22 April 2022

Re: Nomination of Kathryn Colby for AOS Membership

Kathryn Ann Colby, MD, PhD
Department of Ophthalmology
NYU Grossman School of Medicine
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Dear Dr. Grossniklaus:

It is my great pleasure, by way of this letter, to nominate Katheryn Colby, MD, PhD for membership in the American Ophthalmological Society. Dr. Colby is a well-respected cornea specialist with a sterling national and international reputation, currently Professor and Chair of the Department of Ophthalmology at NYU Grossman School of Medicine on 41st Street in New York City. She is immediate Past-president of the Cornea Society, and recently moved from Chicago, where she was Louis Brock Professor and Chair of the Department of Ophthalmology at the University of Chicago, to New York where she became the inaugural Elisabeth J Cohen Professor of Ophthalmology and Department Chairman there. She is a well-respected clinician and her ethical standards are *ne ultra* (none higher). Regarding the latter, I witnessed her vigorously defend the benefits of not-for-profit eye banking at a national meeting after a presentation espousing commercialization of ocular tissue occurred. I have known Kathy professionally and socially for more than 10 years, and believe she will be an asset to the scientific and social activities of AOS meetings. She has all the qualifications of a good AOS member, and she has expressed interest in the AOS.

Clinical Practice

Dr. Colby achieved national prominence as a resident and cornea fellow under Claes Dohlman, MD at the Massachusetts Eye and Ear Infirmary at Harvard Medical School. She presented her research frequently at local and national meetings, was considered an expert on the Dohlman keratoprosthesis, and did early work on acanthamoeba keratitis and the Zoster Eye Disease Study (ZEDS). She was Associate professor at Harvard until she moved to Chicago to become Chair at the University of Chicago in 2015. In Chicago, she pioneered Descemet's Stripping Only (DSO) keratoplasty, effectively treating Fuchs patients without an allograft and obviating the need for long term post-operative corticosteroid drops. While in Chicago, she enhanced the department by recruiting a number of young faculty in different specialties who have themselves gone on to national prominence. She became President-elect of the Cornea Society in 2018 and served as President 2020-2021. In 2021, she accepted her current position as Professor and Chair of Ophthalmology at NYU Grossman School of Medicine. She still maintains

an active clinical practice in New York as well as continuing her research and administrative activities.

Scientific Productivity

Dr. Colby's scholarly activity has been phenomenal throughout her career, and her CV, attached, demonstrates her scientific productivity. As of today, she has published 107 articles in peer reviewed literature, many of which appeared in Ophthalmology, AJO and Cornea. She has authored 22 book chapters, and has edited 7 textbooks on Cornea and related topics. At Harvard during her associate professorship, she received PI grant support for studies on acanthamoeba keratitis, Fuchs dystrophy, fungal keratitis, corneal cross-linking for keratoconus. She currently has active funding for evaluation of the role of Rho Kinase inhibitors on corneal endothelial cell rejuvenation, and is a monitor for the ZEDS study. In addition to serving on the Board and as Chair of the Cornea Society, she participated in a major rewrite of the AAO Section VIII Cornea text of the Basic and Clinical Science text series. She currently serves on the Editorial Boards of *Cornea, AJO, JAMA Ophthalmology, Eye and Contact Lens* and *EyeNet.*

Education

Dr. Colby's contributions to the specialty of ophthalmology have already been alluded to in this letter. After getting her undergraduate degree at Johns Hopkins in 1981, she received a PhD in neurobiology at Brown University in 1968. She graduated *summa cum laude* from the University of Maryland Medical School in 1992, then completed her Ophthalmology residency at Harvard in 1996, served as Chief Resident there 1996-1997, and then completed a 2 year cornea fellowship with Claes Dohlman in 1999. She was President of the Medical Staff at Massachusetts Eye and Ear Infirmary in 2015. She has mentored many residents and research fellows at Mass Eye and Ear and the university of Cjhicago, but, more significantly, she completely rebuilt the Ophthalmology Department at the University of Chicago when she was Chair 2015-2021. She hired a number of young junior faculty who have developed national reputations in multiple specialties on their own. Dr. Colby has supported the AAO on multiple committees, including the BCSC Cornea committee, the Orbital Gala Committee, Cornea section editor of EyeNet, Cornea Subspecialty Day Program Chair and Cornea Chair of the Annual Meeting Program Committee.

Administration

Dr. Colby's has spent her entire career in academic medicine at some of the more prestigious Ophthalmology Departments in the US. As Louis Brock Professor and Chairman at the University of Chicago, she hired numerous new junior faculty members in a complete rebuild of the Department there. As President of the Cornea Society, she took over a society with depleted assets due to unforeseen expenses, and guided the organization through 2 years of COVID still increasing membership and helping the organization regain sound financial footing. She is on the planning committee for the World Cornea Conference VIII held in Chicago just prior to the AAO Annual Meeting. She is currently holding the Elisabeth Cohen endowed Chair in Ophthalmology and is Professor and Chairman of the Ophthalmology Department at NYU Grossman School of Medicine in New York City.

Public Service

Dr. Colby has served the public well during her career administratively in the ophthalmology departments of three prestigious US medical centers and in the teaching and mentoring of countless young physicians and post-doc fellows she has worked with along the way. She has been an Associate Examiner of the American Board of Ophthalmology Oral Board Exams sin 2017, was an ad hoc Advisory Panel Reviewer for Research to Prevent Blindness in 2016 and 2018. She was Chair of the Institutional Review Board of the Massachusetts Eye and Ear Infirmary Institutional Review Board 2000-2007. She was Founding Director of the Pediatric Cornea Service at the Massachusstts Eye and Ear infirmary in 2015, served on the search committee for the University of Chicago President/CEO in 2019, and has served on the Board of AUPO. These activities should all reflect the admiration and respect with which her peers and co-workers regard her.

In summary, Dr. Colby completed her ophthalmology residency 25 years ago and has already accomplished an enviable dossier of accomplishments, awards and positions that many never achieve in a lifetime. She has a pleasant personality and friendly disposition, is socially polished, is both well-liked and respected by her peers and co-workers. She is an authority on multiple subjects in the field of cornea and external disease, and would be an asset to the AOS. I respectfully nominate her with enthusiasm to become a new member. I believe she will have no trouble writing a suitable thesis, and hope you will give her application favorable consideration. Please let me know if I can answer any questions of supple additional information.

Sincerely,

Woodford S Van Meter, MD

NYU Langone Health

Elisabeth J. Cohen, MD
Professor
Department of Ophthalmology

April 4, 2022

Dear Dr. Grossniklaus,

It is a wonderful privilege to second the nomination of Kathryn Ann Colby, MD, PhD for membership in AOS. She has my highest possible recommendation. She is the Chair of the Department of Ophthalmology at NYU Grossman School of Medicine (NYUGSoM), NYU Langone Health (NYULH) and a world renowned cornea leader. She has made substantial and innovative contributions to the field that are evident in her many research publications. She will have no difficulty in completing an impactful thesis, despite her many leadership positions and responsibilities. Her character and ethical standards are exemplary and set a high standard for our profession. She has the courage to say something when people are treated unfairly. Her membership and participation in AOS will enhance the organization and strengthen its future.

Her clinical corneal practice interests while on the Harvard faculty at the Massachusetts Eye and Ear Infirmary (MEEI), as Chairman at the University of Chicago and now at NYUGSoM, NYULH have focused on keratoprosthesis for high risk penetrating keratoplasties, pediatric corneal diseases, conjunctival tumors, corneal infections, and Fuchs corneal dystrophy. She has provided outstanding medical and surgical management for a broad range of corneal diseases.

She has a very strong scientific background having completed her PhD and a post-doctoral fellowship in neuroscience prior to going to medical school. Her interest in research has continued to the present time. She has been important in the NEI/NIH funded Zoster Eye Disease Study from the outset serving on the Executive Committee and as Chair of the Clinical Event Review Committee. She was President of the Cornea Society from 2020-2022, and is on the board of directors and co-director of the Academic leadership development program of the Association of University Professors of Ophthalmology. She is also the Program Chair for World Cornea Congress, the just to name a few of her many leadership accomplishments.

As Professor and Chair of two ophthalmology departments at major institutions she has been devoted and successful at elevating the education experience of residents and medical school students in ophthalmology. Her prior extensive education activities at the MEEI well prepared her to be transformative as a chair. She has also been the course director of five programs at AAO Annual Meetings.

Her administrative service and leadership accomplishments have been touched on above. She has been a leader in every position she had held since being a chief resident. She is a role model and mentor, especially, but not only, for women, and committed to promoting excellence in the next generation of ophthalmologists.

I have known Kathy Colby for over 15 years and enthusiastically support her membership.

