

Curriculum Vitae

Date Prepared: September 6, 2018

Name: James Chodosh, M.D., M.P.H.

Education

1975-1978	B.A.	Film	Hampshire College
1982-1984		Premed	New York University
1984-1988	M.D., <i>with Honors</i>	Medicine	Baylor College of Medicine
2003-2007	M.P.H., <i>with Honors</i>	Biostatistics	Univ. of Oklahoma Health Sciences Center

Postdoctoral Training

1988-1989	Intern	Transitional	St. Joseph's Hospital
1989-1992	Resident	Ophthalmology	Cullen Eye Institute, Baylor College of Medicine
1992-1993	Clinical Fellow	Cornea and External Diseases	Bascom Palmer Eye Institute, Univ. of Miami School of Medicine
1993-1995	Postdoctoral Research Associate	Molecular Biology and Virology; Infectious Diseases (John W. Sixbey, M.D.)	St. Jude Children's Research Hospital

Faculty Academic Appointments

1993	Instructor	Ophthalmology	Univ. of Tennessee College of Medicine
1994	Assistant Professor	Ophthalmology	Univ. of Tennessee College of Medicine
1995	Assistant Professor	Ophthalmology	Univ. of Oklahoma Health Sciences Center

2000	Associate Professor, with Tenure	Ophthalmology	Univ. of Oklahoma Health Sciences Center
2001	Adjunct Associate Professor	Cell Biology	Univ. of Oklahoma Health Sciences Center
2004	Adjunct Associate Professor	Microbiology and Immunology	Univ. of Oklahoma Health Sciences Center
2005	Professor	Ophthalmology	Univ. of Oklahoma Health Sciences Center
2005	Adjunct Professor	Cell Biology; Microbiology and Immunology	Univ. of Oklahoma Health Sciences Center
2006-2008	M.G. McCool Chair	Ophthalmology	Univ. of Oklahoma Health Sciences Center
2008-2010	Lecturer	Ophthalmology	Harvard Medical School
2011	Professor	Ophthalmology	Harvard Medical School
2011	David G. Cogan Professor of Ophthalmology in the Field of Cornea and External Disease	Ophthalmology	Harvard Medical School

Appointments at Hospitals/Affiliated Institutions

Past

1995-2008	Scientist	Molecular Pathogenesis of Eye Infection Research Center	Dean A. McGee Eye Institute
1995-2008	Physician	Ophthalmology	Dean A. McGee Eye Institute
1997-2003	Attending Surgeon	Ophthalmology	Univ. of Oklahoma Trauma Center

Current

2008-	Attending Surgeon	Ophthalmology	Massachusetts Eye and Ear Infirmary
2008-	Clinical Sr. Scientist	Ophthalmology	Schepens Eye Research Institute
2009-	Associate Surgeon	Ophthalmology	Massachusetts General Hospital
2009-	Clinical Associate	Ophthalmology	Brigham and Woman's Hospital
2012-	Consulting Staff	Ophthalmology	Shriners Hospital for Children - Boston
2012-	Member	Harvard Program in Virology	Harvard University
2017-	Consulting Staff	Surgery	Dana-Farber Cancer Institute

Other Professional Positions

1987-1990	Admissions Associate	Hampshire College
2002-2010	Advisory Board	Women's Eye Health Task Force

2003	Tournament Ophthalmologist	Big XII Conference Baseball Finals
2003	Tournament Ophthalmologist	NCAA Regional Men's Basketball
2004-2008	Data Safety Monitor, "A Phase I Clinical Trial to test the safety and efficacy of surgical transplantation of bio-engineered corneal surface tissue in patients with limbal cell deficiency"	TissueTech, Inc.
2005	Review Panel	South Carolina Research Centers of Economic Excellence
2008	Consultant, Focal Points Clinical Modules for Ophthalmologists	Herpetic Corneal Infections, Volume XXVI (8), Module 2

Major Administrative Leadership Positions

Local

1994	Chief	Cornea and External Diseases, Ophthalmology	Univ. of Tennessee College of Medicine
1999-2008	Fellowship Director	Cornea and External Diseases	Univ. of Oklahoma Health Sciences Center
2002-2008	Vice-Chief	Ophthalmology Clinical Service	Univ. of Oklahoma Medical Center
2005-2008	Residency Program Director	Ophthalmology	Univ. of Oklahoma Health Sciences Center
2005-2008	Chief	Cornea, External Diseases and Surgery	Univ. of Oklahoma Health Sciences Center
2006-2008	Associate Director	Oklahoma Vision COBRE	Univ. of Oklahoma Health Sciences Center
2010-	Fellowship Director	Cornea and Refractive Surgery	Massachusetts Eye and Ear Infirmary Harvard Medical School
2013-	Associate Director	Cornea and Refractive Surgery	Massachusetts Eye and Ear Infirmary Harvard Medical School
2013-2015	Medical Director	Optometry	Massachusetts Eye and Ear Infirmary Harvard Medical School
2013-2017	Director	Boston Keratoprosthesis Clinical Programs	Massachusetts Eye and Ear Infirmary
2014-	Associate Director	Infectious Disease Institute	Massachusetts Eye and Ear Infirmary
2017-	Director	Boston Keratoprosthesis	Massachusetts Eye and Ear

Program

Committee Service

Local

1996-1999	Research Operations Committee	Dean A. McGee Eye Institute
1998-1999	Pediatric Ophthalmology Search Committee	Dean A. McGee Eye Institute
1998-1999	Glaucoma Ophthalmology Search Committee	Dean A. McGee Eye Institute
1998-2001	Executive Committee	Dean A. McGee Eye Institute
1998-2003, 2005-2008	Residency Selection Committee, Department of Ophthalmology	Univ. of Oklahoma Health Sciences Center
1999-2003	Vision Club	Univ. of Oklahoma Health Sciences Center
1999-2003	Founder, Coordinator	
1999-2008	Education Committee, Department of Ophthalmology	Univ. of Oklahoma Health Sciences Center
2001	Organizing Committee	Molecular Pathogenesis of Infectious and Inflammatory Eye Research Conference
2003	Scientific Writing Made Simple, Ophthalmology Residency Program	Univ. of Oklahoma Health Sciences Center
2003, 2005-2008 2003, 2005-2008	Institutional Biosafety Committee Ad Hoc Reviewer	Univ. of Oklahoma Health Sciences Center
2004	Internal Advisory Committee, Vision Core and COBRE modules	Univ. of Oklahoma Health Sciences Center
2004	Virology Search Committee, Department of Microbiology & Immunology	Univ. of Oklahoma Health Sciences Center
2005	Graduate Exam Committee, Department of Microbiology & Immunology, Cell Biology	Univ. of Oklahoma Health Sciences Center
2006-2008 2006-2008	OU-Vision Workshop Founder and Faculty Organizer	Univ. of Oklahoma Health Sciences Center
2009-2011	Pharmacy & Therapeutic Committee	Massachusetts Eye and Ear Infirmary
2009-2013	Operating Room Committee	Massachusetts Eye and Ear Infirmary
2009- 2011-	Animal Care Committee Chair	Massachusetts Eye and Ear Infirmary
2010-2015	Schwartz Center Rounds Committee Panelist (2011)	Massachusetts Eye and Ear Infirmary

2010-	Selection Committee for Faculty Fellowship Programs: Diversity Inclusion & Community Partnership, and the Harvard Catalyst Program for Faculty Development and Diversity	Harvard Medical School, Harvard Clinical and Translational Science Center
2011	27 th Biennial Cornea Conference Co-Chair	Massachusetts Eye and Ear Infirmary
2011-2015	Ophthalmology Residency Steering Committee	Massachusetts Eye and Ear Infirmary
2012-	Harvard Program in Virology	Harvard Medical School
2012-2015	Promotions, Reappointments, and Appointments Committee	Harvard Medical School
2012-2015	Board of Surgeons	Mass. Eye & Ear Infirmary
2012-2015	Ophthalmology Residency Selection Committee	Harvard Medical School
2013-2015	Harvard Medical School Ophthalmology Nominations Committee	Dept. Ophthalmology Mass. Eye & Ear
2013-	Clinical Operations Group	Dept. Ophthalmology Mass. Eye & Ear
2013-2015	Promotions and Reappointments Subcommittee of the Executive Committee in Ophthalmology	Harvard Medical School
2015-2018	Subcommittee on Professors	Harvard Medical School
<i>National</i>		
2003-2005	Periodic Ophthalmic Review Test (PORT) Committee	American Board of Ophthalmology
2005-2008	External Advisory Committee, Harvard-Vision Clinical Scientist Development Program	Harvard Medical School
2008-2012	Member	National Advisory Eye Council
<i>International</i>		
1999-2000	International Advisory Committee	3 rd International Conference on the Lacrimal Gland, Tear Film and Dry Eye Syndromes: Basic Science and Clinical Relevance
2005	Review Panel Member, Young Investigator Travel Awards	4 th International Conference on the Lacrimal Gland, Tear Film, Ocular Surface and Dry Eye Syndromes
2016-	Member, Advisory Committee	Tej Kohli Cornea Institute, Hyderabad, India

Professional Societies

1990-	Association for Research in Vision and Ophthalmology
2000-2007	Public Relations Committee
2006-2012	Member, Advocacy Committee, Research Agency Subcommittee
2010-2012	Chair, Advocacy Committee, Research Agency Subcommittee
2007	Moderator, Translational Research in Microbial Pathogenesis
1992-	Society of Heed Fellows
1992-	Dan B. Jones Society
1994-	American Academy of Ophthalmology
1995-1996	Clinical Case Reviewer, ProVision Interactive Clinical Case Studies
2000-2005	Basic and Clinical Science Course Sub-Committee, <i>External Disease and Cornea</i>
2001	Reviewer, <i>AAO Summary Benchmarks for Preferred Practice Patterns</i>
2001	Reviewer, <i>Focal Points: Clinical Modules for Ophthalmologists</i>
2004	Leadership Development Program
2005	Pay for Performance Subspecialty Society and Specialized Interest Society Liaison
2006	Member, Subspecialty Specialized Interest Section Nominating Committee
2006-	Member, Cornea/External Disease-Panel Subcommittee of the Practicing Ophthalmologists Curriculum
2007-2012	Committee for Research Regulatory, and External Scientific Relations
2016-	Associate Secretary (Chair)
2008	Subspecialty Co-Chair, Tornado Belt Region
2008	Member, Council Credentials Committee
2008-2012	Member, EyeNet Editorial Advisory Board
2016-	Member, Under Represented Minorities Task Force
2018-	Ophthalmology Champion, Mass. Eye & Ear, AAO/AUPO Minority Ophthalmology Mentoring (MOM) Program
1995-	American Society for Virology
1995-	American Society for Microbiology
1996-	Tear Film & Ocular Surface Society
2001-	Medical and Scientific Advisory Board
2006-2009	Chairperson, Medical and Scientific Advisory Board
1999-	American Association of Immunologists
1999-	International Ocular Surface Society
1999	Founding Member, Board of Directors
2009-2012	Member, Governing Board

2000-	Ocular Microbiology and Immunology Group
2000-2002	Moderator, Annual Meeting
2002-2003	Secretary
2003-2004	Vice-President
2003-2009	Councilor to American Academy of Ophthalmology
2004-2005	President
2006-2007	Co-Moderator, Annual Meeting
2002-	American Board of Ophthalmology, Associate Examiner
2006-2007	International Society of Eye Research
2006	Scientific Program Organizer, XVII International Congress of Eye Research, Buenos Aires, Argentina
2006-	American Ophthalmological Society
2007	Inducted
2009-2012	Member, Thesis Committee
2010-2012	Chair, Thesis Committee
2006-2008	Association of University Professors of Ophthalmology
2008-	Cornea Society
2011-	Member, Education Committee
2008-	KPro Study Group
2010-	Member, Steering Committee
2012-	International Adenovirus Meeting
2012	Co-Moderator, 10 th International Adenovirus Meeting
2016	Co-Moderator, 11 th International Adenovirus Meeting

Grant Review Activities

2001	Grant Reviewer	Oklahoma Center for Neuroscience and Collaborative Research
2002-2006	Visual Sciences A / Anterior Eye Disease Study Section	National Institutes of Health
2002-2006	Member	
2004-2006	Chair	
2004	Visual Systems SBIR Study Section	National Institutes of Health
2004	Ad hoc Reviewer	
2008, 2015	Peer Reviewed Medical Research Program (PRMRP): Eye & Vision Panel 2 Study Section	Department of Defense
2008, 2015	Chair	
2008	Cooperative Agreement Review,	National Eye Institute

	ZEY1 VSN (09)
2008	Chair
2009, 2012	US Army Medical Research and Materiel Command Telemedicine and Advanced Technology Research Center Vision Research Program Peer Review Panel
2009, 2012	Chair
2017-2018	Chair, FDA Dermatologic and Ophthalmic Drugs Advisory Committee (DODAC) Application reviewer, FDA Office of Orphan Products Development

Editorial Activities

Ad hoc Reviewer

1996	Viral Immunology
1998-2013	Investigative Ophthalmology & Visual Science
1998-2003	Journal of Cataract & Refractive Surgery
2001-	American Journal of Ophthalmology
2002-2009	British Journal of Ophthalmology
2002-2003	Clinical and Experimental Ophthalmology
2002-	Cornea
2003-2011	Eye
2005-2013	Archives of Ophthalmology
2005	Journal of Anatomy
2006	Current Eye Research
2006, 2011	Ocular Immunology and Inflammation
2006, 2014	Ophthalmology
2007, 2011	Experimental Eye Research
2007-2008	Journal of Immunology
2007-2009	Molecular Vision
2009, 2011	American Journal of Pathology
2009, 2012	Journal of Clinical Microbiology
2009-2011	Virus Research
2010-2016	PLoS Pathogens
2010, 2011	Nature Medicine
2011	Journal of Virological Methods
2011	Journal of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases
2012	Applied and Environmental Microbiology
2012-	Journal of General Virology
2012	Journal of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases
2012	Journal of Anatomy
2012, 2018	Clinical Infectious Diseases
2013	Journal of Virological Methods
2013-	Journal of Virology
2014	Journal of Antimicrobial Agents
2014-2015	New England Journal of Medicine
2015	Journal of Medicinal Chemistry
2016, 2017	Nature Communications

2017 ACS Infectious Diseases
 2017 Molecular Pain
 2018 Journal of Infectious Diseases
 2018 Scientific Reports
 2018 Journal of Proteomics
 2018 Dermatologic Therapy

