge Hospital, an affiliate of Harvard Medical School, and residency in ophthalmology at Yale Eye Center, followed by a combined fellowship in medical retina and research at Moorfields Eye Hospital and the Institute of Ophthalmology in London, England. During his research career, he has shown that transplanted progenitor cells reinvigorate nonfunctional photoreceptors and also replace photoreceptor cells that have already died. In partnership with the California Institute of Regenerative Medicine (CIRM), he continues to pursue the translational goal of bringing this therapy to patients with retinal disease. Together with Dr. Jing Yang, he co-founded the startup company jCyte and a phase 1/2a trial in retinitis pigmentosa has been completed. The FDA has granted Regenerative Medicine Advanced Therapy (RMAT) designation to the project, which has advanced to phase 2b testing in the same disease.

Robert Lingua, MD

Clinical Professor, Pediatric Ophthalmology

Robert Lingua, MD, is the Director of Pediatric Ophthalmology and specializes in surgery to the eye muscles for strabismus (any eye misalignment) and nystagmus (uncontrollable eye movements), in children and adults.

His clinical research involves innovative surgery to control nystagmus in young children to optimize their vision development, where it was previously thought to be untreatable.

He is leading the Eye Mobile effort to accomplish vision screening and providing eyewear for all 3-5 year old pre-school age children in need in Orange County, with the support of the Children and Families Commission of Orange County. He also envisions the first eye institute for children with Special Needs, at Gavin Herbert Eye Institute.

He is a graduate of the University of Southern California School of Medicine and received his Ophthalmology training at the College of Medicine and Dentistry in New Jersey, followed by a return to USC for a fellowship in Pediatric Ophthalmology at the Children’s Hospital of Los Angeles. He has held faculty positions at USC, University of Miami-Bascom Palmer, and Loma Linda University, before his Professorship at UC Irvine.

Dr. Lingua’s distinctions include the Honor Award from the American Academy of Ophthalmology (1992) and teaching awards from the house staff at USC and UCI. He is a “Physician of Excellence” as awarded by the Orange County Medical Association. He has authored, or co-authored, over 40 articles in journals and 7 book chapters.
Dr. Stephanie Lu is the Chief of Ophthalmology at Long Beach VA hospital. Her clinical practice is divided between patient care and teaching. She serves as a member on the Residency Education Committee. Dr. Lu specializes in the treatment and management of complicated retinal diseases.

Dr. Lu grew up in Southern California and completed her undergraduate degree at the University of California, Los Angeles. Dr. Lu graduated from UC San Diego School of Medicine. She then went on to complete her residency training in the Department of Ophthalmology at UC Irvine. After completing her residency, she began fellowship training in vitreo-retinal surgery in the Department of Ophthalmology at UC Irvine, under the tutelage of Baruch Kuppermann, MD, PhD.

Dr. Mitul C. Mehta is a board-certified ophthalmologist with fellowship training in medical and surgical diseases of the retina. His clinical interests include age-related macular degeneration (AMD), epiretinal membranes, macular holes, radiation retinopathy, diabetic retinopathy and retinal detachments.

Mehta earned his medical degree from the Keck School of Medicine of USC in Los Angeles. After completing his ophthalmology residency at the University of Cincinnati College of Medicine in Cincinnati, Ohio, he completed fellowship training in vitreoretinal surgery at the New York Eye & Ear Infirmary of Mount Sinai in New York City.

In addition to the care of patients with vitreoretinal disorders, Mehta teaches medical students, residents and fellows. He also does research on surgical devices and techniques, as well as on vitreoretinal diseases, such as diabetic retinopathy and macular degeneration.
Dr. Minckler received his BA from Reed College and an MD, cum laude, from the University of Oregon in 1964, after which he served as a USN flight surgeon from 1965–67 in Taipei, Taiwan and Sand Point NAS, Seattle. He then completed 18 months of General & Neuropathology training at the University Washington, Seattle, before transferring to a residency in Ophthalmology, University of Washington (1970-73). This was followed by Ophthalmic Pathology AFIP (1973-75) and Anatomic Pathology in-service at USC Los Angeles (1976-78). Dr. Minckler then pursued a glaucoma fellowship with Shaffer Associates & UCSF San Francisco (1981-82); MS in Biomedical and Clinical Investigations at USC in June 2006. He became certified in Ophthalmology in 1975, (re-certified in Ophthalmology 2006.)