Sincerely,

Elisabeth J. Cohen, MD
Professor
Department of Ophthalmology

David J. Wilson, M.D.
Paul H. Casey Chair,
Department of Ophthalmology
Director, Casey Eye Institute

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April 27, 2022

Dear AOS Membership Committee,

I am writing to second the nomination of Kathryn Colby, M.D., Ph.D. for membership in the AOS. Her primary nomination letter is being submitted by Woody Van Meter. Dr. Colby has truly distinguished herself as a leader in our profession and will be an excellent member of the AOS. I have known her for several years in her capacity as a member of the board of the Society of Heed Fellows. She has demonstrated active engagement and thoughtful consideration of topics that have come before that Board.

In reviewing her credentials, she has made contributions to education, research and clinical care. In addition, she has received the recognition of being selected to be Chair of the Department of Ophthalmology, first at University of Chicago, and now at New York University. She is a member of multiple editorial boards for high impact ophthalmology journals. She has been the principal investigator or co-investigator on a variety of grants involving corneal disease, indicating her expertise in both clinical and basic science research.

I think she will make a great addition to the AOS. She will provide expertise to many of our discussions whether those be on the topic of research, education, clinical care or public policy. I second her nomination with the greatest enthusiasm.

Sincerely,

David J Wilson

David J. Wilson, MD
Paul H. Casey Chair, Department of Ophthalmology
Director, Casey Eye Institute

Curriculum Vitae

Date Prepared: March 1, 2022

Name: Kathryn Ann Colby, MD, PhD

Office Address: Department of Ophthalmology
NYU Grossman School of Medicine
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Work FAX: 929-455-9420

Mobile Phone: 617-605-0300

Place of Birth: Montclair, NJ

Education

9/1977-5/1981	B.A.	Natural Science	The Johns Hopkins University
9/1981-10/1986	Ph.D.	Neurobiology (Robert Patrick, PhD)	Brown University
9/1988-5/1992	M.D. (Summa Cum Laude)	Medicine	University of Maryland

Postdoctoral Training

11/1986-8/1988	Postdoctoral fellow	Physiology (Mordecai Blaustein, MD)	University of Maryland
7/1992-6/1993	Intern	Internal Medicine	Mercy Hospital, Baltimore, MD
7/1993-6/1996	Resident	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/1996-6/1997	Chief Resident	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/1997-6/1999	Fellow	Cornea, External Disease, Refractive Surgery	Massachusetts Eye & Ear Infirmary

Faculty Academic Appointments

7/1993-6/1996	Clinical Instructor	Ophthalmology	Harvard Medical School
7/1996-5/2005	Instructor	Ophthalmology	Harvard Medical School
6/2005-5/2011	Assistant Professor	Ophthalmology	Harvard Medical School
6/2011-7/2015	Associate Professor	Ophthalmology	Harvard Medical School
8/2015-12/2015	Professor	Ophthalmology and Visual Science	University of Chicago
8/2015-8/2020	Department Chairman	Ophthalmology and Visual Science	University of Chicago
1/2016-8/2020	Louis Block Professor		University of Chicago
9/2020-10/2020	Professor	Ophthalmology	NYU Grossman School of Medicine
9/2020-present	Department Chairman	Ophthalmology	NYU Grossman School of Medicine
10/2020-present	Elisabeth J. Cohen Professor	Ophthalmology	NYU Grossman School of Medicine

Appointments at Hospitals/Affiliated Institutions

Past

7/1996-6/1999	Assistant in Ophthalmology	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/1999-6/2003	Assistant Surgeon	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/2003-6/2009	Associate Surgeon	Ophthalmology	Massachusetts Eye & Ear Infirmary
3/1997-6/2001	Clinical Associate	Surgery	Massachusetts General Hospital
7/1998-6/2003	Investigator	Ophthalmology	Schepens Eye Research Institute
7/2009-7/2015	Surgeon	Ophthalmology	Massachusetts Eye & Ear Infirmary
7/2001-7/2015	Affiliate Surgeon	Surgery	Massachusetts General Hospital
7/2003-6/2011	Clinical Assistant Scientist	Ophthalmology	Schepens Eye Research Institute
9/2008-7/2015	Courtesy Staff	Ophthalmology	Boston Children's Hospital
5/2009-7/2015	Associate Surgeon	Surgery	Brigham & Women's Hospital
8/2015-8/2020	Active Staff	Ophthalmology	University of Chicago Medicine

Present

9/2020-present	Active Staff	Ophthalmology	NYU Langone Health System
1/2021-present	Active Staff	Ophthalmology	Bellevue Hospital Center

Other Professional Positions

2003-2015	Founder and Former Chair	Mariana D. Mead MD Lecture Executive Committee
2006-2009	Scientific Advisory Board	Ocular TRUST (Tracking Resistance in the US Today)
2007-2012	Scientific Advisory Board	CDC investigation of Acanthamoeba keratitis outbreak
2012-present	Board of Directors	The Cornea Society
2013-2015	Board of Directors	New England Ophthalmologic Society
2013-2016	Executive Committee	Zoster Eye Disease Study
2016-2019	Secretary-Treasurer	The Cornea Society
2016-2020	Board of Directors	Illinois Society of Eye Physicians and Surgeons (ISEPS)
2016-2020	Board of Directors	Illinois Society for the Prevention of Blindness
2016-2020	Board of Directors	Chicago Ophthalmological Society
2016-2020	Chair, Clinical Event Review Committee	Zoster Eye Disease Study
2017-present	Examiner	American Board of Ophthalmology
2018-2019	President-Elect	The Cornea Society
2018-2020	Councilor (representing ISEPS)	American Academy of Ophthalmology
2016, 2018	Ad Hoc Advisory Panel Reviewer	Research to Prevent Blindness
2019-present	US Chair	Kowa K-312-201 Clinical Trial
2020-2022	President	The Cornea Society
2020-present	Board of Directors	Society of Heed Fellows
2020-present	Chair, Resident and Fellow Research Forum Committee	Association of University Professors of Ophthalmology
2020-present	Executive Committee	Zoster Eye Disease Study
2021-present	Board of Directors	Association of University Professors of Ophthalmology
2021-present	Co-director, Academic Leadership Development Program	Association of University Professors of Ophthalmology
2022-present	Past President	The Cornea Society

Major Administrative Leadership Positions

Local

1996-1997	Director, Eye Trauma Service	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1996-1997	Associate Chief of Ophthalmology (Residency Affairs)	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1996-1997	Chief Resident	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1997-1998	Director, Emergency Ophthalmology Service	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1999-2000	Co-director, Emergency Ophthalmology Service	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1998-2008	Founding Director, Joint Clinical Research Center	Massachusetts Eye & Ear Infirmary and Schepens Eye Research Institute
2000	Conference Organizer, Clinical Research in the New Millennium	Massachusetts Eye & Ear Infirmary and Schepens Eye Research Institute
2000-2007	Chairman, Institutional Review Board	Massachusetts Eye and Ear Infirmary
2002-2003	Co-director, HMS Ophthalmology Research Retreat	Harvard Medical School (Ophthalmology)

2004-2006	Director, Professional Development Lecture Series	Massachusetts Eye & Ear Infirmary (Ophthalmology)
2004-2007	Director, HMS Ophthalmology Annual/Alumni Meeting	Harvard Medical School (Ophthalmology)
2006-2010	Director, Cornea Fellowship and Resident Education	Massachusetts Eye & Ear Infirmary (Ophthalmology)
2012-2015	Director, Health Care Contracting and Payor Policies	Massachusetts Eye & Ear Infirmary (Ophthalmology)
2013-2015	Residency Curriculum Advisor, Cornea Service	Massachusetts Eye & Ear Infirmary (Ophthalmology)
2013-2015	Founding Director, Ocular Oncology Center of Excellence	Harvard Medical School (Ophthalmology)
2013-2015	Founding Director, Pediatric Cornea Service	Boston Children's Hospital (Ophthalmology)
2014-2015	President, Eye Staff	Massachusetts Eye and Ear Infirmary
2014	President-elect, Medical Staff	Massachusetts Eye and Ear Infirmary
2015	President, Medical Staff	Massachusetts Eye and Ear Infirmary
2017-2018	Co-chair, Anesthesia Chairman Search Committee	University of Chicago Pritzker School of Medicine
2021-2022	Chair, ENT Chairman Search Committee	NNY Grossman School of Medicine

Regional

2003	Conference Organizer, **Kevin Hill Course in Ophthalmology** (Cornea and External Disease)	Colby College, Waterville, ME