Other Editorial Roles

1999-2001	Guest Editorial Board Member	Investigative Ophthalmology & Visual Sciences
2000-2007	Co-Editor	Ocular Microbiology, Volume 2, Duane's Fnds. of Clinical Ophthalmology
2002-2005	Editorial Board Member	The Ocular Surface
2002-2008	Editorial Board Member	American Journal of Ophthalmology
2008-2011	Executive Editor for Corneal and External Eye Disease	American Journal of Ophthalmology
2011-	Editorial Board Member	American Journal of Ophthalmology
2011	Co-Editor	International Ophthalmology Clinics: Advances in Detection and Treatment of Ocular Infections 2011;51(4)
2014-	Co-Editor-in Chief	British Journal of Ophthalmology

Honors and Prizes

1988	Medical Honor Society	Alpha Omega Alpha	Academic Performance
1988	Merck Manual Award	Merck Manual	Academic Performance
1988	Honors Graduate	Baylor College of Medicine	Academic Performance
1989	Dept. of Medicine Award for Outstanding Intern	St. Joseph's Hospital	Clinical Performance
1991,1992	Everett L. Goar Research Award in Ophthalmology	Cullen Eye Institute, Baylor College of Medicine	Best Research Paper
1992	Pan-American Assoc. of Ophthalmology Fellowship Award	Spanish Society of Ophthalmology's Vth Centenary Congress of Ophthalmology	Best Research Paper
1992	Stephen N. Schindler Award for High Ethical and Humane Standards	Cullen Eye Institute, Baylor College of Medicine	Ethical Standards
1992	Thomas D. and Ruth Byers Heed Fellowship	Heed Ophthalmic Foundation	Leadership Potential

1998, 2000, 2003, and 2008	Edward and Thelma Gaylord Faculty Honor Award for Teaching Excellence	Dean A. McGee Eye Institute	Resident Teaching
2005	Achievement Award	American Academy of Ophthalmology	Overall Contributions to Profession of Ophthalmology
2006	Secretariat Award	American Academy of Ophthalmology	Service to Profession of Ophthalmology
2007	Dean's Certificate for Academic Excellence	College of Public Health, Univ. of Oklahoma Health Sciences Center	Academic Performance
2007	Paul S. Anderson Jr., Ph.D. Award, Outstanding Student in Biostatistics	Department of Biostatistics and Epidemiology, College of Public Health, Univ. of Oklahoma Health Sciences Center	Academic Performance
2009	Silver Fellow	Association for Research in Vision and Ophthalmology	Overall Contributions to Vision Research Community
2010	Gold Fellow	Association for Research in Vision and Ophthalmology	Overall Contributions to Vision Research Community
2010,2012, 2014,2018	Nominated for HMS Excellence in Mentoring Award	Harvard Medical School	Mentoring
2012	Senior Achievement Award	American Academy of Ophthalmology	Overall Contributions to Profession of Ophthalmology
2012, and 2013	Honorable Mention, Compassionate Caregiver Award	Schwartz Center for Compassionate Healthcare	Compassionate Clinical Care
2014	Clinical Teacher of the Year	Department of Ophthalmology Mass. Eye and Ear	Resident Education
2015	Alcon Research Institute Award	Alcon Research Institute	Research Excellence

Report of Funded and Unfunded Projects

Funding Information

Past Funded Projects

1991-1992 PI Cullen Eye Institute

Effect of Photoreactive Dyes on Adenovirus Type 8 Infection of Human Embryonic Kidney and Corneal Epithelial Cells *in vitro*
 The major goal of this study was to determine the effect of photoreactive dyes on adenovirus type 8 replication.

- 1993 PI Florida Lions Eye Bank
 Adenovirus Epithelial Keratitis: Serotype and Clinical Features
 The major goal of this study was to determine the spectrum of ocular adenovirus infection in South Florida.
- 1993-1994 Postdoctoral NRSA Training Grant
 Research Assoc. 1 T32 AI-07372-02
 Pathobiology of Epstein-Barr Virus Infections
 The major goal of this study was to study Epstein-Barr virus pathogenesis. I contributed 100% effort to the training grant, under the supervision of Robert G. Webster, Ph.D., Program Director
- 1994-1995 Postdoctoral St. Jude Children's
 Research Assoc. Research Hospital
 Pathobiology of Epstein-Barr virus infections
 The major goal of this study was to study Epstein-Barr virus pathogenesis. I contributed 100% effort, under the supervision of Robert G. Webster, Ph.D. Program Director.
- 1995-1999 PI Career Development Award, \$160,000
 Research to Prevent
 Blindness, Inc.
 Epidemic Keratoconjunctivitis
 The major goal of this study was to develop *in vitro* models of adenovirus keratitis.
- 1996-1998 Site PI National Eye Institute
 Herpetic Eye Disease Study: Acyclovir Prevention Trial
 The major goal of this study was to determine whether oral acyclovir would reduce rates of HSV keratitis recurrences.
- 1996-1998 PI NIH - National Eye Institute \$579,469
 Mentored Clinical Scientist
 Development Award
 K08 EY00357
 Immunopathology of Adenovirus Keratitis
 The major goals of this study were to 1) to develop *in vitro* tissue culture models of human corneal infection by adenoviruses; 2) elucidate the afferent arm of the host immune response to adenoviral infection *in vitro*; 3) examine the efferent arm of the host immune response to adenoviral

infection *in vivo*; and 4) develop a more physiologic animal model of adenovirus keratitis.

2000-2001	PI	Presbyterian Health Foundation Bridge Grant	\$70,000
<p>Immunopathogenesis of Adenovirus Keratitis This was a bridge grant provided for a fundable score on an unfunded grant.</p>			
2002	Site PI	Bausch & Lomb, Inc.	
<p>A Randomized, Double-Masked, Placebo Controlled, Multi-Centered Comparison of Lotemax (loteprednol etabonate ophthalmic suspension) to Placebo for Treatment of Keratoconjunctivitis Sicca In Patients with Delayed Tear Clearance The major goal of this study was to compare Lotemax (loteprednol etabonate ophthalmic suspension) to placebo for treatment of Keratoconjunctivitis Sicca in patients with delayed tear clearance.</p>			
2002-2003	PI	Presbyterian Health Foundation Equipment Grant	\$50,076
<p>Real-Time PCR in Molecular Pathogenesis The major goal of this award was to assist with the purchase of a real-time PCR machine.</p>			
2002-2005	PI	Lew R. Wasserman Merit Award, Research to Prevent Blindness, Inc.	\$55,000
<p>Genetics of Ocular Adenoviruses The major goal of this study was to characterize the natural history of epidemic keratoconjunctivitis and its viral cause.</p>			
2002-2008	Associate Director	NIH P20 RR017703-05	\$1,500,000
<p>Mentoring Vision Research in Oklahoma The major goals of this study were to strengthen and to augment institutional biomedical research capabilities in vision research through the mentoring of project investigators by experienced, dedicated senior investigators, to broaden the research and mentoring capabilities of early career investigators by providing support for a second research project, to increase the critical mass of vision researchers at the OUHSC by recruiting four vision investigators, to enhance the infrastructure critical for expanding vision research in Oklahoma, to continue to foster collegial and collaborative relationships between COBRE investigators and other scientists, to oversee outcome milestones and expectations that will ensure the success of the COBRE program, and to develop and implement an "exit strategy" that will ensure continuity of the COBRE</p>			

initiatives after the second 5 years of COBRE support. I resigned this position on leaving the institution in June, 2008.

2004-2007	PI	NIH R03 EY015222-04	\$300,000 (total)
		Genetics of Ocular Adenoviruses The major goal of this study was to determine and compare the genetic sequences of clinical adenovirus isolates from patients with EKC.	
2005-2007	PI	Physician Scientist Merit Award, Research to Prevent Blindness, Inc.	\$55,000
		Mouse Model of Adenovirus Keratitis The major goal of this study was to develop a mouse model of adenovirus keratitis.	
2009-2010	PI	NIH 3R01EY013124-09S2	\$192,597 (09)
		Immunopathogenesis of Adenovirus Keratitis The goal of this one-time administrative supplement was to purchase a flow cytometer for use in the parent grant.	
2007-2012	Co-Investigator	NIH R01 EY015534-05	\$250,000 (05)
		CAP37 and Ocular Inflammation (PI: H. Anne Pereira, PhD) The major goals of this study are to test the hypotheses that the regulation of proliferation, chemotaxis, and adhesion of corneal epithelial cells in ocular inflammation is dependent on CAP37 and is mediated through the intracellular signaling molecule protein kinase C, that CAP37 is a biologically relevant mediator in host defense in the eye, and that the anti-inflammatory and immunomodulatory properties of CAP37 are important for host defense in ocular infection.	
2009-2012 (no-cost extension)	PI	NIH 3 RO1 EY 013124-10S1	\$1,174,844 (09-11)
		Immunopathogenesis of Adenovirus Keratitis This application was submitted under NOT-09-058 (Recovery Act Funds for Competitive Revision Applications), which funds expansion of existing grant aims. The major goals of proposal are to 1) sequence all remaining human adenovirus species D genomes, and 2) to determine the evolutionary biology of human adenovirus species D.	

Current Funded Projects

2001-2021	Corresponding PI	NIH 2 R01 EY 013124-17	\$1,000,000
		Immunopathogenesis of Adenovirus Keratitis	

The hypotheses of this study are 1) HAdV-D37 infection of ocular surface cells induces cytokine signatures distinguishable by cell type, 2) HAdV-D37 infection of ocular surface cells activates unique molecular pattern recognition receptors distinguishable by cell type, and 3) cell type-specific pattern recognition receptor activation by HAdV-D37 and intracellular trafficking of HAdV-D37 are interdependent.

2011-2021	PI	NIH R01 EY021558-07	\$1,000,000
Endocytosis in Adenoviral Ocular Pathogenesis (PI: Jaya Rajaiya, PhD) The hypotheses of this study are 1) adenovirus entry and trafficking in corneal epithelial cells requires clathrin mediated endocytosis, 2) adenovirus infection of corneal epithelial cells is controlled by dynamin 2, and 3) signaling molecules unique to clathrin vesicles and caveosomes determine adenovirus trafficking in corneal epithelial cells and fibroblasts, respectively.			
2012-2017	PI	Senior Scientific Investigator Award, Research to Prevent Blindness, Inc.	\$150,000
Evolution of Adenovirus Keratitis Pathogens The major goal of this study is to study the role of homologous recombination in the genesis of new adenoviral corneal pathogens.			

Report of Local Teaching and Training

Teaching of Students in Courses

Baylor College of Medicine

1986-1989	Neuroanatomy	20 hours/year
Medical Students	Teaching Assistant	

University of Oklahoma Health Sciences Center

1995-2008	Medical Student Case Studies	6 hours/year
Medical students	Preceptor	
1996-2008	Advanced Immunology	3 -6 credit hours/year
Graduate students	Instructor	
1998-2007	Advanced Virology	3 -6 credit hours/year
Graduate students	Instructor	
2005-2008	Molecular and Cellular Aspects of Vision	3 hour/year
Graduate students	Instructor	

Harvard Medical School

2012-2015 Graduate students	Advanced Virology (Virology 200) Instructor	1.5 hours/year
2013-2015	Conduct of Science (Medical Sciences 300)	6.5 hours/year

Formal Teaching of Students, Residents, Clinical Fellows and Research Fellows

2005-2008 Ophthalmology residents	Ophthalmology Resident Lecture Series Univ. of Oklahoma Health Sciences Center	One hour/month
2005-2008 Ophthalmology residents, medical students	Ophthalmology Grand Rounds Univ. of Oklahoma Health Sciences Center	One hour/week
2008- Ophthalmology residents, medical students	Ophthalmology Grand Rounds Massachusetts Eye and Ear Infirmary	One hour/week
2008- Ophthalmology residents, medical students	Ophthalmology Resident Lecture Series Massachusetts Eye and Ear Infirmary	Two hours/year
2010-2014 Ophthalmology fellows, residents, medical students, technicians, clinical trial staff	Cornea Conference (Course Director) Massachusetts Eye and Ear Infirmary	One hour/month
2011-2015	Resident Surgical Wet Lab Preceptor	~Sixteen hours/year

Clinical Supervisory and Training Responsibilities

1993-1995	Resident Clinic and Surgery	UT College of Medicine, TN	One day/week, two years
1995-2005	Resident Corneal Surgery	Veterans Administration Medical Center, OUHSC	Three hours/month
1995-2005	Cornea Clinic	Veterans Administration Medical Center, OUHSC	Two hours/ month
1995-2008	Slit Lamp Conference	Univ. of Oklahoma Health Sciences Center	One hour/month
1996-2003	Ophthalmology Trauma Service	Univ. of Oklahoma Health Sciences Center	Primary attending for repair of all ocular trauma
2008-	Slit Lamp Conference	Massachusetts Eye and Ear Infirmary	One hour/month

2011-2014	Cornea Fellows Conference	Massachusetts Eye and Ear Infirmary	One hour/month
2014-2016	Morbidity Conference	Massachusetts Eye and Ear Infirmary	Two hours twice per year

Formally Supervised Trainees

Predoctoral Research Fellows

1998	Robert Sterling, MD	Obstetrician/Gynecologist, Wichita, Kansas	
	Taught him basic molecular biology for one summer and during one school year. Published one manuscript in Investigative Ophthalmology & Visual Science.		
1999	Wendi Joiner, MD	Family Practitioner, Fortuna, CA	
	Mentored in summer research project.		
2001	Robert Byrd, MD	Pathologist, Dartmouth Hitchcock Medical Center	
	Taught him basic molecular biology during summer honors research program in our laboratory.		
2004-2007	Amber Sturges, MD	Ophthalmology Resident, Storm Eye Institute, Medical University of South Carolina, Charleston, South Carolina	
	Supervised retrospective data collection for clinical research project, resulting in one paper published in the journal Ophthalmology.		
2005	James Lai, MD, MPH	Internal Medicine Resident, Johns Hopkins University School of Medicine, Baltimore, Maryland	
	Supervised database creation, leading to in one paper published in the journal Ophthalmology.		
2006-2007	Neda Sadeghi, BA	Medical Student, University of Oklahoma College of Medicine	
	Taught her basic molecular biology, leading to Honors Research Thesis as an undergraduate at the University of Oklahoma.		
2007-2008	Anisa Xhaja, BA	Medical Student, University of Oklahoma College of Medicine	
	Taught her basic molecular biology as an undergraduate at the University of Oklahoma.		
2008-	Dagney Zhu	Medical Student, Harvard Medical School	
	Mentored her in independent research project on immunology of adenovirus keratitis, including summer research experience funded by HMS Office of Enrichment Programs, 2009; 2010 Ocular Immunology and Uveitis Foundation Travel Grant Awardee		
2009, 2012, 2013	Mirja Ramke	Medical Student, Medical University of Hannover	

		Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (2012); Postdoctoral Fellow (2013)
		Mentored her in mouse adenoviral keratitis model (2009) as part of planned collaboration with her mentor, Dr. Albert Heim, Medical University of Hannover. Supervised her work (2012) on an independent project studying role of bone marrow derived cells in adenovirus keratitis, and in development of replicating human adenovirus in mouse models
2009	Bryan Kim	Columbia University School of Medicine Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (Summer, 2009)
		Mentored him in independent research project on surgical restoration of corneal blindness in mucous membrane pemphigoid.
2013	Annie Nguyen	Harvard Medical School Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (Summer, 2013)
		Mentored her in independent research project on ophthalmic complications of mycoplasma mucositis
2013	Gelareh Homayounfar	Harvard Medical School Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (Fall, 2013)
		Mentored her in independent research project on outcome study of keratoprosthesis implantation in elderly recipients.
2013-2014	Christina Grassi	Harvard Medical School Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (One year research experience)
		Mentored her in independent research project on keratoprosthesis-associated sterile vitritis. Graduated May, 2015 with M.D. “with Honors in a Special Field <i>Magna cum Laude</i> ”, for thesis: Idiopathic Vitritis: An Elusive Complication of Boston Keratoprosthesis Surgery
2015	Hong-Gam Le	University of Michigan Medical School Predoctoral Fellow, Massachusetts Eye and Ear Infirmary – Harvard Medical School (Summer research experience)
		Mentored her in independent research project on ICU care of SJS/TEN. Graduated May, 2015 with M.D. with thesis Honors; Published paper in

Burns

Postdoctoral Research Fellows

- 1999-2002 Kanchana Natarajan, Ph.D. Instructor, Dept of Pathology, University of Texas - M.D. Anderson Cancer Center, Houston, Texas
Postdoctoral Travel Award: American Society for Virology 19th Annual Meeting, July, 2000; NEI Travel Award: ARVO Annual Meeting, May, 2001. Published 4 manuscripts, 3 as first author, one in the Journal of Immunology.
- 2001-2004 Maitreyi Rajala, Ph.D. Virology Gp, Int. Ctr. Genetic Engineer. Biotech., New Delhi, India
Published first author paper in Journal of Virology, and second author in Journal of Immunology.
- 2003-2005 Jingnan Xiao, M.D., Ph.D. Asst. Prof, Biology, Oklahoma Christian University, Edmond, Oklahoma
Published two first author papers. Pathology resident, University of Wisconsin – Madison.
- 2005 Jayabarathy Rajaiya, Ph.D. Assistant Professor, Harvard Medical School
Published two papers, and promoted to Research Instructor, University of Oklahoma College of Medicine, before moving with Dr. Chodosh to Massachusetts Eye and Ear Infirmary.
- 2005 May Nour, Ph.D. Neurology Attending, UCLA College of Medicine, 2010
Presbyterian Foundation Honors Research Program Awardee; now Neurology resident, University of California – Los Angeles.
- 2008-2009 Ashish V. Chintakuntlawar, M.D., Ph.D. Assistant Professor, Mayo Clinic
Published five papers and one chapter
- 2010-2014 Mohammad Yousuf, PhD, Postdoctoral Research Fellow, UTSW, Dallas Tx
2013 ASV Travel Award; working on lipid raft-induced signaling
- 2011- Jeong Yoon Lee, PhD
2012 and 2013 ASV Travel Awards; working on viral transcriptome and homologous recombination
- 2013-2016 Mirja Ramke, MD Ophthalmology Resident, Switzerland
Published 5 papers with one pending
- 2014- Mohamed Ismail, PhD
Studying host transcription factor binding to viral DNA
- 2014-2016 Hajirah N. Saeed, MD
Developed project on Stevens-Johnson syndrome (80% commitment)
Published 7 papers
- 2016-2018 Swapna S. Shanbhag, MD
Prepared systematic reviews on chemical ocular burn and wrote

manuscripts as first author on Stevens-Johnson syndrome

Faculty

- 2005-2008 Raju Rajala, Ph.D. Associate Professor with tenure, Departments of Ophthalmology and Cell Biology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Acted as COBRE Mentor. Accomplishments during mentorship included 2 R01 grants, and appointment to Associate Professor and tenure.
- 2004-2007 Wei Cao, MD, Ph.D. Now deceased. Was Assistant Professor of Ophthalmology at University of Oklahoma Health Sciences Center, Oklahoma City, OK
Acted as COBRE Mentor. Assisted career development and grant writing skills. Had pending R01 application at the time of his death due to illness.
- 2008- Jaya Rajaiya, PhD Instructor, Department of Ophthalmology, Harvard Medical School
Act as scientific mentor. Assist in career development and grant writing skills. Helped with successful R01 application.
- 2004-2007 Xiaohong Zhou, MD, PhD Research Associate, Department of Ophthalmology, Harvard Medical School
Act as scientific mentor. Assist in career development and grant writing skills.
- 2008- Joseph B. Ciolino, MD Assistant Professor, Department of Ophthalmology, Harvard Medical School
Act as K08 co-mentor with Dan Kohane, MD, in a project to develop a drug eluting contact lens.
- 2009-2010 Pedram Hamrah, MD Assistant Professor, Department of Ophthalmology, Harvard Medical School
Acted as mentor in a translational project in real time noninvasive imaging of conjunctival melanoma.
- 2014- Eleftherios Paschalis, PhD Instructor, Mass. Eye & Ear, HMS
Mentor on chemical burn project and collaborator in new technology development projects
- 2015- Suzanne Fleiszig, MD, Director, Oculoplastic Service and Associate Professor, Mass. Eye & Ear, HMS
- 2016- Hajirah N. Saeed, MD, Instructor, Mass. Eye & Ear, HMS
- 2017- Lucy Shen, MD, Assistant Professor of Ophthalmology, Mass. Eye & Ear, HMS
- 2017- Matthew Gardner, MD, Assistant Professor of Ophthalmology, Mass. Eye & Ear, HMS
- 2017- Katie Luo, MD, Instructor, Mass. Eye & Ear, HMS

Graduate Students

- 2003-2008 Ashish V. Chintakuntlawar, M.D., Ph.D. Hematology/Oncology Fellow, Mayo Clinic, Rochester, MN

Committee chair. Recipient of 2007 ARVO International Travel Grant, 2007: OUHSC Graduate Student Association Travel Grant; 2008 American Society of Virology Travel Grant; Red Ribbon Award, 2007 FASEB Summer Research Conference, Snowmass, Colorado.

2005-2007	Raniyah Ramadan, Ph.D. Graduate committee member.	Deceased
2005-2008	Brandt Wiskur, Ph.D. Graduate committee member.	Center for Neuroscience, OU College of Medicine
2006-2011	Christopher Robinson, Ph.D. Committee Chair. Recipient of 2007 National Eye Institute Travel Grant, 2007 and 2008 American Society of Virology Travel Grants; 1 st Place: Best Scientific Poster, 2009; 9 th International Adenovirus Meeting, Dogoboko, Hungary	Postdoctoral Fellow: University of Texas – Southwestern, Dallas, TX
2007-2009	Ivana Ivanovic, Ph.D. Graduate committee member.	Current position unknown
2013	Fernanda Ferrera Graduate student rotation	Harvard Virology Graduate Program
2014-	Christopher L. Moore Graduate committee member	Department of Chemistry Massachusetts Institute of Technology
2014-	Justin Iampietro Graduate committee member	Harvard Virology Graduate Program
2014-	Eryn Blass Graduate committee member	Harvard Virology Graduate Program

Ophthalmology Residents

1995-1997	David Zuech, M.D. Trained in histology; performed research project resulting in poster presentation at ARVO.	Private practice, Enid, OK
2002-2004	Donald U. Stone, M.D. Trained in histology. Published 4 manuscripts while an ophthalmology resident.	Associate Professor of Ophthalmology Wilmer Eye Institute, Johns Hopkins
2006-2008	Gene Chen, M.D. Supervised resident research project on mouse model of pigmentary glaucoma.	Medical Retina Fellow, Bascom Palmer Eye Institute, University of Miami, FL
2007-2008	Scott Guess, M.D.	Private practice, Missoula, MT

Worked on clinical research fellowship that began with systematic review (published in *The Ocular Surface*), and expanded to establish community standard of care for herpes simplex keratitis (manuscript in preparation).

2011-2013 Sotiria Palioura, M.D., PhD Faculty, Bascom Palmer Eye Institute

Worked on various projects including keratoprosthesis surgery. Published 4 chapters and three original articles

2014-2016 Emma Davies, MD Fellow, Massachusetts Eye and Ear

2016- Elizabeth Rossin, MD Resident, Massachusetts Eye and Ear

Clinical Fellows (Cornea and External Diseases and Surgery)

Please note that I was either the sole or one of two principal mentors for the Cornea fellow during my 13 years at the University of Oklahoma, but am one of eleven faculty on the Cornea Service at the Massachusetts Eye and Ear Infirmary. In 2010, I became Fellowship Director for Cornea at the Massachusetts Eye and Ear Infirmary.

1995-1996 Robert F. Friedman, M.D. Private Practice, Fredericksburg, Virginia
One-on-one, daily supervision in clinic and operating theater.

1996-1997 Debra A. Graham, M.D. Private Practice, North Bend, Oregon
One-on-one, daily supervision in clinic and operating theater.

1997-1998 Steven W. Fite, M.D. Private Practice, Clinton Township, Michigan
One-on-one, daily supervision in clinic and operating theater.

1998-1999 Heath L. Lemley, M.D. Private Practice, St. Joseph, Michigan
One-on-one, daily supervision in clinic and operating theater.

1999-2000 Ranjan Malhotra, M.D. Private Practice, St. Louis, Missouri
One-on-one, daily supervision in clinic and operating theater.

2000-2001 Rainna Bahadur, M.D. Private Practice, Biloxi, Mississippi
One-on-one, daily supervision in clinic and operating theater.

2001-2002 Ahmed Nasrullah, M.D. Private Practice, Fairfax VA, and Clinical Instructor, George Washington University Department of Ophthalmology
One-on-one, daily supervision in clinic and operating theater.

2002-2003 Reena Patel, M.D. Private Practice, Wichita, Kansas
One-on-one, daily supervision in clinic and operating theater.

2003-2004 In C. Shin, M.D. Private Practice, Montgomery, Alabama
One-on-one, daily supervision in clinic and operating theater.

2004-2005 Monali Sakhalkar, M.D. Assistant Professor of Ophthalmology, University of Florida, Gainesville, FL
One-on-one, daily supervision in clinic and operating theater.

2005-2006 Jeff Boomer, M.D. Private Practice, Kansas City, Kansas
One-on-one, daily supervision in clinic and operating theater.

2006-2007 Rahul Patel, M.D. Private Practice, Manchester, New Hampshire
One-on-one, daily supervision in clinic and operating theater.

2007-2008	Manuj Kapur, M.D.	Assistant Professor, University of Texas Medical Branch, Galveston, TX
	One-on-one, daily supervision in clinic and operating theater.	
2008-2009	Jessica Ciralsky, MD	Assistant Professor, Weill Cornell Medical College, New York, NY
	Frequent (at least weekly) supervision in clinic and operating theater.	
2008-2009	Joseph Ciolino, MD	Assistant Professor, Harvard Medical School, Mass Eye and Ear Infirmary
	K08 co-mentor	
	Frequent (at least weekly) supervision in clinic and operating theater	
2008-2009	Mira Lim, MD	Private Practice, Oakland, California
	Frequent (at least weekly) supervision in clinic and operating theater.	
2008-2009	Pauline Lim, MD	Pacific Medical Center, California
	Frequent (at least weekly) supervision in clinic and operating theater.	
2008-2009	Sangita Patel, MD, PhD	Assistant Professor, State University of New York – Buffalo
	Frequent (at least weekly) supervision in clinic and operating theater.	
2009-2010	Anne Keating, MD	Private Practice, South Dakota
	Frequent (at least weekly) supervision in clinic and operating theater.	
2009-2010	Ginny Kullman, MD	Ochsner Medical Center, Louisiana
	Frequent (at least weekly) supervision in clinic and operating theater.	
2009-2010	Radhika Kumar, MD	Private Practice, New Jersey
	Frequent (at least weekly) supervision in clinic and operating theater.	
2009-2010	Tasha Tanhehco, MD	Krieger Eye Institute, Maryland
	Frequent (at least weekly) supervision in clinic and operating theater.	
2009-2010	Aisha Traish, MD	Assistant Professor, Univ Illinois - Chicago
	Frequent (at least weekly) supervision in clinic and operating theater.	
2010-2011	J. Richard Townley, MD	
	Frequent (at least weekly) supervision in clinic and operating theater.	
2010-2011	Kristen Hawthorne, MD	Private practice, Austin, TX
	Frequent (at least weekly) supervision in clinic and operating theater.	
2010-2011	Janie Yoo, MD	Lead ophthalmologist, Zambia
	Frequent (at least weekly) supervision in clinic and operating theater.	
2010-2011	John Clements, MD	Lead ophthalmologist, Angola
	Frequent (at least weekly) supervision in clinic and operating theater.	
2010-2012	Houman Hemmati, MD, PhD	Assistant Professor, Univ Vermont
	Frequent supervision in clinic and operating theater.	
2011-2012	Sahar Kohanim, MD	Clinical Instructor, Beth Israel Hospital, Boston MA
	Frequent supervision in clinic and operating theater.	
2011-2012	Zhongjui Luo, MD, PhD	Clinical Instructor, Brigham and Women's Hospital, Boston, MA
	Frequent supervision in clinic and operating theater.	
2011-2012	Christina Prescott, MD, PhD	Clinical Instructor, Wilmer Eye Institute, Johns Hopkins School of Medicine
	Frequent supervision in clinic and operating theater.	