Dr. Minckler began his career at UC Irvine when he joined the departments of Ophthalmology and Pathology in 2006. He currently is Emeritus Professor of Ophthalmology and Clinical Professor of Laboratory Medicine at UC Irvine. His other accolades include: AOS 1986-present; Resident teaching awards: USC 1990-93, 99-98; UCI 2007-8, 2010; Distinguished Achievement Award USC 1995; Editor-in-Chief, Ophthalmology, 1995–2003 & AAO Board of Trustees, 1995–2003; Glaucoma Research Society 1986-present; President 1998-2003; Senior Honor Award, AAO, 1997 & Lifetime Achievement Award 2007; Director, American Board of Ophthalmology, 1999–2006 & Chairman ABO 2006; Clinician of the Year (Cesario award, UC Irvine) 2011; Research interest pathophysiology of optic nerve injury in glaucoma. His publications include 192 peer reviewed papers, 18 symposia, 132 abstracts, 37 editorials, 30 textbook chapters, and 8 manuals.

Dr. Sameh Mosaed specializes in the treatment and management of complicated glaucoma. She grew up in Orange County. She completed her undergraduate degree at the University of California, Davis, and graduated from New York Medical College. She went on to complete her residency training in the Department of Ophthalmology at The Mount Sinai Hospital in New York. She then began fellowship training in Glaucoma in the Department of Ophthalmology at the University of California, San Diego, under the tutelage of Robert N. Weinreb, MD.

Dr. Mosaed is committed to meaningful research in the field of ophthalmology, and has presented at the Association for Research in Vision and Ophthalmology over the past several years. She is regularly invited to speak at prestigious national and international meetings to discuss the results of her clinical and surgical research.

She is a recipient of the American Academy of Ophthalmology Achievement Award, and is a "Top Doctor" since 2009. Dr. Mosaed is a member of the American Academy of Ophthalmology, The Orange County Ophthalmological Society, the New York State Ophthalmic Society, The Orange County Glaucoma Society, and is a certified member of the American Board of Ophthalmology. Dr. Mosaed has been honored with serving as an examiner for the American Board of Ophthalmology and serves on the editorial board for the International Glaucoma Review. Dr. Mosaed is currently the Director of the Glaucoma Fellowship Training Program at UC Irvine.
Anthony Nesburn, MD - Vice Chair of Research  
Adjunct Professor, Ophthalmology

Dr. Nesburn has served as Professor and Vice Chair for basic research in the Department of Ophthalmology at UC Irvine since 2002.

He has played a key role in expanding the outstanding research faculty and research programs of the Gavin Herbert Eye Institute (GHEI.) Dr. Nesburn has been instrumental in bringing the department's Stem Cell and Retinal Regeneration Research Program to UC Irvine. Additionally, he serves as President and Medical Director of the Discovery Eye Foundation, a non-profit organization that has been the major non-governmental funder of basic eye research at the Gavin Herbert Eye Institute.

Dr. Nesburn has devoted over half of his time to patient-oriented laboratory research and clinical research projects. He received substantial NIH research support for over 30 years that resulted in important sight-saving scientific and clinical advances, as well as over 230 publications in peer-reviewed scientific journals.

Dr. Nesburn’s main research interests include ocular herpes, keratoconus and particularly AMD in the last decade. His clinical interests include corneal surgery, clinical trials and laser refractive surgery where he was involved in pioneering studies of laser vision correction. He is an internationally respected eye surgeon, educator, lecturer and researcher. He is highly respected by his medical peers, and repeatedly included in Outstanding Medical Specialists in U.S., The Best Doctors in America and America’s Top Doctors.

Eric Pearlman, PhD
Director, UCI Institute of Immunology; Professor, Ophthalmology, Physiology and Biophysics

Dr. Pearlman moved from Case Western Reserve University to UC Irvine in 2015 to continue his studies on microbial corneal infections (keratitis.) His research program is based on two NIH R01 grants that examine the pathogenesis of bacterial and fungal keratitis that cause visual impairment and blindness. Dr. Pearlman’s fungal keratitis program, which has been in effect since 2008 following the outbreak of contact lens associated fungal keratitis in the USA, and the bacterial keratitis program initiated in 2003, has characterized the innate immune responses in the cornea following infection with Pseudomonas aeruginosa and Streptococcus pneumoniae. Both programs have examined infected patients and experimental models of disease.
Dr. Kavita K. Rao is a comprehensive ophthalmologist specializing in dry eyes, Meibomian gland disease, blepharitis, ocular graft versus host disease, diabetic retinopathy and glaucoma screening. Her clinical interests include chemotherapy-related ocular conditions, diabetic screening and age-related macular degeneration.