National

2003	Course Director: **Refractive Surgery Techniques in the Management of Corneal Diseases**	American Society of Cataract and Refractive Surgeons Annual Meeting, San Francisco, CA
2006	Course Director: **Human Studies Regulations: Ethical Principles and Practical Applications**	American Academy of Ophthalmology Annual Meeting, Las Vegas, NV
2012	Course Director: **Extreme Cornea: Management Dilemmas in your practice**	American Academy of Ophthalmology Annual Meeting, Chicago, IL
2014-2016	Program Director**: Cornea Fellows Educational Summit**	Tampa, FL
2014-2016	Course Director: **The Boston KPro: A Case-based Approach for Beginning and Experienced Surgeons**	American Academy of Ophthalmology Annual Meeting, Chicago. IL

International

2013	Course Chair: **Current Concepts in Corneal Surgery**	European Society of Ophthalmology (SOE) Biennial Meeting, Copenhagen, Denmark
2016-present	Program Chair	World Cornea Congress VIII

Committee Service

Local

1995-1997	Residency Steering Committee Member	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1996-1997	Residency Selection Committee Member	Massachusetts Eye & Ear Infirmary (Ophthalmology)
1996-2000	Quality Assurance Committee Member	Massachusetts Eye & Ear Infirmary
1997-1998	Infection Control Committee Member	Massachusetts Eye & Ear Infirmary
1999-2015	Human Studies Committee 1999-2000, 2007-2011 Member 2011-2015 Ad Hoc Advisor	Massachusetts Eye & Ear Infirmary
2005-2008	HMS Clinical Research and Education Council Member	Harvard Medical School (MEEI representative)
2006-2010	Fellowship Committee Member	Massachusetts Eye & Ear Infirmary (Ophthalmology)
2010-2012	Conflict of Interest Committee Member	Massachusetts Eye & Ear Infirmary
2012-2015	Board of Surgeons Member	Massachusetts Eye and Ear Infirmary
2013-2015	Eleanor Shore Fellowship Selection Committee Member	Harvard Medical School
2015-2020	Surgical Executive Committee Member	University of Chicago
2015-2020	Medical Staff Executive Committee Member	University of Chicago
2016-2020	Operating Room Block Committee Member	University of Chicago
2019-2020	UCMC President/CEO Search Committee Member	University of Chicago

National

2011-2017	Data Safety Monitoring Committee Member, Corneal Preservation Time Study	National Eye Institute/Jaeb Center
2018-present	Innovations Advisory Committee Member	Eversight

International

2013-2015	Planning Committee Member	World Cornea Congress VII

Professional Societies

1991-present	Alpha Omega Alpha	Member
1994-1998	Massachusetts Medical Society	Member
1996-2015	Massachusetts Society of Eye Physicians and Surgeons	Member
	1998-2004	Executive Board Member
	1998-2000	Chair, Young Practitioners Task Force
1996-present	American Academy of Ophthalmology	Fellow
	2007, 2009-2011	Moderator for Annual Meeting Cornea Sessions
	2008	Reviewer for Annual Meeting Cornea Submissions (instruction courses, papers, posters, videos)
	2009-2011	Annual Meeting Program Committee Member (Cornea Subcommittee)
	2012-2015	Chair, Cornea Subcommittee, Annual Meeting Program Committee
	2009-2014	Basic and Clinical Science Course Committee Member (Cornea and External Disease Section)
	2012-2013	Program Director, Cornea Subspecialty Day
	2015-present	AAO Orbital Gala Host Committee Member
	2018-2020	Councilor
	2019-present	Section Editor, Cornea, EyeNet Magazine
	2019	Awards Committee Member
1996-present	American Society of Cataract and Refractive Surgery	Member
	2007	Paper Session Panelist and Judge
	2013-2015	Member, Program Committee, ASCRS Resident and Fellow Program
	2019	Member, Cornea Day Program Planning Committee
1999-present	Women in Ophthalmology	Member
	2014-2016	Founding Member, Path to the Podium Taskforce
2003-present	Cornea Society	Member
	2009, 2011, 2016, 2018	Annual Meeting Paper Contest Judge
	2011-13	Member, Young Practitioner Task Force
	2013-16	Co-Chair, “Cornea Society U” Outreach Program
2006-2015	New England Ophthalmological Society	Member
	2008	Poster Contest Judge
	2012-13	Member, Ophthalmic Services Committee
	2013-15	Chair, Ophthalmic Services Committee
2021-present	New York Ophthalmological Society	Member
2021-present	Manhattan Ophthalmological Society	Member

Editorial Activities

2013-present Editorial Board, *Cornea*
2014-2020 Editorial Board, *Eye and Contact Lens*
2017-present Editorial Board, *JAMA Ophthalmology*
2017-present Editorial Board, *EyeNet*
2018-present Editorial Board, *Journal of Academic Ophthalmology*

Ad hoc Reviewer
Journal of Refractive Surgery
Current Eye Research
Survey of Ophthalmology
Expert Review of Ophthalmology
Melanoma Research
Journal of the American Association of Pediatric Ophthalmology and Strabismus
Human Mutation
Ophthalmology
Investigative Ophthalmology and Visual Science
British Journal of Ophthalmology
Digital Journal of Ophthalmology
American Journal of Ophthalmology

Honors and Prizes

1985	Young Investigator Award	American Society of Neurochemistry	Research
1989	First Prize, Medical Student Research Day	University of Maryland School of Medicine	Research
1990	Charles Wisseman Award for Excellence in Microbiology	University of Maryland School of Medicine	Academic Achievement
		University of Maryland School of Medicine	Academic Achievement
1991	Election to Alpha Omega Alpha (Junior Year)	University of Maryland School of Medicine	Academic Achievement
1992	Valedictorian	University of Maryland School of Medicine	Academic Achievement
1992	Summa cum Laude	University of Maryland School of Medicine	Academic Achievement
1992	Balder Scholarship Award for Outstanding Academic Achievement	University of Maryland School of Medicine	Academic Achievement
1992	Janet M. Glascow Award for Academic Achievement	University of Maryland School of Medicine	Academic Achievement
1997	Heed Ophthalmic Foundation Fellowship	Heed Foundation	Academic Achievement
2003	Faculty Development Course Participant	Harvard Medical School	
2006	Early Career Professional Development Program Participant	American Association of Medical Colleges	
2007	Achievement Award	American Academy of Ophthalmology	Service to the Academy
2013	Mentorship Award	Women in Ophthalmology/AMA	Mentorship
2015	Senior Achievement Award	American Academic of Ophthalmology	Service to the Academy
2016	Secretariat Award	American Academic of Ophthalmology	Committee Chair
2016	Innovation and Research Award	Lions Eye Institute for Transplant and Research	Corneal transplantation innovation
2017	Secretariat Award	American Academic of Ophthalmology	Advocacy
2017	Bucksbaum Institute for Clinical Excellence Master Clinician	University of Chicago	Clinical Expertise
2018	WIO Mentorship Award	Women in Ophthalmology	Mentorship
2020	Secretariat Award	American Academy of Ophthalmology	Service to EyeNet
2020	Bernice Brown MD Award	Women in Ophthalmology	Advancement of women in Ophthalmology

Funding Information

Past

1999-2000 Mitochondria in Fuchs' Corneal Dystrophy
Funding Source: Research to Prevent Blindness
Role: PI
Grant type: Research

Ultrastructural analysis of corneas from Fuchs' dystrophy patients undergoing corneal transplantation revealed marked disruption of mitochondrial anatomy with preservation of other endothelial organelles, suggesting that perturbations in mitochondria contribute to the pathogenesis of Fuchs' dystrophy.

2001-2002 Scholars in Medicine Fellowship
Role: PI
Funding Source: Harvard Medical School
Grant type: Career Development
Created database of Fuchs' dystrophy patients and established storage bank of DNA to aid future studies

2002-2009 Mitochondria in Fuchs Corneal Dystrophy
Funding Source: Joint Clinical Research Center Award
Role: Co-PI (with Nancy Joyce, PhD, Schepens Eye Research Institute)
Grant type: Research
Supervised cornea fellows and Harvard medical students in laboratory studies of Fuchs dystrophy:

Developed techniques to culture corneal endothelium from Fuchs dystrophy patients. Sequencing of the mitochondrial genome from cultured endothelial cells and blood from patients with Fuchs dystrophy patients could not detect mutations or deletions in mitochondrial DNA.

Proteomic analysis of corneal endothelium from Fuchs dystrophy patients showed changes in proteins involved in oxidative phosphorylation, further supporting the role of mitochondria in Fuchs dystrophy and subsequently led to an independent, NEI-funded R01 to Ula Jurkunas, MD, who worked on this project as a cornea fellow and then as a K12-funded investigator.