2011-2013	Rony Sayegh, MD	Assistant Professor, Dept. Ophthalmology, Case Western Reserve University School of Medicine, Cleveland, OH
	Frequent supervision in clinic and	operating theater.
2011-2013	Anita Shukla, MD	Eye Health Services, Boston, MA
	Frequent supervision in clinic and	operating theater.
2012-2013	Hyunjoo Lee, MD, PhD	Instructor, Boston University Dept. of Ophthalmology, Boston, MA
	Frequent supervision in clinic and	operating theater.
2012-2013	Han-Ying Peggy Chang, MD	Instructor, Dept Ophthalmology, Mass. Eye & Ear, Harvard Medical School, Boston, MA
	Frequent supervision in clinic and	operating theater.
2012-2014	Sara Bozorg, MD,	The Medical Eye Center, Manchester NH
	Frequent supervision in clinic and	operating theater.
2012-2014	Cecily Hamill, MD, PhD	Boston Eye Physicians and Surgeons, Brookline, MA
	Frequent supervision in clinic and	operating theater.
2013-2014	Ramez Haddadin, MD	Cook County Health and Hospitals Systems, Chicago, IL
	Frequent supervision in clinic and	operating theater.
2013-2014	Deepika Shah, MD, MPH	Fromer Eye Centers, NY, NY
	Frequent supervision in clinic and	operating theater.
2013-2015	Marie-Claude Robert, MD	Assistant Professor, University of Montreal, Quebec, Canada
	Frequent supervision in clinic and	operating theater.
2013-2015	Duna Raouf, MD	Harvard Eye Associates, Laguna Hills, CA
	Frequent supervision in clinic and	operating theater.
2014-2015	Haumith Khan-Farooqi, MD	Eye Physicians of Austin, Tx
	Frequent supervision in clinic and	operating theater.
2014-2015	Sunali Goyal, MD	Assistant Professor, Department of Ophthalmology, University of Arkansas for Medical Sciences, Little Rock, AR
	Frequent supervision in clinic and	operating theater.
2014-2016	Haji Saeed, MD	Instructor, Dept Ophthalmology Mass. Eye & Ear, Harvard Medical School
	Frequent supervision in clinic and	operating theater.
2015-2016	Steven Greenstein, MD	Clinical Instructor, UMDNJ, Newark NJ
	Frequent supervision in clinic and	operating theater.
2015-2016	Shaohui Liu, MD	Assistant Professor, Indiana Univ Medical School, Indianapolis, IN
	Frequent supervision in clinic and	operating theater.
2015-2016	Yuna Rapoport, MD	New York City, NY
2015-2017	Jia Yin, MD, PhD	Instructor, Dept Ophthalmology Mass. Eye & Ear, Harvard Medical School
	Frequent supervision in clinic and	operating theater.

2016-2017	Emma Davies, MD	Instructor, Dept Ophthalmology Mass. Eye & Ear, Harvard Medical School
	Frequent supervision in clinic and operating theater.	
2016-2017	Charisma Evangelista, MD	US Air Force, San Antonio, Tx
	Frequent supervision in clinic and operating theater.	

Local Invited Presentations

1990	Nosocomial ophthalmomyiasis externa. Cullen Eye Institute Alumni Meeting, Houston, Texas	Presenter
1991	Rose bengal inhibits HSV-1 replication in epithelial cells in vitro. Cullen Eye Institute Alumni Meeting, Houston, Texas	Presenter
1991	Corneal conditions associated with diseases of the orbit and ocular adnexa. Cullen Eye Institute, Houston, Texas	Presenter
1992	Effect of photoreactive dyes on adenovirus infection in vitro. Cullen Eye Institute Alumni Meeting, Houston, Texas	Presenter
1992	Congenital corneal staphyloma. Miami, Florida	Presenter
1992	Recurrent corneal erosion. Bascom Palmer Eye Institute, Miami, Florida	Presenter
1993	Rational anti-inflammatory therapy in bacterial endophthalmitis. Bascom Palmer Eye Institute, Miami, Florida	Presenter
1993	Adenovirus epithelial keratitis. Florida Lions Eye Bank, Miami, Florida	Invited Speaker
1993	Staining characteristics and antiviral activity of sulforhodamine B and lissamine green B. Residents' Day, Bascom Palmer Eye Institute, Miami, Florida	Presenter
1994	Non-herpetic dendritic keratitis. Ophthalmology Alumni & Residents' Day University of Tennessee College of Medicine, Memphis, Tennessee	Presenter
1994	Treatment of intraepithelial neoplasia of the conjunctiva and cornea with all-trans retinoic acid ointment. Academy of Ophthalmology, Memphis, Tennessee	Presenter

- 1995 Detection of Epstein-Barr virus genome in herpes simplex-negative epithelial keratitis. Presenter
Ophthalmology Alumni & Residents' Day, University of Tennessee College of Medicine, Memphis, Tennessee
- 1995 The shipyard eye; The story of epidemic keratoconjunctivitis. Invited Speaker
Oklahoma Lions Eye Bank, Oklahoma City, Oklahoma
- 1996 Comparative anatomy of mammalian conjunctival lymphoid tissue. Invited Speaker
Dept Pathology, University of OK Health Sciences Center, Oklahoma City, Oklahoma
- 1996 The herpetic eye disease study / acyclovir prevention trial. Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 1996 Conjunctiva-associated lymphoid tissue – fact or fiction? Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 1997 Immunopathogenesis of epidemic keratoconjunctivitis. Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 1998 Adenovirus keratitis: infectivity, inflammation, and molecular signaling. Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 1999 Adenovirus keratitis: update on molecular pathogenesis. Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 1999 Conjunctival immunology. Presenter
Vision Club, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 2000 Adenovirus keratitis. Presenter
Residents & Alumni Meeting, Department of Ophthalmology, Dean A. McGee Eye Institute, Oklahoma City, Oklahoma
- 2000 Age related anterior segment issues. Invited Speaker
The Conference on Presbyopia, Dean McGee Eye Institute, Oklahoma City, Oklahoma
- 2001 Keratocytes: sentinel cells in the human corneal stroma. Invited Speaker
Interdisciplinary Seminar Series; Dept Cell Biology,

University of Oklahoma Health Sciences Center,
Oklahoma City, Oklahoma

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| 2001 | New developments in the pathogenesis and therapy of Sjogren's dry eye.
Oklahoma City Sjogren's Syndrome Support Group Spring Meeting,
Mercy Health Systems, Oklahoma City, Oklahoma | Presenter |
| 2001 | Antigen presentation in conjunctival lymphoid tissue.
Residents & Alumni Meeting, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2002 | The epidemiology of pink eye: endemic keratoconjunctivitis?
Residents & Alumni Meeting, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2003 | Cyclosporine use in dry eye.
Residents & Alumni Meeting, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2003 | The evolving treatment of ocular surface squamous neoplasia.
Four State Regional Ophthalmology Conference,
Grand Lake, Oklahoma | Presenter |
| 2004 | Epidemic keratoconjunctivitis.
Faculty Seminar Series, Dept. Microbiology & Immunology,
University of Oklahoma Health Sciences Center,
Oklahoma City, Oklahoma | Invited Speaker |
| 2004 | The slit lamp as a diagnostic tool in cornea and external disease.
Residents & Alumni Meeting, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2004 | Keratoprosthesis.
Residents & Alumni Meeting, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2005 | What's new in cornea: HSV keratitis.
Christian Ophthalmology Society, 29 th Annual Meeting, Oklahoma | Invited Speaker |
| 2006 | New paradigms in adenovirus keratitis.
OU Vision Club, Department of Ophthalmology,
Dean A. McGee Eye Institute, Oklahoma City, Oklahoma | Presenter |
| 2009 | Genomics and evolution of human adenovirus species D.
Schepens Eye Research Institute, Harvard Medical School, | Invited Speaker |

- Special Seminar Series
Boston, Massachusetts
- 2009 Genomics of species D human adenoviruses. Invited Speaker
Department of Ophthalmology – Harvard Medical School
Annual Meeting
Boston, Massachusetts
- 2010 Advances in the Boston keratoprosthesis. Faculty Sponsor
Twentieth Annual Claes H. Dohlman, MD, PhD Fellows Course
Technological Advances Shaping the Future of Ophthalmology
Massachusetts Eye and Ear Infirmary, Department of Ophthalmology
Harvard Medical School
- 2010 Pseudomonas keratitis. Invited Speaker
New Frontiers in Corneal Research
Massachusetts Eye and Ear Infirmary, Department of Ophthalmology
Harvard Medical School
- 2011 The persistent dilemma of herpetic keratitis Invited Speaker
Veterans Administration Boston Healthcare System
- 2011 Stevens Johnson syndrome / toxic epidermal necrolysis Invited Speaker
New Frontiers in Corneal Research
Massachusetts Eye and Ear Infirmary, Department of Ophthalmology
Harvard Medical School
- 2011 Mucous membrane pemphigoid: a model of conjunctival autoimmunity Invited Speaker
New Frontiers in Corneal Research
Massachusetts Eye and Ear Infirmary, Department of Ophthalmology
Harvard Medical School
- 2011 Old and new paradigms in adenovirus ocular pathogenesis and evolution Invited Speaker
Harvard Virology Program Seminar
Harvard Medical School
- 2012 Acute management of ocular Stevens Johnson syndrome – toxic Invited Speaker
epidermal necrolysis
Burn Service
Brigham & Women’s Hospital
Boston, Massachusetts
- 2012 Adenovirus evolution and pathogenesis Invited Speaker
Harvard Virology Program Annual Retreat
Sturbridge, Massachusetts

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| 2012 | Human adenovirus evolution and corneal pathogenesis
Harvard Cornea Center of Excellence Scientific Retreat
Cambridge, Massachusetts | Invited Speaker |
| 2012 | Boston keratoprosthesis in severe cicatricial corneal blindness
Harvard Cornea Center of Excellence Scientific Retreat
Cambridge, Massachusetts | Invited Speaker |
| 2013 | Rational classification and evidence-based treatment of herpes simplex
virus keratitis
Harvard Medical School Department of Ophthalmology
Grand Rounds
Boston, Massachusetts | Invited Speaker |
| 2013 | Significance of adenovirus genomics for corneal pathogenesis
Harvard Medical School Department of Ophthalmology
Cornea Center of Excellence
International Workshop
Boston, Massachusetts | Invited Speaker |
| 2013 | Evolution of human adenovirus species D
Committee on Virology
Harvard University
Boston, Massachusetts | Invited Speaker |
| 2014 | Boston keratoprosthesis designs
Boston Keratoprosthesis Workshop
Massachusetts Eye and Ear Infirmary
Boston, Massachusetts | Invited Speaker |
| 2014 | Use of corticosteroids after Boston keratoprosthesis
Boston Keratoprosthesis Workshop
Massachusetts Eye and Ear Infirmary
Boston, Massachusetts | Invited Speaker |
| 2014 | Evolution of human adenovirus species D
Protein Folding and Virus Evolution and Adaptation Workshop
Massachusetts Institute of Technology
Boston, Massachusetts | Invited Speaker |
| 2016 | Infectious Disease Institute
Harvard Medical School Department of Ophthalmology Retreat
New Castle, New Hampshire | Invited Speaker |
| 2017 | Improving interdisciplinary care of Stevens-Johnson syndrome/toxic
epidermal necrolysis | Invited Speaker |

Harvard Medical School Department of Dermatology Grand Rounds
Boston, Massachusetts

- 2017 The evolution of pink eye: how old [adenovirus] becomes new again. Invited Speaker
Harvard Medical School Department of Ophthalmology Grand Rounds
Boston, Massachusetts
- 2017 Boston keratoprosthesis: then and now. Invited Speaker
Biennial Cornea Conference
Boston, Massachusetts
- 2011 Evolution of human adenovirus species D Invited Speaker
Harvard Virology Program Seminar
Harvard Medical School

Report of Regional, National and International Invited Teaching and Presentations

Regional, National and International Invited Presentations and Courses

Regional

- 1994 Viral infection of human corneal epithelium. Visiting Professor
Vanderbilt University School of Medicine, Nashville, Tennessee
- 1994 Intraepithelial neoplasia of the cornea and conjunctiva. Visiting Professor
Vanderbilt University School of Medicine, Nashville, Tennessee
- 1998 Expression of CAP37, a multifunctional inflammatory mediator, Lecturer
in corneal epithelial cells in a rabbit model of *Staphylococcus aureus* keratitis.
Oklahoma Center for Neuroscience Annual Symposium,
Oklahoma City, Oklahoma
- 1999 Adenovirus-induced subepithelial corneal infiltrates: Presenter
A possible role for Interleukin-8.
Bascom Palmer Eye Institute, Miami, Florida
- 1999 Ophthalmology Grand Rounds Invited Speaker
University of Texas Health Sciences Center at San Antonio,
San Antonio, Texas
- 2000 Pathogenesis of adenovirus keratitis. Visiting Professor
Jules Stein Eye Institute, Los Angeles, California
- 2000 Immunopathogenesis of adenovirus keratitis. Invited Speaker
Medical College of Georgia, Dept of Ophthalmology,
Augusta, Georgia

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| 2000 | Molecular pathogenesis of adenovirus keratitis.
Cole Eye Institute, Cleveland Clinic, Cleveland, Ohio | Visiting Professor |
| 2000 | Ocular surface squamous neoplasia.
Kansas State Ophthalmological Society, Winter Focus, Cornea & External Disease Update, Wichita, Kansas | Guest Speaker |
| 2001 | Case studies in corneal pathogenesis.
Dept of Ophthalmology, University of Florida
College of Medicine, Gainesville, Florida | Visiting Professor |
| 2001 | Virology of the ocular surface: How viruses cause corneal and external disease.
Ocular Microbiology: A Program in Cornea and External Disease,
Dept of Ophthalmology, University of Florida College of Medicine,
Gainesville, Florida | Invited Speaker |
| 2001 | A simplified approach to the management of herpes simplex virus keratitis.
Ocular Microbiology: A Program in Cornea and External Disease,
Dept of Ophthalmology, University of Florida College of Medicine,
Gainesville, Florida | Invited Speaker |
| 2001 | Shipyard Eye: Old and new concepts in the pathogenesis and therapy of adenovirus keratitis.
Ocular Microbiology: A Program in Cornea and External Disease,
Dept of Ophthalmology, University of Florida College of Medicine,
Gainesville, Florida | Invited Speaker |
| 2001 | Basics of ocular virology and herpes simplex keratitis.
Dept Ophthalmology, University of Mississippi
Medical Center, Jackson, Mississippi | Visiting Professor |
| 2001 | A molecular mechanism for chemokine expression by keratocytes in adenovirus keratitis.
2001 Biennial Cornea Conference. Schepens Eye Research Institute,
Harvard Medical School, Boston, Massachusetts | Invited Speaker |
| 2002 | Therapy of adenovirus keratitis.
40 th Anniversary Scientific Meeting. Bascom Palmer Eye Institute,
Miami, Florida | Invited Speaker |
| 2003 | Masao Okumoto Lecture: More than Just Pink Eye; Musings on the Pathogenesis of Epidemic Keratoconjunctivitis.
Francis I. Proctor Foundation for Research in Ophthalmology, | Invited Speaker |