Dr. Rao’s research has previously focused on open globe injuries, ultrasound biomicroscopy as a tool in glaucoma evaluation and intravitreal Avastin® treatment for diabetic proliferative retinopathy. Her work has appeared in a number of academic publications, including Investigative Ophthalmology & Visual Science and Expert Review of Ophthalmology.

Dr. Rao received her medical degree from Chicago Medical School. She completed an internship in internal medicine at Baylor College of Medicine in Houston, Texas, and a residency in ophthalmology at the University of Texas Health Science Center in Houston. Prior to moving back to California, Rao spent two years working at MD Anderson Cancer Center in Houston, Texas.

Dr. Rao enjoys meeting her audiences at the Gavin Herbert Eye Institute-sponsored community lectures on eye disorders and prevention. She also presented a lecture on red eye and other infectious eye conditions seen in primary care to a local primary care medical group.

Dr. Jennifer Simpson specializes in pediatric ophthalmology and strabismus. Dr. Simpson graduated Magna Cum Laude, Phi Beta Kappa from Kenyon College. She obtained her medical degree at the University of Michigan, graduating Alpha Omega Alpha. She completed her residency in Ophthalmology at the University of Iowa. Dr. Simpson obtained a fellowship in pediatric ophthalmology and adult strabismus at the University of Michigan. Following her fellowship, she joined the faculty in the Department of Ophthalmology at the University of Michigan. In 2000, Dr. Simpson joined the faculty in the Department of Ophthalmology at UC Irvine.

Dr. Simpson’s primary clinical interests and expertise are in the field of pediatric ophthalmology and adult strabismus, including medical treatment of pediatric strabismus (eye misalignment), cortical visual impairment, as well as ocular genetics and congenital eye anomalies.

Dr. Simpson’s research interests center on investigating novel drug and stem cell therapies for corneal cystinosis. She is also investigating novel infant screening modalities for cortical visual impairment.

Dr. Simpson has been named a Best Doctor in America since 2005. She is board certified in Ophthalmology and serves as a board examiner for the American Board of Ophthalmology. She serves on the Medical Advisory Board for United Cerebral Palsy of Orange County as well as the Cystinosis Research Foundation. She also serves on the Parent Professional Advisory Council for Blind Children’s Learning Center in Tustin, California.
Jeremiah Tao, MD  
*Associate Clinical Professor, Oculofacial Plastic & Orbital Surgery*

Jeremiah Tao, MD, FACS is an associate professor and the director of oculofacial plastic and orbital surgery at the Gavin Herbert Eye Institute, UC Irvine School of Medicine in California. He is also the program director for the oculofacial plastic surgery fellowship and the ophthalmology residency.

Dr. Tao is the national meetings program chair for the American Society of Ophthalmic Plastic and Reconstructive Surgery (ASORPS). He is also the liaison to the American Board of Ophthalmology (ABO) representing ASOPRS, and serves as an examiner and oculoplastics exams committee member for the ABO.

Dr. Tao earned his bachelor’s degree at Duke University where he also played varsity soccer. He completed medical school and his residency at the University of South Carolina School of Medicine, followed by an oculofacial plastic surgery fellowship at Indiana University School of Medicine.

Matthew Wade, MD  
*Assistant Clinical Professor, Cataract, Corneal & Refractive Surgery*  
*Director of Cornea Services in the Department of Ophthalmology, at the Veterans Affairs Hospital in Long Beach, CA*

Dr. Matthew Wade is an Assistant Clinical Professor in the Department of Ophthalmology at the Gavin Herbert Eye Institute at the University of California, Irvine. He studied applied physics at Brigham Young University before medical school at The George Washington University in Washington, D.C. He completed his ophthalmology residency and cornea/external disease fellowship at UC Irvine. He also completed a clinical research training program/fellowship at the National Institutes of Health.

Dr. Wade specializes in complex cataract surgery, anterior segment reconstruction, corneal transplants and LASIK. Dr. Wade’s research focuses on optimizing the refractive state of corneal transplants. This includes astigmatism correction after corneal transplantation with corneal (LASIK/PRK) and lens-based (toric intraocular lens) refractive surgery as well as use of the femtosecond laser to prepare corneal transplants prior to surgery. Other research interests include dry eye treatment, corneal crosslinking, implantable miniature telescope for macular degeneration, cataract surgery and corneal infections.