Characterized aquaporins in normal and Fuchs dystrophy corneas

2005-2006 Atypical Corneal Infections
Funding Source: New England Corneal Transplant Research Fund
Role: PI
Grant type: Research
Created and analyzed database of Massachusetts Eye and Ear Infirmary cases of atypical keratitis

2005-2009 Genomic studies of Fuchs Corneal Dystrophy
Funding Source: NEI (to Jonathan Lass MD, subcontract from Case Western Reserve)
Role: Site PI
Grant type: Research
Collected corneal tissue, blood and historical information from MEEI families with Fuchs' corneal dystrophy to assess genes involved in this disease

2006-2009 Rates and Risk Factors for Fungal Keratitis in Contact Lens Wearers
Funding Source: Bausch and Lomb (subcontract from Johns Hopkins University)
Role: Site PI
Grant type: Industry-sponsored retrospective and prospective study of fungal corneal infections
Retrospective review of MEEI fungal keratitis and prospective collection of data following Fusarium keratitis outbreak in 2006

2002-2011 Implantable Miniature Telescope for Age-Related Macular Degeneration
Funding Source: VisionCare, Inc
Role: Site PI
Grant type: Industry-sponsored Phase II device multi-center clinical trial with ongoing extension study
Determined safety and efficacy of implantable intraocular telescope for macular degeneration, approved by FDA 7/2010; lead investigator for sub-study to determine the optimal surgical technique for device implantation and first author of the resulting publication; national spokesperson for the device responsible for interactions with regulatory agencies and media following device approval

2009-2011 Collagen Cross-linking for Keratoconus
Funding source: MEEI Departmental Research Fund
Role: Site PI
Grant type: FDA-sanctioned Phase I multi-center clinical trial (investigator-initiated by James Reidy, MD, SUNY Buffalo)
Evaluated the safety and efficacy of collagen crosslinking with UV light and riboflavin to halt progression of keratoconus, a blinding disease characterized by progressive ectasia of the cornea

2011-2012	Long-term Safety and Effectiveness of the Vega UV-A System for Corneal Collagen Cross-linking in Eyes with Keratoconus or Post-Refractive Ectasia Funding Source: Topcon (and Departmental Funds) Role: Site PI Grant type: Industry-sponsored Phase III multi-center clinical treatment trial Open label treatment trial evaluating the long-term efficacy of collagen cross-linking for keratoconus and post-refractive ectasia patients age 12 and older
2009-2013	Role of Human Tears in Acanthamoeba Keratitis Funding Source: NEI to Noorjahan Panjawani PhD, Tufts School of Medicine Role: Collaborator Grant type: Research Collection of tears and saliva from patients with Acanthamoeba keratitis to aid in laboratory studies of possible protective factors
2017-2020	University of Chicago Bucksbaum Institute Master Clinician Award ($230,000 award) Role: PI Award given to support PI and departmental research efforts
2018-2020	Zoster Eye Disease Study Funding Source: Subcontract from NYU Role: Chair of the Clinical Event Review Committee Prime Award No. 5U10EY026869-03 Subaward No. 16-A0-00-005168-01 Effort % in the current budget period (8/1/19-7/31/20): 5.34%
2018-present	Rho Kinase Inhibitors for Corneal Endothelial Rejuvenation ($50,000 award) Funding Source: Kowa Research Institute Role: PI Award to support development of a protocol for a multi-center, international randomized trial of topical ripasudil following Descemet stripping only in patients with Fuchs corneal dystrophy

Report of Local Teaching and Training

Teaching of Students in Courses

2008	Molecular Bases of Eye Disease	HMS Course faculty, 2 hour lecture topic "Ocular Infections"
2008, 2010,2014	Patient-Doctor II: Ophthalmic Examination	HMS 2nd year students One 3 hour session each year
2015-2018	Ophthalmic Exam Basics for Second Year Students	U of C 1st and 2nd year students Two 3 hour sessions per year

Formal Teaching of Residents, Clinical Fellows and Research Fellows

1997	**Initial Management of the Injured Eye**. Ophthalmology residents and fellows	MEEI One hour lecture
1997	**Management of the Neurotrophic Cornea** Ophthalmology residents and fellows	MEEI One hour lecture
1998	**Vernal Keratoconjunctivitis** Ophthalmology residents and fellows	MEEI One hour lecture
1998	**Management of Alkali Burns of the Cornea**	MEEI

	Ophthalmology residents and fellows	One hour lecture
1998-2007	**Diagnosis and Management of Infectious Keratitis**. Ophthalmology residents and fellows	MEEI One hour lecture
1998	**Post-keratoplasty Glaucoma: Causes and Management** Ophthalmology residents and fellows	MEEI One hour lecture
1998	**Diagnosis and Management of Blunt Injury to the Eye and Adnexa** Internal Medicine residents	MGH (Internal Medicine) One hour lecture
2002	**Corneal Dystrophies and Degenerations** Ophthalmology residents and fellows	MEEI One hour lecture
2004	**New Insights into the Ocular Surface** Ophthalmology residents and fellows	MEEI One hour lecture
2004	**Introduction to Corneal Surgery** Ophthalmology residents and fellows	MEEI One hour lecture
2006-2015	**Cornea OKAP (Board) Review** Ophthalmology residents and fellows from all programs within Boston	MEEI Two hour lecture
2010,2013	**Medical and Surgical Management of Ocular Surface Tumors** Cornea fellows, Ophthalmology residents	MEEI One hour lecture
2015-present	**Didactic lectures on various corneal topics** Ophthalmology residents, medical students	University of Chicago 4-6 hours yearly

Clinical Supervisory and Training Responsibilities

1996-1997	Eye Trauma Service MEEI	Two half day clinics per week; staffed approximately 100 open globe repairs during the year
1996-1997	Cataract Consultation Service MEEI	One half day session per week; staffed approximately 60 resident cataract surgeries during the year
1996-1997, 2000-2001	Emergency Eye Services MEEI	One to two half day sessions per week
1997-2000	General Eye Service MEEI	One to two half day sessions per month in clinic and/or operating room
1999-2015	Cornea Service MEEI	Two to three half day clinic sessions per week; three to four days of surgery per month
2001-2015	HMS Basic Ophthalmology Elective	Preceptor for 1 month elective, four to five 3rd or 4th year medical students/year
2001-2015	HMS Advanced Ophthalmology Elective	Preceptor for 1-3 month elective for 4th year medical students; typically one student per year
2001-2015	Ophthalmology Residents' Biennial Course HMS	Preceptor for 1-2 residents/every other year for podium presentation and preparation of review article
2001-2013	Ophthalmology Fellows' Annual Course HMS	Preceptor for 1-2 fellows/year for podium presentation and/or preparation of review article

2008-2015	Pediatric Cornea Service Boston Children's Hospital	Three half day subspecialty clinic per month; surgery as needed
2011-2015	Surgical Wet Lab Mentor	One of 6 MEEI faculty members chosen by the residents to lead one-on-one wet lab sessions – 8 two hour sessions per year

Formal Teaching of Peers (e.g., CME and other continuing education courses)

No presentations below were sponsored by any outside entities

1997	**Management of Open Globe Injuries** Update on Ophthalmology (sponsor: MEEI)	One talk Boston, MA
1997-98	**Emergency Medicine and Anesthesia** The Harvard Medical School Intensive Review of Ophthalmology (sponsor: HMS)	One talk Boston, MA
1999	**Mitochondria in Fuchs Corneal Dystrophy** 21st Biennial Cornea Research Conference (sponsors: MEEI/SERI/Tufts/BU)	One talk Boston, MA
2000-2001	**Essentials of Anterior Segment Trauma** The Harvard Medical School Intensive Review of Ophthalmology (sponsor: HMS)	One talk Boston, MA
2000	**Infections of the Cornea** The Harvard Medical School Intensive Review of Ophthalmology (sponsor: HMS)	One talk Boston, MA
2004	**Ethics in Clinical Research** Harvard Medical School Department of Ophthalmology 2004 Update on Ophthalmology (sponsor: HMS)	One talk Boston, MA
2005	**Diagnosis and Management of Conjunctival Neoplasia** Harvard Medical School Department of Ophthalmology 2005 Update on Ophthalmology (sponsor: HMS)	One talk Boston, MA
2008	**Advances in Corneal Surgery** The Global Clinic 2008: Heathcare Management for Physician Executives (sponsor: HMS)	One talk Boston, MA