Asilomar, California

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| 2005 | Herpes simplex virus keratitis made simple.
Washington University – St. Louis Department of Ophthalmology,
St. Louis, Missouri | Visiting Professor |
| 2005 | Slit lamp conference case studies.
Washington University – St. Louis Department of Ophthalmology,
St. Louis, Missouri | Visiting Professor |
| 2005 | Host mechanisms in adenovirus keratitis.
Vision Science Seminar Series. Washington University – St. Louis
Department of Ophthalmology, St. Louis, Missouri | Visiting Professor |
| 2005 | Ocular surface squamous neoplasia.
St. Louis Ophthalmology Society Meeting, St. Louis, Missouri | Guest Speaker |
| 2005 | Chemokine signaling pathways in corneal fibroblasts.
2005 Cullen Symposium on Cornea and Ocular Surface Inflammation
Cullen Eye Institute, Baylor College of Medicine, Houston, Texas | Invited Speaker |
| 2006 | Cornea Grand Rounds
Department of Ophthalmology, Harvard Medical School,
Boston, Massachusetts | Invited Speaker |
| 2006 | New paradigms in adenovirus keratitis.
Schepens Eye Research Institute, Harvard Medical School,
Boston, Massachusetts | Invited Speaker |
| 2006 | Ocular surface squamous neoplasia.
Department of Ophthalmology, Harvard Medical School,
Boston, Massachusetts | Invited Speaker |
| 2006 | Topical therapies for ocular surface squamous neoplasia.
FI Proctor Foundation, Department of Ophthalmology,
University of California-San Francisco, California | Invited Speaker |
| 2006 | Treatment of ocular surface squamous neoplasia.
University of Illinois Eye Center 4 th Annual Corneal, Cataract
and Refractive Surgery Symposium, Chicago, Illinois | Special Lecturer |
| 2006 | Simplified management of herpes simplex keratitis.
University of Illinois Eye Center 4 th Annual Corneal, Cataract
and Refractive Surgery Symposium, Chicago, Illinois | Invited Speaker |
| 2007 | Ophthalmology Grand Rounds | Visiting Professor |

- Dept of Ophthalmology,
University of California-San Francisco, California
- 2007 Pragmatic and evidence-based approach to diagnosis and therapy of Herpes simplex keratitis. Alta Lecturer
Dept of Ophthalmology,
University of California-San Francisco, California
- 2007 Slit lamp conference. Visiting Professor
Dept of Ophthalmology,
University of California-San Francisco, California
- 2007 Molecular mechanisms in adenovirus keratitis. Oxyopia Series
University of California-Berkeley Vision Science Graduate Program,
Berkeley, California Visiting Professor
- 2007 Molecular mechanisms in adenovirus keratitis. Invited Speaker
Department of Microbiology & Immunology,
Dartmouth Medical School, Hanover, New Hampshire
- 2007 A practical and evidence-based approach to herpes simplex keratitis. Edward W. Purnell
13th Annual Faculty, Resident & Alumni Research Day,
Department Professor of Ophthalmology,
Case Western Reserve University School of Medicine,
Cleveland, Ohio Visiting Professor
- 2007 New paradigms in adenovirus keratitis. Edward W. Purnell
13th Annual Faculty, Resident & Alumni Research Day,
Department Professor of Ophthalmology,
Case Western Reserve University School of Medicine,
Cleveland, Ohio Visiting Professor
- 2007 Virus-associated molecular pattern recognition in the cornea. Visiting Professor
Department of Ophthalmology, University of California
San Francisco, California
- 2007 Herpes simplex keratitis – an evidence-based approach. Visiting Professor
Casey Eye Institute, Department of Ophthalmology, Oregon Health
& Science University, Portland, Oregon
- 2008 Virus-associated molecular pattern recognition in the corneal stroma. Visiting Professor
Department of Ophthalmology, Massachusetts Eye & Ear Infirmary,
Harvard Medical School, Boston, Massachusetts
- 2008 A simplified and evidence-based approach to herpes simplex virus keratitis. Visiting Professor

	Department of Ophthalmology, Massachusetts Eye & Ear Infirmary, Harvard Medical School, Boston, Massachusetts	
2008	Novel therapeutic options for ocular surface squamous neoplasia. Department of Ophthalmology, Boston University School of Medicine, Boston, Massachusetts	Visiting Professor
2008	Concepts in Keratoprosthesis. Pearls for Practice: Cornea and External Disease, University of Florida, Gainesville, Florida	Guest Speaker
2008	Evidence-based treatment of HSV keratitis. Tufts New England Eye Center, Boston, Massachusetts	Visiting Professor
2008	Corneal unknowns. Tufts New England Eye Center, Boston, Massachusetts	Visiting Professor
2008	Treatment of ocular surface squamous neoplasia. Pearls for Practice: Cornea and External Disease, University of Florida, Gainesville, Florida	Guest Speaker
2008	Louis J. Girard Distinguished Alumnus Lecture: Virus-associated molecular pattern recognition in adenovirus keratitis. 2008 Resident's Day Meeting, Cullen Eye Institute, Baylor College of Medicine, Houston, Texas	Invited Speaker
2008	Differential roles of adenovirus-associated molecular patterns in adenovirus keratitis. University of Pittsburgh Department of Ophthalmology, Scholars in Vision Series, Pittsburgh, Pennsylvania	Visiting Professor
2008	Keratoprosthesis paradigms. Cleveland Ophthalmological Society, Cleveland, Ohio	Guest Speaker
2008	HSV keratitis, simplified. Cleveland Ophthalmological Society, Cleveland, Ohio	Guest Speaker
2008	Concepts in Keratoprosthesis. Pearls for Practice: Cornea and External Disease. University of Florida, Gainesville, Florida	Guest Speaker
2008	HSV keratitis made easy. Pearls for Practice: Cornea and External Disease, University of Florida, Gainesville, Florida	Guest Speaker
2008	Slit lamp unknowns.	Guest Speaker

	Pearls for Practice: Cornea and External Disease, University of Florida, Gainesville, Florida	
2008	Slit lamp unknowns. Duke Eye Center, Durham, North Carolina	Visiting Professor
2008	Virus-associated molecular patterns in a mouse model of adenovirus keratitis. Chairman's Guest Lecture, Duke Eye Center, Durham, North Carolina	Visiting Professor
2009	New paradigms in cornea replacement with keratoprosthesis Washington Association of Eye Physicians, Seattle Washington	Guest Speaker
2009	Diffusion of innovation in herpes simplex keratitis Washington Association of Eye Physicians, Seattle Washington	Guest Speaker
2009	Treatment options in ocular surface squamous neoplasia Department of Ophthalmology, University of Washington School of Medicine	Visiting Professor
2009	Slit lamp studies Department of Ophthalmology, University of Washington School of Medicine	Visiting Professor
2009	Herpes simplex virus keratitis: evidence or eminence, University of Missouri-Kansas City School of Medicine, Kansas City, Missouri	Invited Speaker
2009	Keratoprosthesis paradigms for corneal replacement. The Larry Piebenga, MD, Annual Lecture, University of Missouri-Kansas City School of Medicine, Kansas City, Missouri	Invited Speaker
2009	Adenovirus-associated molecular patterns. 26 th Biennial Cornea Research Conference, Schepens Eye Research Institute, Boston, Massachusetts	Invited Speaker
2009	Evidence-based therapy for ocular surface squamous neoplasia. New England Ophthalmological Society 725 th Meeting Boston, Massachusetts	Invited Speaker
2010	Dissemination of knowledge from randomized clinical trials in herpes simplex virus keratitis. 730 th Meeting of the New England Ophthalmological Society Boston, Massachusetts	Invited Speaker

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| 2010 | Herpes simplex keratitis made easy.
2010 South East Eye Annual Regional Meeting
Destin, Florida | Invited Speaker |
| 2010 | Revolution in therapy for ocular surface squamous neoplasia.
2010 South East Eye Annual Regional Meeting
Destin, Florida | Invited Speaker |
| 2010 | Keratoprosthesis for corneal blindness in cicatricial ocular surface diseases.
2010 South East Eye Annual Regional Meeting
Destin, Florida | Invited Speaker |
| 2010 | Paradigms in corneal replacement.
North Shore Long Island Jewish Health System
Department of Ophthalmology
Great Neck, New York | Visiting Professor |
| 2010 | HSV keratitis.
North Shore Long Island Jewish Health System
Department of Ophthalmology
Great Neck, New York | Visiting Professor |
| 2010 | Keratoprosthesis paradigms for hopeless corneal blindness.
Milwaukee Ophthalmology Society
Milwaukee, Wisconsin | Guest Speaker |
| 2010 | HSV keratitis.
Medical College of Wisconsin, Department of Ophthalmology
Milwaukee, Wisconsin | Visiting Professor |
| 2010 | The Boston keratoprosthesis type II: an alternative for corneal blindness in cicatricial ocular surface disease.
Weill Cornell Medical College
New York, New York | Invited Speaker |
| 2011 | New paradigms in adenoviral ocular pathogenesis.
Vision Discovery Institute Distinguished Seminar Series
Georgia Health Sciences University
Augusta, Georgia | Invited Speaker |
| 2011 | Paradigm shifts in ocular adenovirus pathogenesis.
Vision Research Center Distinguished Lectures
State University of New York
Buffalo, New York | Invited Speaker |

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| 2011 | Revolution in therapy of ocular squamous neoplasia
2011 Greater New York Ophthalmology Clinical lecture Series | Invited Speaker |
| 2011 | Keratoprosthesis for corneal blindness
2011 Greater New York Ophthalmology Clinical lecture Series | Invited Speaker |
| 2011 | The persistent dilemma of herpetic eye disease
2011 Greater New York Ophthalmology Clinical lecture Series | Invited Speaker |
| 2011 | Slit lamp conference
Department of Ophthalmology, Carver College of Medicine
University of Iowa | Visiting Professor |
| 2011 | Keratoprosthesis in cicatricial corneal blindness
Department of Ophthalmology, Carver College of Medicine
University of Iowa | Visiting Professor |
| 2011 | The persistent dilemma of herpes simplex virus keratitis
Department of Ophthalmology, Carver College of Medicine
University of Iowa | Visiting Professor |
| 2011 | Emerging human adenoviruses: a systems biology approach to
predicting the next eye pathogen
Cleveland Clinic Foundation
Cleveland, Ohio | Visiting Professor |
| 2012 | Viral pathogenesis and evolution in species D human adenoviruses
Division of Vaccine Research
Beth Israel Deaconess Medical Center
Boston, MA | Invited Speaker |
| 2012 | Adenovirus evolution and pathogenesis in 2012
Harvard Virology Program Annual Retreat
Sturbridge, MA | Invited Speaker |
| 2013 | Rational classification and evidence-based treatment of
herpes simplex virus keratitis.
Department of Ophthalmology Grand Rounds
Harvard Medical School
Boston, MA | Invited Speaker |
| 2013 | Keratoprosthesis in the 21 st century.
Henry Ford Hospital Department of Ophthalmology
Detroit, MI | Jack S. Guyton
Lecturer |

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| 2013 | The evolution of human adenoviruses.
University of Oklahoma Health Sciences Center
Oklahoma City, OK | Raniyah Ramadan
Lecturer |
| 2014 | Adenovirus genomics in pathogenesis.
University of Florida Center for Vision Research
Gainesville, FL | Visiting Professor |
| 2014 | Evidence-based therapy of Herpes simplex virus keratitis.
University of Florida College of Medicine
Department of Ophthalmology
Cornea and External Disease Pearls for Practice
Gainesville, FL | Invited Speaker |
| 2014 | Pragmatic algorithm for initial treatment of ocular alkali burns.
University of Florida College of Medicine
Department of Ophthalmology
Cornea and External Disease Pearls for Practice
Gainesville, FL | Invited Speaker |
| 2014 | The present and future of keratoprosthesis surgery.
University of Florida College of Medicine
Department of Ophthalmology
Cornea and External Disease Pearls for Practice
Gainesville, FL | Invited Speaker |
| 2014 | Slit lamp unknowns
Washington University
Department of Ophthalmology
St. Louis, MO | Visiting Professor |
| 2014 | Rational classification and evidence-based therapy of HSV keratitis
Washington University
Department of Ophthalmology
St. Louis, MO | Kays Lecturer |
| 2014 | Cicatrizing conjunctivitis
752 nd Meeting of the New England Ophthalmology Society
Boston, MA | Invited Speaker |
| 2015 | Rational classification and evidence-based treatment of herpes simplex virus keratitis.
Louisiana Academy of Eye Physicians and Surgeons Inaugural Meeting
New Orleans, LA | Invited Speaker |
| 2016 | Your [pink] eye: where adenoviral evolution meets the host. | Invited Speaker |

Department of Microbiology and Immunology
University of Michigan Medical School
Ann Arbor, MI

- 2016 HSV keratitis made easy. Invited Speaker
Insights and Innovations in Ophthalmology:
59th Annual Postgraduate Symposium in Ophthalmology
Columbus, Ohio
- 2016 Boston keratoprosthesis type I in the elderly patient with corneal opacity. Invited Speaker
Insights and Innovations in Ophthalmology
59th Annual Postgraduate Symposium in Ophthalmology
Columbus, Ohio
- 2016 Optimal therapy for ocular surface squamous neoplasia. Arthur Culler Lecturer
59th Annual Postgraduate Symposium in Ophthalmology
Columbus, Ohio
- 2016 Anatomic diagnosis at the slit-lamp biomicroscope. Visiting Professor
Yale Eye Center
New Haven, CT
- 2016 HSV keratitis made simple. Visiting Professor
Yale Eye Center Clinical Conference Series.
Yale University School of Medicine
New Haven, CT
- 2016 Evidence versus eminence in the care of HSV keratitis. Invited Speaker
SUNY Downstate Medical Center Department of Ophthalmology
44th Annual Ophthalmology Alumni Meeting
Brooklyn, NY
- 2016 Stevens Johnson syndrome/toxic epidermal necrolysis in the burn intensive care unit. Invited Speaker
SUNY Downstate Medical Center Department of Ophthalmology
44th Annual Ophthalmology Alumni Meeting
Brooklyn, NY
- 2016 Guide to evidence-based management of herpes simplex keratitis. Invited Speaker
20th Annual Ophthalmology Symposium
Department of Ophthalmology, University of Colorado Eye Center,
University of Colorado School of Medicine, and
Colorado Society of Eye Physicians and Surgeons. Denver, CO
- 2016 Keratoprosthesis surgery in the elderly patient with corneal blindness. Invited Speaker
20th Annual Ophthalmology Symposium

Department of Ophthalmology, University of Colorado Eye Center,
University of Colorado School of Medicine, and
Colorado Society of Eye Physicians and Surgeons. Denver, CO