As an Assistant Professor of Ophthalmology at UC Irvine, Dr. Wade especially enjoys his role as an instructor to medical students, resident physicians, and cornea fellows. He received the teaching award after his first year as faculty from the 2013 graduating residents. He also teaches at the Veteran’s Affairs Hospital in Long Beach. He is frequently asked to present lectures locally and around the country. He recently completed a surgical service trip to Armenia where Dr. Wade spent a week helping to train a local corneal surgeon in the latest corneal surgery techniques.

Dr. Wade is an active participant of the American Academy of Ophthalmology (AAO), the American Society of Cataract and Refractive Surgery (ASCRS), the Association for Research in Vision and Ophthalmology (ARVO), the Orange County Society of Ophthalmology, the Cornea Society, and Orange County Medical Association.
Jing Yang, MD
Assistant Professor, Ophthalmology

Jing Yang, MD, PhD has worked in the ophthalmological field for 18 years as a physician-scientist. As a resident in the ophthalmology program at the Eye Center of Peking University, among the most prestigious eye centers in China, she was selected to participate in an exchange program with the University of Copenhagen. There, she began her work in regenerative medicine, specifically translational research for treatment of retinal degeneration. She developed the methodology necessary to isolate and grow retinal progenitor cells and designed and performed novel experiments that resulted in several refereed publications in respected Western journals. For this work, she was recognized as a leading young physician-scientist in China, but rather than accept a clinical faculty position there, she elected to pursue the development of human retinal progenitor cells for clinical application.