Local Invited Presentations

1997	**Diagnosis of Open Globe Injuries** MGH Department of Surgery Trauma Rounds
1998	**The Comprehensive Eye Exam** MEEI Ophthalmic Technician Certification Course
1998-2003	**Ocular Anatomy and Physiology** MEEI First Assisting In Cataract Surgery Course
2001	**Fuchs' Corneal Dystrophy: Past, Present and Future** Schepens Eye Research Institute Faculty Lecture Series
2003	**Selective Replacement of the Corneal Endothelium: State of the Art** Schepens Eye Research Institute Faculty Lecture Series.
2004	**Clinical Review of Ocular Surface Disorders** Schepens Eye Research Institute Ocular Surface Special Interest Group
2004	**Phone Triage for Ophthalmic Office Staff** MEEI Support Staff Monthly Education Conference

2006	**The Fuss about Fusarium (and Acanthameoba): Factors Underlying the Recent Epidemic of Atypical Keratitis**. Schepens Eye Research Institute Faculty Lecture Series
2007	**The Boston Keratoprosthesis: Use in Graft Failure and Congenital Corneal Opacities.** Longwood Medical Area Ophthalmology Conference
2007	**What Nurses Need to Know about the Boston Keratoprosthesis** MEEI Nurses Monthly Education Conference
2009	**Curing Blindness through Technology: The Boston Keratoprosthesis and the Implantable Miniature Telescope.** Schepens Eye Research Institute Faculty Lecture Series
2009, 2011	**Herpes Simplex Keratitis in Children**. Boston Children's Hospital Ophthalmology Departmental Meeting.
2010	**Collagen Cross-linking for Keratoconus**. HMS Department of Ophthalmology Annual/Alumni Meeting.
2010	**The Boston Keratoprosthesis: Improved Outcomes and Expanding Indications**. Fourth Military Symposium on Ocular and Vision Injury, Schepens Eye Research Institute
2010	**Collagen Cross-linking for Keratoconus**. Boston Children's Hospital Ophthalmology Departmental Meeting
2011	**Diagnosis and Management of Allergic Eye Disease**. Boston Children's Hospital Allergy Departmental Meeting
2012	**Diagnosis and Management of Keratoconus.** Schepens Eye Research Institute Faculty Lecture Series
2012	**Collagen Cross-linking for Keratoconus**. Fifth Military Symposium on Ocular and Vision Injury, Schepens Eye Research Institute
2014	**Update on Conjunctival Melanoma**. MGH Department of Pathology Grand Rounds
2014	**Management of Corneal Disease in Children**. Boston Children's Hospital Ophthalmology Departmental Meeting
2016	**Fuchs Corneal Dystrophy: Past, Present and Future**. 2016 Harvey Z. Klein Lecture, University of Chicago
2016	**My Secrets to Success and Fulfillment in Medicine**. Keynote Address 2016 Pritzker School of Medicine White Coat Ceremony, University of Chicago
2016	**Curing Blindness through Technology: A New Hope**. Louis Block Named Professor Lecture, University of Chicago
2021	**Update on Descemet Stripping Only/Controversies in the Diagnosis and Management of Ocular Surface Tumors**. NYU Langone Health Current Concepts of Ophthalmology 2021 (virtual)
2022	**Corneal Complications from Systemic Drugs/Avoiding Unhappy Premium IOL patients: Corneal Conditions You Must Not Miss**. NYU Langone Health Current Concepts of Ophthalmology 2022 (virtual)

Report of Regional, National and International Invited Teaching and Presentations

Invited Presentations and Courses

Those presentations below sponsored by outside entities are so noted and the sponsor is identified

Regional

1998	**Diagnosis of Common Anterior Segment Diseases**/Invited talk Massachusetts Eye Physicians and Surgeons Ophthalmic Technicians Certification Course, Needham, MA
1999	**Eye Emergency Room: Essentials of Trauma Assessment**/Invited talk New England Ophthalmological Society Continuing Education Seminar for Ophthalmic Medical Personnel, Boston, MA
1998-2004	**Diagnosis and Management of Infectious Keratitis**/Invited talks Lancaster Course in Ophthalmology, Waterville, ME
2000	**LASIK after Penetrating Keratoplasty; Diffuse Lamellar Keratitis in the absence of a LASIK Flap**/2 invited talks Kevin Hill Course in Ophthalmology, Colby College, Waterville, ME

2002 **Corneal Dystrophies and Degenerations**/Invited talk
Lancaster Course in Ophthalmology, Waterville, ME

2003 **The Implantable Miniature Telescope: New Hope for Patients with Macular Degeneration**.
New England Ophthalmological Society Continuing Education Seminar for Ophthalmic Medical Personnel, Boston, MA

2003 **New Insights into Ocular Surface Anatomy and Physiology; Blepharitis/Dry Eye Syndrome; Beyond Penetrating Keratoplasty:Endokeratoplasty and Keratoprosthesis; Viral Keratitis/**4 invited talks
Kevin Hill Course in Ophthalmology, Colby College, Waterville, ME

2005 **Update on Ocular Surface Tumors**/Invited talk
New England Ophthalmological Society 704th Meeting, Boston, MA

2006 **Eye Trauma: Diagnosis and Prevention**/Invited talk
New England Ophthalmological Society Update on Ophthalmology for Primary Care Physicians, Needham, MA

2006 **The Implantable Miniature Telescope for ARMD**/Invited talk
New England Ophthalmological Society 711th Meeting, Boston, MA

2007 **Pediatric Keratoprosthesis: Perils and Promise**/Invited talk
New England Ophthalmological Society 716th Meeting, Boston, MA.

2008 **Update on Herpes Simplex and Herpes Zoster; Uses of Amniotic Membrane in Corneal and Ocular Surface Surgery**/2 invited talks
New England College of Optometry 2008 Education Series, Boston, MA

2010 **Pediatric Keratoplasty: Promise and Pitfalls**/Grand Rounds
Boston University School of Medicine Department of Ophthalmology, Boston, MA

2010 **Collagen Cross-linking for Keratoconus/**Invited talk
New England Ophthalmological Society 730th Meeting, Boston, MA

2010 **Update on the Implantable Miniature Telescope**/Invited talk
New England Ophthalmological Society 732nd Meeting, Boston, MA

2012 **Avoiding Unhappy Premium IOL Patients: Corneal Conditions You Must Not Miss**/Invited talk
New England Ophthalmological Society 738th Meeting, Boston, MA

2012 **Update on the Boston KPro**/Invited talk
New England Ophthalmological Society 739th Meeting, Boston, MA

2012 **Medical and Surgical Management of Ocular Surface Neoplasia**/Invited talk
New England Ophthalmological Society 739th Meeting, Boston, MA

2012 **Update on Conjunctival Tumors**/Invited talk
New England Ophthalmological Society 741st Meeting, Boston, MA

2014 **Descemet Stripping Endothelial Keratoplasty using Eye Bank-Prepared Pre-loaded Grafts: Faster, Cheaper, Better?**/Invited talk
New England Ophthalmological Society 750th Meeting, Boston, MA

2015 **Choosing between PK and KPro in Challenging Conditions**/Invited talk
New England Ophthalmological Society 755th Meeting, Boston, MA

2015 **Controversies in the Management of Ocular Surface Tumors/**Invited talk
2015 University of Illinois at Chicago Cornea Symposium, Chicago, IL

2015 **Ocular Surface Squamous Neoplasia: Medical versus Surgical Therapies**/Invited talk
New England Ophthalmological Society 757th Meeting, Boston, MA

2016 **Novel Treatments for Fuchs Corneal Dystrophy**/Invited talk
2016 Illinois Society of Eye Physicians and Surgeons/Chicago Ophthalmologic Society Annual Meeting, Rosemont, IL

2016	**Diagnosis and Management of Ocular Surface Tumors**/Invited Talk Chicago Curriculum in Ophthalmology
2017	**Tips to Avoid Trouble When Managing Ocular Surface Tumors**/Invited talk 2017 Illinois Society of Eye Physicians and Surgeons/Chicago Ophthalmologic Society Annual Meeting, Rosemont, IL
2017	**Getting it All Done: Time Management Strategies for Busy Leaders**/Invited talk 2017 Illinois Society of Eye Physicians and Surgeons/Chicago Ophthalmologic Society Annual Administrators Meeting, Rosemont, IL
2017	**Fuchs Dystrophy: Past, Present and Future**/ Grand Rounds Northwestern Department of Ophthalmology, Chicago, IL
2017	**Management of Ocular Surface Tumors/Update on Corneal Surgery**/Visiting Professor Northwestern Department of Ophthalmology, Chicago, IL
2017	**Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited talk 2017 University of Illinois at Chicago Cornea Symposium, Chicago, IL
2017	**New Therapies for Fuchs Dystrophy/Update on Corneal Surgery**/Invited talks Wisconsin Academy of Ophthalmology, Milwaukee, WI
2018	**Fuchs Dystrophy: Past, Present and Future**/Grand Rounds Medical College of Wisconsin Department of Ophthalmology, Milwaukee, WI
2020	**Innovation in Ophthalmology: The Evolution of Corneal Surgery**/Invited talk Chicago Curriculum in Ophthalmology Chairman's 2020 Guide to the Galaxy, Chicago, IL
2020	**Descemet Stripping Only: Where Are We Now and Where Are We Going?**/Invited talk 2020 Illinois Society of Eye Physicians and Surgeons/Chicago Ophthalmologic Society Annual Meeting, Rosemont, IL
2020	**What Does the Future Hold for Descemet Stripping?**/Invited talk 2020 University of Illinois at Chicago Cornea Symposium, Chicago, IL
2021	**Innovations in Ophthalmology: The Evolution of Corneal Surgery**/Grand Rounds New York Medical College, Valhalla, NY
2022	**Challenging Cases in Cornea/Update on Corneal Surgery**/Visiting Professor Weill Cornell Department of Ophthalmology, New York, NY