- 2016 Windows of opportunity in the ophthalmic care of Stevens-Johnson syndrome/toxic epidermal necrolysis.
20th Annual Ophthalmology Symposium
Department of Ophthalmology, University of Colorado Eye Center,
University of Colorado School of Medicine, and
Colorado Society of Eye Physicians and Surgeons. Denver, CO Invited Speaker
- 2018 Boston keratoprosthesis, present and future designs
Innovations in Ophthalmology
768th Meeting, New England Ophthalmological Society
Boston, MA Invited Speaker
- National***
- 1993 Adenovirus epithelial keratitis.
Ocular Microbiology and Immunology Group Annual Meeting,
Chicago, Illinois Presenter
- 1995 Detection of Epstein-Barr virus genome in ocular tissues.
Association for Research in Vision and Ophthalmology,
Fort Lauderdale, Florida Presenter
- 1996 The eye as a mucosal immune site.
Fourth International Conference on Mucosal Immunization; Genetic
Approaches & Adjuvants, Washington, D.C. Invited Speaker
- 1996 Acanthamoeba keratitis after refractive surgery.
Ocular Microbiology and Immunology Group Annual Meeting,
Chicago, Illinois Presenter
- 1997 *Sporothrix schenckii* infection of the conjunctiva.
Ocular Microbiology and Immunology Group Annual Meeting,
San Francisco, California Presenter
- 1997 Emerging concepts in the pathogenesis and treatment of corneal
and ocular surface disease.
Instruction Course, American Academy of Ophthalmology
Annual Meeting, San Francisco, California Chief Instructor
- 1998 Sjogren's Syndrome and the eye.
Ninth Annual National Conference of the National Sjogren's
Syndrome Association, OK Medical Research Foundation, Oklahoma Invited Speaker

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| 1998 | Emerging concepts in the pathogenesis and treatment of corneal and ocular surface disease.
Instruction Course, American Academy of Ophthalmology Annual Meeting, New Orleans, Louisiana | Chief Instructor |
| 2000 | Immunity and Inflammation I: Influence of Cytokines, Chemokines, Adhesion Molecules and other Immunoactive Agents.
Third International Conference on the Lacrimal Gland, Tear Film and Dry Syndromes: Basic Science and Clinical Relevance, Maui, Hawaii | Invited Session Chair |
| 2002 | Diagnosis and management of ocular chlamydial disease.
Symposium on Primary Eye Care Management Problems, Joint Meeting, American Academy of Ophthalmology and Pan-American Association of Ophthalmology, Orlando, Florida | Invited Speaker |
| 2002 | Highlights of the 2002 edition of the BCSC 8, Cornea and External Disease: Section on herpetic eye disease.
American Academy of Ophthalmology and Pan-American Association of Ophthalmology, Orlando, Florida | Course Instructor |
| 2004 | Diagnosis and therapy of herpetic keratitis simplified.
Ocular Drug & Surgical Therapy Update, Dana Point, California | Invited Speaker |
| 2004 | Update in Cornea and External Disease from BCSC 8 Faculty for 2004: Herpes simplex keratitis.
American Academy of Ophthalmology Annual Meeting, New Orleans, Louisiana | Instructor |
| 2006 | Grant writing.
Heed Ophthalmic Foundation Resident and Faculty Retreat, Warrenton, Virginia | Invited Speaker |
| 2006 | Oklahoma pilot project for reporting harmed patients.
American Academy of Ophthalmology Mid-Year Forum, Washington, D.C. | Invited Speaker |
| 2006 | Adenovirus keratitis in the C57BL/6J mouse.
Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida | Presenter |
| 2006 | Viral conjunctivitis or just a red eye? How can we tell, and what to do about it?
American Academy of Ophthalmology Annual Meeting, Las Vegas, Nevada | Invited Speaker |

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| 2007 | Adenovirus type 19 activation of p38 MAPK regulates IL-8 expression in human corneal fibroblasts.
Association for Research in Vision and Ophthalmology,
Fort Lauderdale, Florida | Presenter |
| 2007 | Infections and Immunity; Cornea 2007:
Contemporary and Future Issues.
American Academy of Ophthalmology Annual Meeting,
New Orleans, Louisiana | Panel Discussant |
| 2008 | Viral capsid mediates expression of chemokine KC/CXCL1 in adenovirus keratitis.
Association for Research in Vision and Ophthalmology,
Fort Lauderdale, Florida | Presenter |
| 2008 | Yogi Berra, the art of war, and the color of money.
Clinician-Scientist Forum
Association for Research in Vision and Ophthalmology,
Fort Lauderdale, Florida | Presenter |
| 2008 | Oliver H. Dabezies, Jr., MD Lecture: Evidence based therapy for herpes keratitis.
Contact Lens Association of Ophthalmologists 2008 Annual Meeting,
Las Vegas, Nevada | invited speaker |
| 2008 | Visual loss from recurrent herpes simplex virus stromal keratitis: is it inevitable?
Ocular Microbiology and Immunology Group Cosponsored Symposium: Infectious Disasters: Are We Seeing Less or Are We Treating Better?
2008 Joint Meeting of the American Academy of Ophthalmology and European Society of Ophthalmology, Atlanta, Georgia | Invited Speaker |
| 2008 | Herpes simplex virus (HSV) keratitis.
LEO Clinical Update Course on Cornea/External Disease.
2008 Joint Meeting of the American Academy of Ophthalmology and European Society of Ophthalmology, Atlanta, Georgia | Invited Faculty |
| 2008 | Diagnosis and treatment of CIN, squamous cell carcinoma (ocular surface squamous neoplasia).
LEO Clinical Update Course on Cornea/External Disease.
2008 Joint Meeting of the American Academy of Ophthalmology and European Society of Ophthalmology, Atlanta, Georgia | Invited Faculty |
| 2008 | Postoperative regimen – what drug and how often?
Boston KPro Users Breakfast. 2008 Joint Meeting of the | Invited Speaker |

American Academy of Ophthalmology and European Society of Ophthalmology, Atlanta, Georgia

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| 2009 | Human adenovirus type D53: molecular evolution influencing tropism. Ocular Microbiology and Immunology Group 43 rd Annual Meeting, San Francisco, California | Presenter |
| 2009 | Herpes simplex virus keratitis. In instructional course: Extreme Cornea: Diagnostic and Management Dilemmas in Your Practice. American Academy of Ophthalmology Annual Meeting, San Francisco, California | Course Instructor |
| 2009 | The Boston keratoprosthesis: diagnosis and management of postoperative complications. In instructional course: The Boston Keratoprosthesis: What You Don't Know Will Surprise You. American Academy of Ophthalmology Annual Meeting, San Francisco, California | Course Instructor |
| 2009 | The future of the Boston keratoprosthesis. In instructional course: The Boston Keratoprosthesis: What You Don't Know Will Surprise You. American Academy of Ophthalmology Annual Meeting, San Francisco, California | Course Instructor |
| 2009 | Preoperative considerations and surgical options for the Boston keratoprosthesis. In instructional course; Surgery for Severe Corneal Ocular Surface Disease. American Academy of Ophthalmology Annual Meeting, San Francisco, California | Course Instructor |
| 2009 | Practical management of an adenoviral keratoconjunctivitis outbreak. In symposium: Progress and Controversies in the Treatment of Ocular Viral Disease 2009, Combined meeting between American Academy of Ophthalmology and the Ocular Microbiology and Immunology Group, San Francisco, California | Invited Speaker |
| 2010 | Complications and contraindications. In Course: Keratoprosthesis: Hope Beyond Graft Failure, Annual Meeting of American Society of Cataract and Refractive Surgery Boston, Massachusetts | Course Director/
Instructor |
| 2010 | The cornea facsimile: a three dimensional model of corneal inflammation. Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida | Presenter |
| 2010 | Surgery for severe corneal ocular surface disease. American Academy of Ophthalmology Annual Meeting Chicago, Illinois | Co-Instructor |

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| 2010 | Extreme cornea: diagnostic and management dilemmas in your practice.
American Academy of Ophthalmology Annual Meeting
Chicago, Illinois | Co-Instructor |
| 2010 | The Boston keratoprosthesis: optimizing outcomes.
American Academy of Ophthalmology Annual Meeting
Chicago, Illinois. | Co-Instructor |
| 2010 | New adenoviral pathogens and treatments: implications for the future of epidemic keratoconjunctivitis.
American Academy of Ophthalmology Annual Meeting
Chicago, Illinois | Invited Speaker |
| 2011 | Systems biology approach to ocular adenovirus infection.
Alcon
Fort Worth, Texas | Invited Speaker |
| 2011 | Ocular adenovirus infection and the genomics of EKC viruses.
Working Group for Human Adenovirus Genome, Taxonomy and Nomenclature Standards, NCBI Sponsored Virus Genome Annotation Workshop.
Bethesda, Maryland | Invited Speaker |
| 2011 | Surgery for severe corneal ocular surface disease.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2011 | Extreme cornea: diagnostic and management dilemmas in your practice.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2011 | The Boston keratoprosthesis: essentials for the beginning and experienced surgeon.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2011 | The Boston keratoprosthesis in the management of limbal stem cell failure.
Cornea Society and American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Invited Speaker |
| 2011 | Permanent keratoprosthesis surgery for corneal stem cell deficiency.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Invited Speaker |

2012	Over-reliance on serology incompletely characterizes human adenoviruses. Association for Research in Vision and Ophthalmology Fort Lauderdale, Florida	Presenter
2012	Boston keratoprosthesis: revolution in the treatment of severe corneal blindness. Surgical Innovations for the Treatment of Eye Disease Minisymposium. Association for Research in Vision and Ophthalmology, Fort Lauderdale, Florida	Invited Speaker
2012	Surgery for severe corneal ocular surface disease. American Academy of Ophthalmology Annual Meeting Orlando, Florida	Co-Instructor
2012	Extreme cornea: diagnostic and management dilemmas in your practice. American Academy of Ophthalmology Annual Meeting Orlando, Florida	Co-Instructor
2012	The Boston keratoprosthesis: essentials for the beginning and experienced surgeon. American Academy of Ophthalmology Annual Meeting Orlando, Florida	Co-Instructor
2013	Herpes simplex virus keratitis – Eminence-based medicine. California Pacific Medical Center Dept. of Ophthalmology San Francisco, California	Visiting Professor
2013	Why do patients with herpes simplex virus keratitis still lose vision? Francis I. Proctor Foundation San Francisco, California	Visiting Professor
2013	Best treatment for herpes simplex virus keratitis: Eminence or Evidence? University of California at Davis Eye Center Sacramento, California	Visiting Professor
2013	Keratoprosthesis surgery around the world. Cornea Day, American Society for Cataract and Refractive Surgery San Francisco, California	Invited Speaker
2013	Adenoviral pathogenesis in epidemic keratoconjunctivitis: the failure of hexon gene sequence to predict corneal tropism Association for Research in Vision and Ophthalmology Seattle, Washington	Presenter
2013	Genetic, structural, and host determinants of adenovirus tropism and	Visiting Professor

Pathogenesis
Novartis Institutes for Biomedical Research
Emeryville, California

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| 2013 | Surgery for severe corneal ocular surface disease.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2013 | Extreme cornea: diagnostic and management dilemmas in your practice.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2013 | The Boston keratoprosthesis: essentials for the beginning and
experienced surgeon.
American Academy of Ophthalmology Annual Meeting
Orlando, Florida | Co-Instructor |
| 2014 | Current and future treatments of adenoviral EKC.
Cornea Society and American Society of Cataract and Refractive Surgery
Boston, Massachusetts | Invited Speaker |
| 2014 | Surgery for severe corneal ocular surface disease.
American Academy of Ophthalmology Annual Meeting
Chicago, Illinois | Co-Instructor |
| 2014 | The Boston keratoprosthesis: essentials for the beginning and
experienced surgeon.
American Academy of Ophthalmology Annual Meeting
Chicago, Illinois | Co-Instructor |
| 2014 | Rational classification and evidence-based therapy of HSV keratitis.
Washington University Department of Ophthalmology
St. Louis, Missouri | Kays Lecturer |
| 2015 | Global keratoprosthesis.
Bascom Palmer Eye Institute
Miami, Florida | Invited Speaker |
| 2015 | Systems biology approach to adenovirus keratitis.
Bascom Palmer Eye Institute
Miami, Florida | Invited Speaker |
| 2015 | Improving the care of herpes simplex virus keratitis.
Bascom Palmer Eye Institute
Miami, Florida | Invited Speaker |

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| 2015 | Pathophysiology of ocular inflammation ins Stevens Johnson syndrome.
Loyola University Medical Center
Maywood, Illinois | Invited Speaker |
| 2015 | Stevens Johnson syndrome/toxic epidermal necrolysis – action items.
Loyola University Medical Center
Maywood, Illinois | Invited Speaker |
| 2015 | Proteotyping as a tool to study the evolution of human adenoviruses associated with epidemic keratoconjunctivitis
Association for Research in Vision and Ophthalmology
Denver, Colorado | Presenter |
| 2015 | Varicella zoster virus: case presentation.
Show Me the Evidence! Back to the Basics and Beyond
Cornea 2015
American Academy of Ophthalmology Annual Meeting
Las Vegas, Nevada | Invited Speaker |
| 2015 | The Boston keratoprosthesis.
Surgery for Severe Corneal and Ocular Surface Disease
American Academy of Ophthalmology Annual Meeting
Las Vegas, Nevada | Co-Instructor |
| 2015 | Ocular chemical burns.
Controversies and Dilemmas of Managing Ocular Infectious Diseases.
American Academy of Ophthalmology Annual Meeting
Las Vegas, Nevada | Invited Speaker |
| 2015 | Viral conjunctivitis.
Spotlight on Ocular Infections.
American Academy of Ophthalmology Annual Meeting
Las Vegas, Nevada | Invited Speaker/
Virtual Moderator |
| 2015 | Boston keratoprosthesis: patient selection and testing
The Boston Keratoprosthesis: Case-Based Presentations Highlighting the Essentials for Beginning and Experienced Surgeons
American Academy of Ophthalmology Annual Meeting
Las Vegas, Nevada | Co-Instructor |
| 2016 | Pink eye and the evolution of new human adenoviruses.
Ocular Microbiology and Immunology Group
50 th Annual Meeting
Chicago, IL | Phillips Thygeson Lecturer |
| 2016 | Management of acute Stevens Johnson syndrome/toxic epidermal | Invited Speaker |

- necrolysis (SJS/TEN) for the ophthalmologist.
American Academy of Ophthalmology Annual Meeting,
Cornea 2016
Chicago, IL
- 2016 The Boston keratoprosthesis type I. Co-Instructor
American Academy of Ophthalmology Annual Meeting
Surgery for Severe Corneal and Ocular Surface Disease.
Chicago, IL
- 2016 Boston keratoprosthesis future. Co-Instructor
American Academy of Ophthalmology Annual Meeting
Surgery for Severe Corneal and Ocular Surface Disease.
Chicago, IL
- 2017 Stevens-Johnson syndrome: update in ocular science & management. Keynote Speaker
SJS/TEN 2017: Building Multidisciplinary Networks to Drive
Science & Translation
Orlando, FL
- 2017 Bacteria-driven evolution of human adenoviruses. Presenter
Association for Research in Vision and Ophthalmology
Baltimore, Maryland
- 2017 Boston keratoprosthesis type I. Co-Instructor
Surgery for Severe Corneal and Ocular Surface Disease.
American Academy of Ophthalmology Annual Meeting
New Orleans, LA
- 2017 Boston keratoprosthesis type I in Stevens-Johnson syndrome. Co-Instructor
The Boston Keratoprosthesis: Case-Based Presentations Highlighting
the Essentials for Beginning and Experienced Surgeons
American Academy of Ophthalmology Annual Meeting
New Orleans, LA
- 2017 “Out damned spots”: management of recurrent subepithelial infiltrates Invited Speaker
after epidemic keratoconjunctivitis.
Management of Chronic and Recurrent Anterior Segment Disorders.
American Academy of Ophthalmology Annual Meeting
New Orleans, LA
- 2017 Immunology and immunotherapy in Stevens-Johnson syndrome/toxic Co-Instructor
epidermal necrolysis.
Stevens-Johnson Syndrome: A Strategic, Systemic, and Simplified Approach.
American Academy of Ophthalmology Annual Meeting
New Orleans, LA