Since being recruited to UC Irvine in 2006, she has pursued this goal and successfully developed retinal progenitor cell lines from the cat, pig, dog, rat, mouse and human, providing her with extensive experience in terms of working with these powerful, yet difficult to grow cells. She is currently an Assistant Professor in the Department of Ophthalmology at the UC Irvine, while also collaborating with Dr. Henry Klassen to launch their stem-cell clinical trial for Retinitis Pigmentosa. As a co-investigator on the project, she developed the cell manufacturing protocols and also conducted and organized preclinical proof of concept and toxicity studies as part of Investigational New Drug (IND) filing, which received FDA approval for clinical testing in retinitis pigmentosa (RP). Dr. Yang is also interested in exploring other clinical indications for this cell product, particularly diabetic retinopathy, glaucoma and other optic nerve diseases.
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Speakers/Topics</th>
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<tbody>
<tr>
<td>7:15-8:00 AM</td>
<td>Registration/ Continental Breakfast</td>
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<tr>
<td>8:00-8:05 AM</td>
<td>Welcome</td>
<td>Baruch D. Kuppermann, MD, PhD/Sam Garg, MD</td>
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<tr>
<td>8:05 - 10:00 AM</td>
<td>Retinal Disease: Imaging, Infection, and Therapeutics</td>
<td>Moderator: Baruch D. Kuppermann, MD, PhD&lt;br&gt;Retinal progenitor cells for treatment of retinitis pigmentosa&lt;br&gt;Quantification of outer retina anatomy as a clinical biomarker for uveitis&lt;br&gt;Blue light and AMD – what’s the connection?&lt;br&gt;Management of endophthalmitis&lt;br&gt;Novel AMD model for screening mitochondria-targeting therapies&lt;br&gt;Functional imaging of retinal organoids and it’s potential in retinal diseases&lt;br&gt;Retinal neuroprotection and other strategies to treat atrophic age related macular degeneration</td>
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<td>10:00 - 10:20 AM</td>
<td>Break</td>
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<tr>
<td>10:20 AM - 12:15 PM</td>
<td>Ocular Surface Disease and Updates in Corneal Disease</td>
<td>Moderator: Marjan Farid, MD&lt;br&gt;Keratoplasty trends and updates&lt;br&gt;CXL: FDA approved and beyond&lt;br&gt;Two photon corneal cross linking, a disruptive technology for corneal reshaping&lt;br&gt;Ocular surface disease in 2017: diagnostics&lt;br&gt;SMILE and corneal inlays&lt;br&gt;Immune checkpoint blockade combined with immunotherapy to prevent recurrent ocular herpes</td>
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<td>12:10 - 1:15 PM</td>
<td>Lunch and Interactive discussion</td>
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<tr>
<td>1:15 - 3:00PM</td>
<td>Advances in Diagnosis and Treatment of Optic Neuropathies</td>
<td>Moderators: Wade Crow, MD/Chantal Boisvert, MD&lt;br&gt;Leber’s hereditary optic neuropathy: why neurons are high maintenance&lt;br&gt;Triage of optic nerve conditions&lt;br&gt;Posterior ischemic optic neuropathy&lt;br&gt;Neuro-ophthalmic toxicity of new cancer drugs&lt;br&gt;Leber’s hereditary optic neuropathy: new treatments&lt;br&gt;NAION QPI-1007 trial</td>
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<td>3:00 - 3:20PM</td>
<td>Break</td>
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<td>3:20 - 5:00 PM</td>
<td>Improving Your Outcomes in Refractive Cataract Surgery</td>
<td>Moderator: Matthew Wade, MD&lt;br&gt;Posterior corneal astigmatism: pearls and pitfalls&lt;br&gt;Troubleshooting toric IOLs&lt;br&gt;Higher order aberrations and posterior astigmatism ... what’s all the fuss about?&lt;br&gt;Cataract surgery in complex eyes&lt;br&gt;How to deal with refractive surprises&lt;br&gt;Presbyopia correction: individualizing options&lt;br&gt;Mixing and matching premium lenses</td>
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<td>5:00 - 6:15 PM</td>
<td>Reception - Mazzo Terrace</td>
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<tr>
<td>7:15 - 8:00 AM</td>
<td>Registration/ Continental Breakfast</td>
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<td>8:00 - 10:00 AM</td>
<td>Current Concepts in Glaucoma Management</td>
<td>Moderator: Sameh Mosaed, MD&lt;br&gt;MIGS for the cataract surgeon&lt;br&gt;Review of screening and diagnostics</td>
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<td>10:00 - 10:20 AM</td>
<td>Break</td>
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<td>10:20 AM - 12:05 PM</td>
<td>Comprehensive Round-up</td>
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<td>Eyelid neoplasms: evaluation and treatment</td>
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<td>Uveitis: current approaches and therapies</td>
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<td>Acuity potential in foveal hypoplasia: implications for nystagmus surgery</td>
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<td>The surgery was a success but the IOP is high, now what?</td>
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<td>Guidelines for intracameral and topical antibiotic use</td>
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<td>12:05 - 1:10 PM</td>
<td>Lunch and Interactive Discussion</td>
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<td>1:10 - 2:40 PM</td>
<td>Video and Case Session: Complex Surgical and Clinical Dilemmas</td>
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<td>2:40 - 3:00 PM</td>
<td>Break</td>
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<td>3:00 - 4:15 PM</td>
<td>What to Expect in 2017 and Future Trends ...</td>
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<td></td>
<td>En face OCT and OCT angiography</td>
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<td>MIPS &amp; MACRA</td>
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<td>BlephEX and hypochlorous acid</td>
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<td>IMT exchange study</td>
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<td>New drug delivery options for cataract surgery</td>
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<td>Alternative methods for glaucoma device erosion</td>
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<td>Yamane technique</td>
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<td>Novel approach to keratoprosthesis</td>
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<td>4:15 - 4:20 PM</td>
<td>Closing Remarks</td>
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**Pharm update: current strategies and the pipeline**
Sameh Mosaed, MD

**Clinical and pathological correlation of cotton wool spot in secondary angle closure glaucoma**
Donald Minckler, MD, MS

**Changing paradigms in glaucoma care**
Steven Vold, MD

**Trabs and tubes in 2017**
Sameh Mosaed, MD

**Challenging surgical cases: a 3D video symposium**
Steven Vold, MD

**Q&A and discussion**

**10:00 - 10:20 AM**

**10:20 AM - 12:05 PM**

**Comprehensive Round-up**

- Eyelid neoplasms: evaluation and treatment
  Jeremiah Tao, MD
- Uveitis: current approaches and therapies
  Sanjay Kedhar, MD
- Acuity potential in foveal hypoplasia: implications for nystagmus surgery
  Robert Lingua, MD
- The surgery was a success but the IOP is high, now what?
  Anand Bhatt, MD
- Guidelines for intracameral and topical antibiotic use
  Francis Mah, MD