National

1996	**Diagnosis of Common Ocular Disorders**; **Basics of Ocular Anatomy and Examination**/Invited talk and workshop Nurse Practitioner Association for Continued Education, Boston, MA (national meeting)
1997	**Differential Diagnosis of the Red Eye**/Invited talk Nurse Practitioner Association for Continued Education, Boston, MA (national meeting)
2000	Course Faculty: **LASIK Controversies**. American Society of Cataract and Refractive Surgery (ASCRS) Annual Meeting, Boston, MA (national meeting)
2001	**Diagnosis and Management of Eye Emergencies**/Invited lecture Nurse Practitioner Association for Continued Education, Boston, MA (national meeting)
2001-2002	Course Faculty: **Microkeratome-assisted Deep Stromal and Endothelial Lamellar Keratoplasty: Basic Principles and Surgical Techniques**. American Academy of Ophthalmology (AAO) Annual Meeting Instruction Course, New Orleans, LA and Orlando, FL
2003	**Managing Evaporative Loss and Eyelid Inflammation**;**Differential Diagnosis of Dry Eye**/2 invited talks Dry Eye Experts' Summit, Fort Worth, TX (sponsor: Alcon Pharmaceuticals)
2003-2004, 2006	Course Faculty: **Surgical Treatment of Corneal Disease**. AAO Annual Meeting Instruction Course, Anaheim, CA, New Orleans, LA and Las Vegas, NV

2004 **The Role of Inflammation in Dry Eye**/Invited talk
2004 AAO meeting, Comprehensive Ophthalmology Symposium, New Orleans, LA

2006 **Fungal Keratitis: Changing Pathogens, Risk Factors and Treatment Options**/Free paper (selected abstract).
2006 AAO Annual Meeting, Cornea and External Disease Section, Las Vegas, NV

2006 **The Boston Keratoprosthesis: Beyond Graft Failure**/Invited talk
2006 AAO meeting, Spotlight on Corneal Surgery Symposium, Las Vegas, NV

2006 **Recipes for Contact Lens Patients with Infections, Allergy or Dry Eye**/Plenary talk
2006 Contact Lens and Eyecare Symposium (CLES), Orlando, FL.

2006 **Doctor, Why are my eyes red and scratchy? How to tell if it's allergy, infection or dry eye**/Invited talk
2006 American Academy of Allergy, Asthma and Immunology (AAAAI), Miami, FL

2006 **Chemical Injuries of the Cornea**; **Keratoprosthesis**; **Ocular Surface Tumors: What's New with Surgical and Medical Management**/3 invited talks
16th Biennial Cornea Conference, Wills Eye Hospital, Philadelphia, PA

2007 **Future Directions in Selective Endothelial Transplantation; Update on Ocular Surface Tumors**/2 invited talks
University of Chicago at Illinois Annual CME Program, Punta Cana, DR.

2007-2010 Course Faculty: **The Boston Keratoprosthesis: What You Don't Know Will Surprise You.** ASCRS Annual Meeting Course, San Diego, CA, Chicago, IL, San Francisco, CA and Boston, MA

2007 **Surgical Technique for Placement of the Implantable Miniature Telescope**/Free paper (selected abstract)
2007 ASCRS meeting, Retina Section, San Diego, CA

2007 **Prognostics Features of PAM with Atypia**/Free paper (selected abstract)
2007 Cornea Society Meeting, New Orleans, LA

2007 **Atypical Keratitis – An Increasing Menace?**/Grand Rounds
Cornell Medical School Dept of Ophthalmology, NY, NY

2007 **The Implantable Miniature Telescope: Pros**/Invited talk
2007 AAO Meeting, Vision Rehabilitation Section, New Orleans, LA

2008 **Combined ECCE-PCIOL and Type I Boston Keratoprosthesis in the Treatment of Peters Anomaly: The KPro Triple**/Free paper (selected abstract)
2008 ASCRS Meeting, Challenging Cataract Cases in Children Symposium, Chicago, IL

2008 **Ethics in Clinical Research**/Invited talk
2008 AAO Annual Meeting, Vision Rehabilitation Education Day, Atlanta, GA

2009 **Update on the Boston Keratoprosthesis**/Invited talk
University of Chicago at Illinois Annual CME Program, Cancun, Mexico

2009 **Keratoprosthesis in the United States**/Invited talk
2009 AAO Annual meeting, Cornea: The Cutting Edge, North and South Symposium, San Francisco, CA

2009-13 Course Faculty: **The Boston Keratoprosthesis: Improving Outcomes and Expanding Indications.** AAO Annual Meeting Course, San Francisco, CA, Chicago, IL, Orlando, FL, New Orleans, LA

2009-11, 2013 Course Faculty: **Extreme Cornea: Management Dilemmas in your practice**
AAO Annual Meeting Course, San Francisco, CA, Chicago, IL, Orlando, FL, New Orleans, LA

2010-14 Course Faculty: **Update on Cornea from the BCSC Faculty**
AAO Annual Meeting Course, Chicago, IL, Orlando, FL, New Orleans, LA, Chicago. IL

2010 **Contact Lenses for Keratoconus**/Invited lecture
2010 Subspecialty Day (Cornea), AAO Annual Meeting, Chicago, IL

2010 **Medical and Surgical Management of Ocular Surface Tumors**/Invited talk

University of South Florida Dept of Ophthalmology, Tampa FL

2011 **Keratoprosthesis: Surgical Techniques and Complication Management**/Invited talk
2011 Cornea Day, ASCRS Annual Meeting, San Diego, CA

2011 **Outcomes of Primary Keratoprosthesis in Patients with Nonautoimmune Conditions**/Free paper (selected abstract)
2011 ASCRS Annual Meeting, San Diego, CA

2011 **The Boston Keratoprosthesis: Past, Present and Future/**Grand Rounds
Penn State Medical School Dept of Ophthalmology, Hershey, PA

2011 **Medical and Surgical Management of Ocular Surface Tumors**/Invited talk
Penn State Medical School Dept of Ophthalmology, Hershey, PA

2011 **Pediatric Herpes Simplex Keratitis: Patient Characteristics, Treatment and Outcomes**/Free paper (selected abstract), 2011 AAO Annual Meeting, Orlando, FL

2011 **Pediatric Keratoprosthesis: Perils and Promise**/Invited talk
Pediatric Keratoplasty Association Annual Meeting, Orlando, FL

2011 **The Implantable Miniature Telescope: Who is the Best Candidate?/**Invited talk
2011 AAO Vision Rehabilitation Symposium, Orlando, FL

2012 **Management of Glaucoma Following Keratoprosthesis**/Invited Talk
2012 ASCRS Annual Meeting, Chicago, IL

2012 **Update on Corneal Surgery**/Keynote Address
Women in Ophthalmology (New York Chapter) Annual Meeting, New York, NY

2012 **HSV in Children: A Case-Based Approach**/Invited Talk
2012 AAO AAPOS Symposium, Chicago, IL

2012 **The Evidence for Treatment of Ocular Surface Squamous Neoplasia**/Invited talk
2012 AAO American Association of Ophthalmic Oncologists and Pathologists (AAOOP) Symposium, Chicago, IL

2012 **Corneal Collagen Cross-linking for Keratoconus: Impact on Optics**/Invited talk
2012 AAO CLAO Symposium, Chicago, IL

2012 **Medical and Surgical Management of Ocular Surface Tumors/Herpes Simplex in Children/Advances in the Surgical Management of Corneal Diseases**/Invited speaker
63rd Annual Post-Graduate Review Course in Ophthalmology, Upstate Medical University, Syracuse, NY

2013 Course Faculty: **Infectious Keratitis in Children**
AAO Annual Meeting Course, New Orleans, LA

2014 **2014 Arthur J. Bedell MD Lecture: Management of the Pediatric Cornea: It's Not Just Child's Play**/Invited lecture
Wills Eye Hospital Annual Alumni Meeting, Philadelphia, PA