- 2018 Recalcitrant HSV keratitis
American Society of Cataract and Refractive Surgery and
The Cornea Society Subspecialty Day 2018
Washington, D.C. Invited Speaker
- International***
- 1992 Studies of viral ocular infections. Invited Speaker
Spanish Society of Ophthalmology's Vth Centenary Congress
of Ophthalmology, Seville, Spain
- 1996 Anatomy of mammalian conjunctival lymphoepithelium. Invited Speaker
Second International Conference on the Lacrimal Gland, Tear Film,
and Dry Eye Syndromes: Basic Science and Clinical Relevance,
Bermuda
- 1999 Comparative anatomy of conjunctival lymphoid tissue in mammals. Invited Speaker
The Joint European Meetings in Ophthalmology and Vision,
Palma de Mallorca, Spain
- 2002 Conjunctiva: Role in mucosal immunology with comparison Invited Speaker
to other mucosal immune tissues.
Workshop on Immunology of the Ocular Surface and Tear Film,
Ettal, Germany
- 2004 Herpes simplex keratitis: A simplified approach. Invited Speaker
Chang-Ang Medical School, Seoul, Republic of Korea
- 2004 More than just pink eye. Invited Speaker
Chang-Ang Medical School, Seoul, Republic of Korea
- 2004 Ocular surface squamous neoplasia. Invited Speaker
Samsung Medical School, Seoul, Republic of Korea
- 2004 Herpes simplex keratitis: A simplified approach. Invited Speaker
Samsung Medical School, Seoul, Republic of Korea
- 2004 New paradigms in the pathogenesis of ocular surface viral infections: Keynote Speaker
viability of adenovirus type 19-infected human corneal fibroblasts
is dependent on phosphoinositide 3-kinase-mediated AKT activation.
4th International Conference on the Lacrimal Gland, Tear Film,
Ocular Surface and Dry Eye Syndromes:
Basic Science and Clinical Relevance, Fajardo, Puerto Rico
- 2006 Regulation of cytokine expression in adenovirus keratitis. Invited Speaker
XVII International Congress of Eye Research,

Buenos Aires, Argentina

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| 2007 | Simplified recognition and therapy of herpes simplex keratitis.
Ophthalmology Clinical Day, Ocular Infectious Diseases,
University of Western Ontario, London, Ontario | G.V. Simpson
Lectureship |
| 2007 | Varicella zoster virus keratitis.
Ophthalmology Clinical Day, Ocular Infectious Diseases,
University of Western Ontario, London, Ontario | G.V. Simpson
Lectureship |
| 2007 | Acute infectious conjunctivitis.
Ophthalmology Clinical Day, Ocular Infectious Diseases,
University of Western Ontario, London, Ontario | G.V. Simpson
Lectureship |
| 2007 | Corneal stroma and the innate immune response to adenovirus infection.
5 th International Conference on the Tear Film & Ocular Surface
Basic and Clinical Relevance, Taormina, Italy | Presenter |
| 2009 | Keratoprosthesis paradigms.
Moorfields Eye Hospital, London, England | Visiting Professor |
| 2009 | Herpes simplex virus keratitis: evidence or eminence.
Sussex Eye Hospital, Brighton, England | Visiting Professor |
| 2009 | Keratoprosthesis: biological interactions.
Sussex Eye Hospital, Brighton, England | Visiting Professor |
| 2009 | Virus-associated molecular pattern receptors in adenovirus keratitis.
9 th International Adenovirus Meeting, Dobogoko, Hungary | Presenter |
| 2009 | Paradigms in keratoprosthesis.
Canadian Ophthalmology Society Annual Meeting, Toronto, Canada | Invited Speaker |
| 2009 | Ocular surface squamous neoplasia.
Canadian Ophthalmology Society Annual Meeting, Toronto, Canada | Invited Speaker |
| 2009 | Stromal keratitis – the blinding eye condition: traditional and new ideas.
The spectrum of herpetic eye disease. Canadian Uveitis Society
Canadian Ophthalmology Society Annual Meeting, Toronto, Canada | Invited Speaker |
| 2009 | Changing paradigms in corneal replacement.
Fyodorov Memorial Lectures. Ministry of Public Health and Social
Development of Russian Federation, Russian Society of
Ophthalmologists, and S. Fyodorov Eye Microsurgery Complex –
Federal State Institution, Moscow, Russia | Invited Speaker |

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| 2009 | The Boston keratoprosthesis.
L.V. Prasad Eye Institute, Hyderabad, Andhra Pradesh India | Invited Speaker |
| 2009 | Genomics of ocular adenoviruses.
L.V. Prasad Eye Institute, Hyderabad, Andhra Pradesh India | Invited Speaker |
| 2009 | The Boston keratoprosthesis in autoimmune disease.
Keratoprosthesis Study Group, European Association for Vision and Eye Research Annual Meeting, Portoroz, Slovenia | Presenter |
| 2009 | Evolving indications for the Boston keratoprosthesis.
8 th International Symposium on Ocular Pharmacology and Therapeutics, Rome, Italy | Invited Speaker |
| 2009 | Novel cell-targeted approaches to adenovirus keratoconjunctivitis.
8 th International Symposium on Ocular Pharmacology and Therapeutics, Rome, Italy | Invited Speaker |
| 2010 | Mechanisms of inflammation during adenoviral infections in the cornea.
5 th International Conference on Ocular Infections, Palm Beach, Florida | Invited Speaker |
| 2010 | The persistent dilemma of herpetic eye disease.
5 th International Conference on Ocular Infections, Palm Beach, Florida | Invited Speaker |
| 2010 | Adenoviral conjunctivitis: persistent problematic pathogen and occupational hazard.
5 th International Conference on Ocular Infections, Palm Beach, Florida | Invited Speaker |
| 2010 | Virus associated molecular patterns in the cornea
International Ocular Surface Society
Hollywood, Florida | Presenter |
| 2010 | Emerging paradigms in corneal replacement: The future of keratoprosthesis surgery
6 th International Conference on the Tear Film and Ocular Surface: Basic Science and Clinical Relevance
Florence, Italy | Keynote Speaker |
| 2010 | Outcomes of the Boston keratoprosthesis type II
European Association for Vision and Eye Research Congress
Crete, Greece | Invited Speaker |
| 2010 | The persistent dilemma of herpetic keratitis. | Visiting Professor |

Universite de Montreal
Montreal, Quebec, Canada

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| 2011 | Emerging human adenoviruses and epidemic keratoconjunctivitis.
Asia ARVO
Singapore | Invited Speaker |
| 2011 | The cornea facsimile model of adenovirus keratitis.
Ophthalmology Grand Rounds, Sackler Faculty of Medicine
Tel Aviv University, Israel | Visiting Professor |
| 2011 | The Boston keratoprosthesis: a new standard of care.
3 rd Annual Meeting of the Institute for International Scientific
Exchanges in Medical Sciences
Sackler Faculty of Medicine, Tel Aviv University, Israel | Guest Speaker |
| 2011 | The problem of eminence-based therapy for herpes simplex
virus keratitis.
3 rd Annual Meeting of the Institute for International Scientific
Exchanges in Medical Sciences
Sackler Faculty of Medicine, Tel Aviv University, Israel | Guest Speaker |
| 2011 | Epidemic keratoconjunctivitis due to naturally recombinant
adenoviruses.
3 rd Annual Meeting of the Institute for International Scientific
Exchanges in Medical Sciences
Sackler Faculty of Medicine, Tel Aviv University, Israel | Guest Speaker |
| 2011 | Paradigm shifts in adenovirus genomics and biology.
41 st Cambridge Ophthalmological Symposium
Cambridge, England | Invited Speaker |
| 2012 | The persistent dilemma of herpetic eye disease.
Sankara Nethralya
Chennai, India | Visiting Professor |
| 2012 | An affordable keratoprosthesis for world corneal blindness.
Dr. R. P. Centre for Ophthalmic Sciences
All India Institute of Medical Sciences
New Delhi, India | Visiting Professor |
| 2012 | The persistent challenge of herpetic eye disease.
LV Prasad Eye Institute
Hyderabad, India | Visiting Professor |
| 2012 | An affordable keratoprosthesis for the corneal blind. | Invited Speaker |

	Cornea Unplugged: The Way Forward Hyderabad, India	
2012	New adenoviruses associated with epidemic keratoconjunctivitis. Cornea Unplugged: The Way Forward Hyderabad, India	Invited Speaker
2012	How will new insights in the laboratory influence future treatment of corneal infections? Cornea Unplugged: The Way Forward Hyderabad, India	Invited Speaker
2012	An affordable keratoprosthesis for world corneal blindness: The Lucia modification of the Boston keratoprosthesis type I. 8 th KPro Study Group Meeting Miami Florida	Presenter
2012	Predicting the next eye pathogen: systems biology analysis of a novel human adenovirus. 10 th International Adenovirus Meeting Umea, Sweden	Presenter
2012	Treating the tumor: therapeutic alternatives for ocular surface squamous neoplasia. Ocular Surface and Keratoprosthesis Conference Chennai, India	Invited Speaker
2012	Cicatricial crisis Ocular Surface and Keratoprosthesis Conference Chennai, India	Invited Speaker
2012	Keratoprosthesis design for the dry eye. Ocular Surface and Keratoprosthesis Conference Chennai, India	Invited Speaker
2012	The Boston keratoprosthesis: revolution in corneal replacement surgery. 1 st International Conference on Genomics in the Americas Philadelphia, PA	Invited Speaker
2012	The Boston keratoprosthesis: revolution in corneal replacement surgery. Form & Function in Ocular Disease Dalhousie University Halifax, Canada	Invited Speaker
2013	Adenovirus evolution and the emergence of corneal pathogens 7 th International Conference on the Tear Film and Ocular Surface:	Presenter

Basic Science and Clinical Relevance
Taormina, Italy

2013	Rational classification and evidence-based treatment of Herpes simplex virus keratitis Soroka Medical Center, Ben Gurion University of the Negev Beer Sheva, Israel	Visiting Professor
2013	Keratoprosthesis in the 21 st century Soroka Medical Center, Ben Gurion University of the Negev Beer Sheva, Israel	Visiting Professor
2013	Slit Lamp conference Soroka Medical Center, Ben Gurion University of the Negev Beer Sheva, Israel	Visiting Professor
2013	Slit Lamp conference Goldschleger Eye Institute, Sheba Medical Center at Tel Hashomer Ramat Gan, Israel	Visiting Professor
2014	Ocular surface disease case studies L.V. Prasad Eye Institute Hyderabad, India	Visiting Professor
2014	Rational classification and evidence-based treatment of herpes simplex keratitis L.V. Prasad Eye Institute Hyderabad, India	Visiting Professor
2014	Past, present, and future of keratoprosthesis Workshop on Ocular Surface Disorders KPro and SLET Users Meeting L.V. Prasad Eye Institute Hyderabad, India	Course Co-Director
2014	The importance of homologous recombination in the evolution of adenoviral eye pathogens Seventh Annual Antonio Champalimaud Symposium L.V. Prasad Eye Institute Hyderabad Eye Institute	Invited Speaker
2014	The evolution of human adenovirus as a corneal pathogen Biology & Pathobiology of the Cornea Gordon Research Conference Ventura, California	Invited Speaker
2014	Boston keratoprosthesis in autoimmune disorders	Presenter

- 9th KPro Study Group Meeting
Salzburg, Austria
- 2014 Globalization of keratoprosthesis surgery
9th KPro Study Group Meeting
Salzburg, Austria Presenter
- 2014 Proteotyping as a tool to study the evolution of human adenoviruses
11th International Adenovirus Meeting
San Diego, California Presenter
- 2015 Global keratoprosthesis
Pre-World Cornea Congress KPro Study Group Symposium
Shiley Eye Institute – UC San Diego
La Jolla, California Invited Speaker
- 2015 Boston keratoprosthesis type I and type II
Pre-World Cornea Congress KPro Study Group Symposium
Shiley Eye Institute – UC San Diego
La Jolla, California Invited Speaker
- 2015 Keratoprosthesis –yesterday and tomorrow
2nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India Invited Speaker
- 2015 Burn intensive care unit management of Stevens Johnson syndrome
for the ophthalmologist
2nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India Invited Speaker
- 2015 Boston keratoprosthesis type II
2nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India Invited Speaker
- 2015 Modifications in the Boston keratoprosthesis for world-wide use
2nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India Invited Speaker
- 2015 Management of ocular surface squamous neoplasia
2nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India Invited Speaker

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| 2015 | Neutralizing solutions in acute ocular alkali burn
2 nd Meeting of Ocular Surface and Keratoprosthesis
Sankara Nethralya
Chennai, India | Invited Speaker |
| 2015 | Boston keratoprosthesis for the extreme cornea
KPro Study Group Round Tables
Instituto de Microcurugia Ocular
Barcelona, Spain | Invited Speaker |
| 2015 | Latest developments with the Boston keratoprosthesis type II
6 th EuCornea Congress
Barcelona, Spain | Invited Speaker |
| 2015 | Update on Boston keratoprosthesis for ocular surface diseases
6 th EuCornea Congress
Barcelona, Spain | Invited Speaker |
| 2015 | Your [pink] eye: the intersection between viral evolution and
host immunity
Alcon Research Institute Awards Symposium
Boston, Massachusetts | Invited Awardee/Speaker |
| 2015 | Global keratoprosthesis
Department of Ophthalmology and Visual Sciences
Federal University of Sao Paulo, Sao Paulo, Brazil | Visiting Professor |
| 2015 | Slit lamp unknowns
Department of Ophthalmology and Visual Sciences
Federal University of Sao Paulo, Sao Paulo, Brazil | Visiting Professor |
| 2016 | Evidence-based care in Stevens-Johnson syndrome/toxic
epidermal necrolysis
First International Stevens-Johnson Syndrome Symposium
Kyoto, Japan | Invited Speaker |
| 2016 | Corneal blindness in limbal stem cell dysfunction; keratolimbic allograft
or keratoprosthesis?
World Ophthalmology Congress
Guadalajara, Mexico | Invited Speaker |
| 2016 | The importance of sharing knowledge
Ocular Surface Workshop, Tej Kohli Cornea Institute,
L.V. Prasad Eye Institute
Hyderabad, India | Chief Instructor |