**Q&A and discussion**

**12:05 - 1:10 PM**

**Lunch and Interactive Discussion**

**1:10 - 2:40 PM**

**Video and Case Session: Complex Surgical and Clinical Dilemmas**

**2:40 - 3:00 PM**

**3:00 - 4:15 PM**

**What to Expect in 2017 and Future Trends ...**

- En face OCT and OCT angiography
  Mitul Mehta, MD
- MIPS & MACRA
  Anand Bhatt, MD
- BlephEX and hypochlorous acid
  Matthew Wade, MD
- IMT exchange study
  Sam Garg, MD
- New drug delivery options for cataract surgery
  Francis Mah, MD
- Alternative methods for glaucoma device erosion
  Sameh Mosaed, MD
- Yamane technique
  Sanjay Kedhar, MD
- Novel approach to keratoprosthesis
  Marjan Farid, MD

**Q&A and discussion**

**4:15 - 4:20 PM**

**Closing Remarks**

Sam Garg, MD
Purpose
Gavin Herbert Eye Institute’s 11th Annual Colloquium - “Advances and Controversies 2017” - is designed to improve the participant’s competence, knowledge and skills and should improve their performance within their practice through the use of new skills and strategies. The format is a combination of didactic lectures utilizing both PowerPoint and surgical videos to illustrate new techniques and technologies and will present complication management and avoidance to comprehensive ophthalmologists. In addition panel and audience discussions will be used to encourage interactive learning with attendees and faculty.

Target Audience
This activity was developed for ophthalmologists, ophthalmology researchers, and other ophthalmology healthcare professionals.

Activity Objectives
At the conclusion of this activity, the participants should be able to:
1) Understand the importance in imaging in the diagnosis and management of retinal pathologies.
2) Become more aware of options and techniques for cataract surgeries to help avoid and manage complications.
3) Become more aware of recent advances in glaucoma management and surgery.
5) Have a better awareness of treatment of uveitis in cataract patients.
6) Gain a greater familiarity with alternatives for secondary IOL support.
7) Gain an understanding for current management of retinal pathologies.
8) Become more familiar on when to utilize dry eye diagnostics in the evaluation of ocular surface disease.
9) Gain greater understanding in dry eye therapeutics.
10) Gain a greater understanding of neuro-ophtalmic conditions and treatment modalities.
11) Improve their understanding of astigmatism and astigmatism management.

Accreditation Statement
The University of California, Irvine School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

Designation Statement
The University of California, Irvine School of Medicine designates this live activity for a maximum of 14.25 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

California Assembly Bill 1195
This activity is in compliance with California Assembly Bill 1195, which requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. For specific information regarding Bill 1195 and definitions of cultural and linguistic competency, please visit the CME website at www.cme.uci.edu.

Acknowledgement of Commercial Support
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These speakers/planners have provided the following disclosures regarding relevant financial relationships:

**Marjan Farid, MD** has disclosures for the following companies: Allergan – Consultant; Johnson & Johnson Vision – Consultant; Shire – Consultant; SightLife Surgical – Consultant. Resolution: I will submit the program’s curriculum in advance for peer review, and will recuse myself from participating in the planning of any content related to my disclosure information.

**Sam Garg, MD** has disclosures for the following companies: Johnson & Johnson Vision – Speakers Bureau, Consultant; Shire – Speakers Bureau, Consultant; SightLife Surgical – Advisor or Review Panel Member; Vision Care, Inc. – Advisor or Review Panel Member; Zeiss – Honorarium Recipient. He is a consultant on all these. Resolution: He will support his presentation and clinical recommendations with the “best available evidence” from the medical literature. He will submit his presentation in advance to allow for adequate peer review. As a planner, he will, to the best of his ability, ensure that any speakers or content he suggests is independent of commercial bias and he will excuse himself from planning activity content in which he has a conflict of interest. In addition, he will not discuss the use of any unlabeled/unapproved drugs or devices.

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<tr>
<th>Anand Bhatt, MD</th>
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<td>Andrew Browne, MD, PhD</td>
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<td>Cristina Kenney, MD, PhD</td>
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<td>Jeremiah Tao, MD</td>
<td>Alfredo Sadun, MD, PhD</td>
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Thank you for attending the Gavin Herbert Eye Institute 11th Annual Colloquium. Please take a few minutes to complete a brief evaluation of our event. To begin simply copy the link below into your browser, enter your personal information and begin the survey. At the end of the survey you will be able to download and print your CME certificate.

Please note that this evaluation must be completed and submitted online by November 13, 2017. If the online evaluation is not completed by that time, you’ll need to wait for the CME office to send your CME certificate.

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Thank you for attending the Colloquium.
If you have any comments or feedback that can help us to improve this event, please contact: ghei@health.uci.edu or 949-824-7243

We look forward to seeing you next year!