2014 **Pediatric Penetrating Keratoplasty**/Invited lecture
2014 Cornea Day, Boston, MA

2014 **Innovations in Keratoprosthesis**/Invited lecture
CLAO symposium/ASCRS Annual Meeting, Boston, MA

2014 **Update on Corneal Surgery**/Invited lecture
Women in Ophthalmology Annual Meeting, Leesburg, VA

2014 **Controversies in the Management of Ocular Surface Neoplasia/Update on Cross-linking/Update on Keratoprosthesis**/Invited lectures
2014 Cornea Fellows Educational Summit, Tampa, FL

2014 **Recurrent Red Eye**/Invited lecture
2014 Pediatric Ophthalmology and Strabismus Subspecialty Day, Chicago, IL

2014 Course Faculty: **Pediatric Corneal Disorders: A Comprehensive Overview**
AAO Annual Meeting Course, Chicago, IL

2015 **Management of Pediatric Corneal Disease**/Grand Rounds
University of California, San Francisco Department of Ophthalmology, San Francisco, CA

2015 **Update on Corneal Surgery**/Invited lecture
University of California, San Francisco Department of Ophthalmology, San Francisco, CA

2015 **Controversies in the Management of Ocular Surface Tumors/Management of Corneal Disease in Children**/ Invited lectures. SUNY Downstate Department of Ophthalmology Annual Alumni Meeting, Brooklyn, NY

2015 **Controversies in the Diagnosis and Management of Ocular Surface Tumors**/Invited lecture
USC Eye Institute 40th Anniversary Symposium, Pasadena, CA

2015 **Controversies in the Management of Ocular Surface Neoplasia/Update on Keratoprosthesis**/Invited lectures
2015 Cornea Fellows Educational Summit, Tampa, FL

2015 **Management of Glaucoma following Keratoprosthesis**/Invited lecture
Cornea Society Symposium at the 2015 AAO meeting, Las Vegas, NV

2015 **Prophylaxis and Management of Boston Keratoprosthesis Infections**/Invited lecture
2015 Cornea Subspecialty Day, Las Vegas, NV

2016 **Management of the Pediatric Cornea**/Knights Templar Lecture in Ophthalmology
Emory Eye Center, Atlanta, GA

2016 **Update on Corneal Surgery**/Invited lecture
Emory Eye Center, Atlanta, GA

2016 **Controversies in the Management of Ocular Surface Tumors**/2016 Lorand Johnson Lecture
Cleveland Ophthalmological Society, Cleveland, OH

2016 **Surgical Management of Severe Ocular Surface Disease**/Invited lecture
Cleveland Ophthalmological Society, Cleveland, OH

2016 **Fuchs Dystrophy: Past, Present and Future**/Grand Rounds
Case Western Reserve University School of Medicine, Cleveland, OH

2016 **Primary Descemetorhexis: It's a Good Idea**/Invited lecture
2016 Cornea Day, New Orleans, LA

2016 **Management of Corneal Disease in Children** /Grand Rounds
University of Wisconsin, Madison, WI

2016 **Update on Corneal Surgery**/Invited lecture
University of Wisconsin, Madison, WI

2016 **Fuchs Dystrophy: Past, Present and Future**/2016 Mariana D Mead MD Lecture
Harvard Medical School Department of Ophthalmology Annual Meeting, Boston, MA

2016 **Finding Success in Academic Medicine**/invited lecture
2016 Women in Ophthalmology Meeting, Williamsburg, VA

2016 **Update of the Diagnosis and Management of Ocular Surface Tumors**/Invited talk
Yale University Department of Ophthalmology, New Haven, CT

2016 **Fuchs Corneal Dystrophy: Past, Present and Future**/Grand Rounds
Yale University Department of Ophthalmology, New Haven, CT

2016 **The Bump that Stumped Me**/Invited talk
2016 AAO Cornea Subspecialty Day, Chicago, IL

2016 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited talk
2016 AAO Meeting, Chicago. IL

2017 **Controlling Chair Chaos: Time Management Strategies for Busy Leaders**/Invited moderator
2017 American Association of University Professors (AUPO), San Diego, CA

2017 **Update on Corneal Surgery**/Invited talk
Vanderbilt University Department of Ophthalmology, Nashville, TN

2017 **Controversies in the Management of Ocular Surface Tumors**/Invited talk
Nashville Academy of Ophthalmology, Nashville, TN

2017 **Treatment of Fuchs Dystrophy without Corneal Grafting**/Invited talk
Netherlands Institute for Innovative Ocular Surgery USA Cornea Evening, Los Angeles, CA

2017 **Fuchs Dystrophy: Past, Present and Future**/2017 Richard D Richards MD Lecture
University of Maryland School of Medicine Department of Ophthalmology Richard D Richards Day, Baltimore, MD

2017 **Time Management Strategies for Work-Life Harmony**/Invited talk
2017 Women in Ophthalmology Meeting, San Diego, CA

2017 **Fuchs Dystrophy: Past, Present and Future**/2017 Roger F Meyer, MD Lectureship in Cornea
University of Michigan Department of Ophthalmology, Ann Arbor, MI

2017 **Update on Corneal Surgery/Controversies in the Management of Ocular Surface Tumors**/ Visiting Professor
University of Michigan Department of Ophthalmology, Ann Arbor, MI

2017 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited talk
30th Biennial Cornea Conference, Harvard Medical School, Boston, MA

2017 **Pediatric Keratoprosthesis:Con**/Invited talk
AAO Pediatric Subspecialty Day, New Orleans, LA

2017-19, 2021 Course Faculty: **The Boston KPro: A Case-based Approach for Beginning and Experienced Surgeons**
2017 AAO Annual Meeting, New Orleans, LA

2017 Skills Transfer Laboratory Instructor: **Microsurgical Suturing Techniques**
2017 AAO Annual Meeting, New Orleans, LA

2017 **Fuchs Dystrophy: Past, Present and Future**/Visiting Professor
University of Rochester Flaum Eye Institute, Rochester, NY

2018 **Management of Corneal Disease in Children/Update on Corneal Surgery**/Visiting Professor
UC Davis Health System Eye Center, Davis, CA

2018 **Update on Keratoprosthesis/Controversies in the Management of Ocular Surface Tumors**/Invited Faculty
Cornea Society Fellows Summit, Atlanta, GA

2018 **Descemet Stripping without Keratoplasty/Keratoprosthesis: How Has Technology Changed**/Invited Faculty
Wilmer Eye Institute Current Concepts in Ophthalmology, Vail, CO

2018 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited talk
Sixth Fuchs Symposium, Philadelphia, PA

2018 **Descemet Stripping Only as a Treatment for Fuchs Dystrophy**/Invited talk
Netherlands Institute for Innovative Ocular Surgery USA Cornea Evening, Washington, DC

2018 **Confessions of an Imposter: Recognizing and Managing the Imposter Syndrome**/Invited talk
2018 Women in Ophthalmology Meeting, Ponte Vedra Beach, Florida

2018 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Keynote Address
Controversies in the Diagnosis and Management of Ocular Surface Tumors/Invited talk
3rd Annual Transformational Ophthalmology Symposium/New York Eye and Ear Infirmary of Mount Sinai, NY

2018 **Descemet Stripping Only: Can We Do Without a Graft?**/Invited talk
Cornea Subspecialty Day, American Academy of Ophthalmology Annual Meeting, Chicago, IL

2018 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/2018 Whitney G Sampson Lecture
American Academy of Ophthalmology Annual Meeting, Chicago, IL

2018-21 Course Faculty: **New Therapies for Corneal Endothelial Diseases**
2018-2020 AAO Annual Meeting, Chicago, IL (2018), San Francisco, CA (2019), virtual (2020/2021)

2018 **Time Management to Optimize Work-Life Harmony**/Invited talk
2018 AAO Annual Meeting, Chicago, IL

2019 **Optimizing Faculty Recruitment in a Small Department**/Invited talk
Association of University Professors of Ophthalmology Annual Meeting, Fort Lauderdale, FL

2019 **What is the Future for Fuchs Endothelial Dystrophy: Descemet Stripping**/Invited talk
Cornea 360, Scottsdale, AZ

2019 **Fuchs Dystrophy: Past, Present and Future**/Invited lecture
University of Massachusetts Department of Ophthalmology and Visual Sciences Vision Seminar Series, Worchester, MA

2019 **Surgical Management of Corneal Disease: Past, Present and Future**/The 2019 Jack M. Dodick Annual Lectureship
New York University Department of Ophthalmology, NY, NY