2016	Keratoprosthesis (live surgery) Ocular Surface Workshop, Tej Kohli Cornea Institute, L.V. Prasad Eye Institute Hyderabad, India	Chief Instructor
2016	Evolution of keratoprosthesis Ocular Surface Workshop, Tej Kohli Cornea Institute, L.V. Prasad Eye Institute Hyderabad, India	Chief Instructor
2016	Management of ocular surface neoplasia Ocular Surface Workshop, Tej Kohli Cornea Institute, L.V. Prasad Eye Institute Hyderabad, India	Chief Instructor
2016	Amniotic membrane in acute burns and Stevens Johnson syndrome Ocular Surface Workshop, Tej Kohli Cornea Institute, L.V. Prasad Eye Institute Hyderabad, India	Chief Instructor
2016	Boston keratoprosthesis type I: the outer limits. 10 th KPro Study Group Meeting, Kyoto, Japan	Keynote Speaker
2016	Boston keratoprosthesis type I in elderly patients. 10 th KPro Study Group Meeting, Kyoto, Japan	Presenter
2016	Building an evidence basis for management of ocular Stevens Johnson syndrome/toxic epidermal necrolysis. 10 th KPro Study Group Meeting Kyoto, Japan	Invited Speaker
2016	Boston keratoprosthesis – the basics. National Institute of Ophthalmology Hanoi, Vietnam	Visiting Professor
2016	Understanding the clinical potential of the Boston keratoprosthesis type I. J. National Institute of Ophthalmology Hanoi, Vietnam	Visiting Professor
2016	Stevens Johnson syndrome. National Institute of Ophthalmology Hanoi, Vietnam	Visiting Professor
2016	The molecular determinants of human adenovirus species D penton base gene recombination. 12 th International Adenovirus Meeting	Presenter

Barsinghausen, Germany

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| 2016 | Building an evidence basis for management of ocular Stevens-Johnson syndrome/toxic epidermal necrolysis.
8 th International Conference on the Tear Film & Ocular Surface
Montpellier, France | Keynote Speaker |
| 2017 | Eminence and evidence in the treatment of herpes simplex virus keratitis.
Ocular Surface Workshop 4
Tej Kohli Cornea Institute
LV Prasad Eye Institute
Hyderabad, India | Chief Instructor |
| 2017 | Herpes simplex virus keratitis.
Sankara Nethralya
Chennai, India | Visiting Professor |
| 2017 | Slit-lamp unknowns
Sankara Nethralya
Chennai, India | Visiting Professor |
| 2017 | Boston keratoprosthesis: new horizons.
1st PanCornea International Congress
Sociedad Panamericana de Cornea
Miami, FL | Invited Speaker |
| 2018 | A comprehensive strategy to eradicate morbidity from Stevens Johnson syndrome/toxic epidermal necrolysis.
3 rd International Stevens-Johnson Syndrome Symposium
Kyoto, Japan | Invited Speaker |
| 2018 | Bilateral blindness after chemical injury: stem cell surgery or keratoprosthesis?
30 th Research Day
Department of Ophthalmology
University of Montreal
Montreal, Canada | Invited Speaker |
| 2018 | The Boston KPro alternatives for end-stage corneal blindness.
11 th KPro Study Group Meeting
Barcelona, Spain | Invited Speaker |
| 2018 | The British Journal of Ophthalmology: the editor's perspective
World Congress of Ophthalmology
Barcelona, Spain | Invited Speaker |

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| 2018 | A strategic overview: management of acute Stevens-Johnson syndrome /toxic epidermal necrolysis (SJS/TEN)
OSKON 2018 – 3 rd Ocular Surface and Keratoprosthesis Conference
Chennai, India | Faculty |
| 2018 | Boston keratoprosthesis alternatives for cicatrizing ocular surface disorders
OSKON 2018 – 3 rd Ocular Surface and Keratoprosthesis Conference
Chennai, India | Faculty |
| 2018 | The surprisingly controversial role of conjunctival biopsy in the diagnosis of mucous membrane pemphigoid
OSKON 2018 – 3 rd Ocular Surface and Keratoprosthesis Conference
Chennai, India | Faculty |
| 2018 | Role of TNF- α in acute chemical injury
OSKON 2018 – 3 rd Ocular Surface and Keratoprosthesis Conference
Chennai, India | Faculty |

Report of Clinical Activities and Innovations

Current Licensure and Certification

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| 1989 | New York License [inactive] |
| 1993 | Tennessee License [inactive] |
| 1993, 2003 | Diplomat, American Board of Ophthalmology Certification |
| 1995 | Oklahoma License [inactive] |
| 2008 | Massachusetts License |

Current Practice Activities

Ambulatory Care	Outpatient clinic	Cornea and External Diseases, MEEI	Three sessions per week
Corneal and Ocular Surface Surgery	Surgery	MEEI	One session every other week
Burn Unit Consultations	ICU	MGH, Shriners	One session per week

Clinical Innovations

Report of Technological and Other Scientific Innovations

“Click-on” titanium back plate for the Boston Keratoprosthesis: FDA approved, 2013
Boston keratoprosthesis type I, CE certificate, approved, 2014

“50 Dollar KPro”. We have developed an inexpensive keratoprosthesis (“Lucia” modification) that can be widely utilized in the non-industrialized world (provisional patent)

Patents

Treatment of ocular wounds and ulcers.

U.S. Patent No. US7893027 B2; Issued February 22, 2011

Inventors: Heloise Anne Pereira, James Chodosh, Michelle C. Callegan

Keratoprosthesis apparatuses, systems, and methods.

U.S. Patent No. WO2017177145 A1, Issued October 12, 2017

Inventors: James Chodosh, Eleftherios Paschalis Ilios, John Graney

Adenovirus GenBank Submissions (Complete Genomic Sequence)

HAdV-D10: JN226746

HAdV-D13: JN226747

HAdV-D15: JN226748

HAdV-D19 (C) (D64): EF121005

HAdV-D19_Miami_Strain_2 (D64): JQ326206

HAdV-D19_Miami_Strain_3 (D64): JQ326207

HAdV-D19_Pittsburgh_Strain_88 (D64): JQ326208

HAdV-D19p: JQ326209

HAdV-D20: JN226749

HAdV-D22: FJ404771

HAdV-D23: JN226750

HAdV-D24: JN226751

HAdV-D25: JN226752

HAdV-D27: JN226753

HAdV-D29: JN226754

HAdV-D30: JN226755

HAdV-D32: JN226756

HAdV-D33: JN226758

HAdV-D37: DQ900900

HAdV-D38: JN226759

HAdV-D39: JN226760

HAdV-D42: JN226761

HAdV-D43: JN226762

HAdV-D44: JN226763

HAdV-D45: JN226764

HAdV-D47: JN226757

HAdV-D51: JN226765

HAdV-D56: HM770721

HAdV-D57: HQ003817

HAdV-D58: HQ883276

HAdV-D59: JF799911
HAdV-D60: HQ007053
HAdV-D63: JN935766
HAdV-D69: JN226748.1
HAdV-D71: KF268207
HAdV-D72: KF268335
HAdV-D87: MF476841
HAdV-D88: MF476842

Report of Education of Patients and Service to the Community

Recognition

2000	Best Doctors in America, 1999	Woodward/White Inc.
2002	Best Doctors for 2001-2002	Best Doctors Inc.
2002	Best Doctors in Oklahoma	<i>Oklahoma Magazine</i>
2003	Best Doctors in America, 2003-2004	Woodward/White Inc.
2004	Best Doctors in Oklahoma	<i>Oklahoma Magazine</i>
2005	Best Doctors in America, 2005-2006	Woodward/White Inc.
2005	Best Doctors in Oklahoma	<i>Oklahoma Magazine</i>
2007	Best Doctors in America, 2007-2008	Woodward/White Inc.
2007	Best Doctors in Oklahoma	<i>Oklahoma Magazine</i>
2009-12,15	Best Doctors in America	Best Doctors Inc.

Report of Scholarship

Publications

Peer Reviewed Publications in print or other media

Research Investigations

1. **Chodosh J**, Banks C, Stroop WG. Rose bengal inhibits herpes simplex virus replication in Vero and human corneal epithelial cells *in vitro*. Invest Ophthalmol Vis Sci 1992;33:2520-2527.
2. **Chodosh J**, Dix RD, Howell RC, Stroop WG, Tseng SCG. Staining characteristics and antiviral activity of sulforhodamine B and lissamine green B. Invest Ophthalmol Vis Sci 1994;35:1046-1058.
3. Stroop WG, Banks MC, Qavi H, **Chodosh J**, Brown SM. A thymidine kinase deficient hsv-2 strain causes acute keratitis and establishes trigeminal ganglionic latency, but reactivates poorly *in vivo*. J Med Virol 1994;43:297-309.
4. **Chodosh J**, Miller D, Stroop WG, Pflugfelder SC. Adenoviral epithelial keratitis. Cornea 1995;14:167-174.

5. **Chodosh J**, Gan Y-J, Sixbey JW. Detection of Epstein-Barr virus genome in ocular tissues. *Ophthalmology* 1996;103:687-690.
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14. **Chodosh J**, Miller D, Tu EY, Culbertson WG. Tobramycin-responsive *Fusarium oxysporum* keratitis. *Can J Ophthalmol* 2000;35:29-30.
15. **Chodosh J**, Astley RA, Butler MG, Kennedy RC. Adenovirus keratitis: a role for interleukin-8. *Invest Ophthalmol Vis Sci* 2000;41:783-789.
16. Stroop WG, Chen TM, **Chodosh J**, Kienzle TE, Stroop JL, Ling J-L, Miles DA. Polymerase chain reaction assessment of herpes simplex virus type 1 corneal infection in animals treated with rose bengal and lissamine green B. *Invest Ophthalmol Vis Sci* 2000;41:2096-2102.
17. Ruan X, **Chodosh J**, Callegan MC, Booth MC, Lee TD, Kumar P, Gilmore MS, Pereira HA. Corneal expression of the inflammatory mediator CAP37 in a rabbit model of *Staphylococcus aureus* keratitis. *Invest Ophthalmol Vis Sci* 2002;43:1414-1421.

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Narrative Report

I am a clinician scientist with sustained commitments to research, teaching, and service. My goals are to illuminate the molecular pathogenesis of adenoviral ocular infection, to mentor the next generation of cornea clinician scientists, and to restore vision to those with blinding, infectious and inflammatory corneal diseases, in part through original research, and in part by expanding the clinical scope of the Boston keratoprosthesis, a unique corneal substitute developed by Dr. Claes H. Dohlman. About 50% of my time is spent in research and the remainder is divided between my keratoprosthesis practice, teaching in the laboratory and clinic, and administrative work for Boston Keratoprosthesis, the Department of Ophthalmology, and Cornea and Refractive Surgery Service.

Area of Excellence: My research group is the leader world-wide in adenovirus genomics and adenoviral ocular pathogenesis. I study the viruses that cause the most severe form of pink eye, known as epidemic keratoconjunctivitis (EKC). We generated the first whole genome sequence for the adenoviruses that cause EKC, created the first mouse model of adenovirus keratitis, and pioneered the cornea as a model system in which to study the role of tissue fibroblasts and bone marrow derived cells in innate immune responses to infection. Together with a world-wide group of collaborators, we described and characterized newly emergent and highly pathogenic adenoviruses and discovered the mechanism for their evolution. We recently completed the whole genome sequencing and analysis of 20 human adenovirus prototypes, and another 95 clinical specimens from around the world, including 18 never before described. The latter are under analysis and two so far have been acknowledged by GenBank with new type numbers.

I served on the Anterior Eye Disease NIH Study Section (two years as Chair), and the National Advisory Eye Council at NIH. I was honored with Career Development, Lew R. Wasserman, Physician Scientist, and Senior Scientific Investigator Awards from Research to Prevent Blindness. Among the more than 200 presentations I have given are the Purnell, Simpson, Alta, Okumoto, Jack Guyton, Raniyah Ramadan, Kays, and Thygeson lectures. I have published over 300 peer reviewed manuscripts, chapters, editorials, and abstracts.

Teaching and Education: I served as Residency Program Director and Cornea Fellowship Director in my previous department at the OU Health Sciences Center, where I received 4 awards for resident teaching in 13 years. At the Mass. Eye and Ear, I serve as Director of Resident and Fellowship training in Cornea and External Disease, and was recognized as Clinical Teacher of the Year in 2014. I developed syllabi for several monographs and courses, a web-based clinical course in *Herpes keratitis* diagnosis and therapy, and a clinical evidence-based guideline on HSV Keratitis, both for the American Academy of Ophthalmology. I continue to serve on graduate student committees, train postdoctoral fellows, predoctoral fellows, and residents in research, and teach graduate courses. I have mentored over 50 clinical cornea fellows, many of whom now hold academic positions. I am a member of the Harvard Program in Virology, where I also have teaching and committee responsibilities.

Significant Supporting Activities: In addition to serving my previous department as Residency Program Director, I was Vice Chief of Clinical Service (OU Medical Center), and served on numerous faculty search committees and on the Executive and Research Operations committees. At the university level, I was a full member of the Promotion and Tenure Committee, and ad hoc member of the Biosafety Committee. For 7 years, I was also the sole eye trauma surgeon for The OU Medical Center Level 1 Trauma Center. At Mass. Eye and Ear, I am Associate Director of the Cornea Service, and just finished 8 years as Chair of the Animal Care Committee. I served as Medical Director of the Optometry Service (which I helped to found), and on the Operating Room, and Residency Steering committees, and on Ophthalmology Board of Surgeons and the Clinical Operations Group. I completed a three-year term on the Promotions and Reappointments Committee at Harvard Medical School, and another three years on the Sub-committee on Professors. I have worked extensively with the American Academy of Ophthalmology on numerous committees and forums, and similarly served the American Board of Ophthalmology, the Association for Research in Vision and Ophthalmology, and the American Ophthalmology Society (thesis committee chair). I was appointed twice to the Research, Regulatory, and External Scientific Relations Committee of the American Academy of Ophthalmology, for which I now serve as Associate Secretary (Chair). I am Co-Editor-in-Chief at the British Journal of Ophthalmology, Editor for the American Journal of Ophthalmology, and have performed reviews *ad hoc* for another 30 peer-reviewed journals.

As a clinician scientist with major emphasis in ocular adenovirus pathogenesis, my laboratory studies have benefitted from continuous external funding. Teaching and mentoring have resulted in a cohort of trainees, now establishing their own laboratories and practices. My clinical practice is focused on the visual restoration of seemingly hopeless cases of corneal blindness. I have a deep commitment to my patients, colleagues, and profession.