2019 **Controversies in the Diagnosis and Management of Ocular Surface Tumors/**Grand Rounds
New York University Department of Ophthalmology, NY, NY

2019 **Avoiding Keratoplasty: Descemet Stripping Only/**Invited talk
Cornea Subspecialty Day, American Academy of Ophthalmology Annual Meeting, San Francisco, CA

2019 **Wait! What About Descemet Stripping Only?**/Invited talk
Controversies in Cornea Symposium/American Academy of Ophthalmology Annual Meeting, San Francisco, CA

2019 Course Faculty: **Pediatric Corneal Conditions: Challenges and Pitfalls**
American Academy of Ophthalmology Annual Meeting, San Francisco, CA

2019 **Current Status of Descemet Stripping Only**/Invited talk
Endothelial Keratoplasty Study Group Meeting, San Francisco, CA

2020 **The Evolution of Corneal Surgery: The 2020 Herbst Foundation Lecture/Controversies in the Diagnosis and Management of Ocular Surface Tumors**/Invited talks
Connecticut Society of Eye Physicians, Plantsville, CT

2020 **Descemet Stripping Only: Where are We Now and Where Are We Going?**/Invited talk
Seventh Fuchs Symposium, West Palm Beach, FL

2020 **Leadership Styles and Traits**/Invited talk
Association of University Professors of Ophthalmology Annual Meeting, Palm Springs, CA

2020 **Status of Women in Ophthalmology in 2020**/Invited talk
Women in Ophthalmology Symposium at AUPO Annual Meeting, Palm Springs, CA

2020 **Advances in Corneal Surgery: Past, Present and Future**/Grand Rounds
Columbia University Department of Ophthalmology

2020 **Avoiding Unhappy Premium IOL Patients: Corneal Conditions You Must Not Miss/Management of Corneal Edema after Cataract Surgery**/Invited faculty
University of California San Diego Ophthalmology Update 2020, Carlsbad, CA

2020 **Descemet Stripping Only: Current State and Future Directions/Update on Keratoprosthesis/Neurotrophic Keratitis/Diagnosis and Management of Ocular Surface Tumors**/Invited Faculty
Wilmer Eye Institute Current Concepts in Ophthalmology, Vail, CO

2020 **Corneal Transplantation in the Setting of COVID-19: Cornea Society Perspective**/Invited talk
Eye Bank Association of America Annual Meeting (virtual)

2020 **Designing Your Life: Creating a Life of Meaning and Joy**/2020 Bernice Brown MD Award lecture
Women in Ophthalmology Annual Meeting (virtual)

2020 **Ophthalmic issues in the COVID-19 pandemic**/Invited panelist
Women in Ophthalmology Annual Meeting (virtual)

2020 **Innovation in Ophthalmology: The Evolution of Corneal Surgery/Controversies in the Diagnosis and Management of Ocular Surface Tumors**/Invited talks
Nebraska Academy of Eye Physicians and Surgeons Annual Scientific Meeting (virtual)

2020 **Controversies in the Diagnosis and Management of Ocular Surface Tumors**/Invited talk
Minnesota Academy of Ophthalmology (virtual)

2020 **Challenging Cases in Cornea**/Invited Grand Rounds
University of Minnesota (virtual)

2020 **Innovation in Ophthalmology: The Evolution of Corneal Surgery**/Ellis Lecture
Louisiana State University Department of Ophthalmology, New Orleans, LA (virtual)

2020 **Grand Rounds: Cases and Experts From Across the World**/Invited Panelist
American Academy of Ophthalmology Annual Meeting Symposium (virtual)

2020-21 **Update on Descemet Stripping Only/Diagnosis and Management of Ocular Surface Tumors/Corneal Considerations in Cataract Surgery**/Invited talks
2020 and 2021 Cornea Society Fellows Summit (virtual)

2021 **Innovation in Ophthalmology: The Evolution of Corneal Surgery**/Grand Rounds
University of California, San Francisco Department of Ophthalmology, San Francisco, CA (virtual)

2021 **Innovation in Ophthalmology: The Evolution of Corneal Surgery**/Visiting Professor
Department of Ophthalmology, Dell Medical School at UT Austin, Austin, TX (virtual)

2021 **What will the Future Hold for the Management of Fuchs Dystrophy?**
Controversies in the Diagnosis and Management of Ocular Surface Tumors/Guest of Honor
New England Ophthalmological Society, Boston, MA (virtual)

2021 **Innovation in Ophthalmology: The Evolution of Cornea Surgery/Challenging Cases in Cornea**/Visiting Professor
Department of Ophthalmology, University of Kentucky, Lexington, KY

2021 **Update on DSO**/Invited talk
2021 Cornea and Eye Banking Forum, New Orleans, LA

2021 **Medical Treatment of Fuchs Endothelial Corneal Dystrophy**/Invited talk
Cornea Subspecialty Day, American Academy of Ophthalmology Annual Meeting, New Orleans, LA

2021 **I'm Interested in Clinical Trials, But Where Do I Begin?**/Invited talk
American Academy of Ophthalmology Annual Meeting, New Orleans, LA

2021 **Management of the Pediatric Cornea: It's Not Just Child's Play/Challenging Cases in Cornea**/2021 Ellis lecture
Louisiana State University Department of Ophthalmology, New Orleans, LA

2021 **Fuchs Dystrophy: Past, Present and Future**/2021 Joseph Smiddy Memorial lecture
Wilmer Eye Institute's 34th Annual Current Concepts in Ophthalmology, Baltimore, MD (virtual)

2022 **Understanding Your Medical School's Structure**/Invited talk
Association of University Professors of Ophthalmology Boot Camp for New Chairs, Fort Lauderdale, FL

2022 **Building the Faculty Team: Bringing Out the Best in Everyone**/Invited talk
Association of University Professors of Ophthalmology Annual Meeting, Fort Lauderdale, FL

2022 **Making the Most of the AUPO Salary Survey: First Look at Gender Data**/Invited talk
Association of University Professors of Ophthalmology Annual Meeting, Fort Lauderdale, FL

2022 **Update on Descemet Stripping Only**/Invited talk
Midwest Cornea Meeting, Big Sky, MT

2022 **Descemet Stripping without Endothelial Replacement for Fuchs Dystrophy: Past, Present and Future**/invited talk
Inaugural Fuchs Corneal Dystrophy Awareness Conference, Massachusetts Eye and Ear Infirmary, Boston, MA (virtual)

International

1998 **Comparison of PRK and LASIK for the Correction of Moderate Myopia and Myopic Astigmatism**/Invited talk
Inaugural Meeting of the Asia-Pacific Society of Cornea and Refractive Surgery, Singapore

2005 **Blockage of Glaucoma Tube Shunts in Patients with the Boston Keratoprosthesis: Relationship to Lens Status**/Invited talk
2005 European Association for Vision and Eye Research (EVER) Meeting, Vilamoura, Portugal

2006 **New Tools for Managing Dry Eye**/Invited talk
2006 European Dry Eye Experts' Summit, Barcelona, Spain (sponsor: Alcon Pharmaceuticals)

2007 **Update on the Boston Keratoprosthesis**/Invited talk
2007 European Association for Vision and Eye Research (EVER) Meeting, Portoroz, Slovenia.

2008 **Update on Eye Trauma; Boston Keratoprosthesis; Complications following Penetrating Keratoplasty; Ocular Surface Neoplasia; Implantable Miniaturized Telescope**/Invited talks
The XIV White Nights Ophthalmologic Congress and the IV Congress of the Interregional Association of Ophthalmologists, St Petersburg, Russian Federation

2008 **E.A. Baker Lecture: Update on Conjunctival Melanoma; Boston Keratoprosthesis: New Hope for Corneal Blindness; Surgical Aspects of the Boston Keratoprosthesis; Implantable Miniaturized Telescope for Macular Degeneration**/Invited talks/Canadian Ophthalmological Society Annual Meeting, Whistler, British Columbia, Canada

2008 **Pediatric Keratoplasty**/Grand Rounds
University of Montreal, Montreal, Canada

2009 **New Contact Lens Technologies for Keratoconus**/Invited talk
European Society of Ophthalmology (SOE) Biennial Meeting, Amsterdam, Netherlands

2010 **Boston Keratoprosthesis: Managing Complications**/Invited talk
2010 World Cornea Congress, Boston, MA (international meeting)

2011 **Surgical Management of Severe Ocular Surface Disease**/Invited talk
European Society of Ophthalmology (SOE) Biennial Meeting, Geneva, Switzerland

2011 **Herpes Simplex Keratitis in Children/Update on the Boston Keratoprosthesis**/Invited talks
3rd Atlantic Eye Symposium, Halifax, Nova Scotia

2011 **Pigmented Tumors of the Ocular Surface: Diagnosis and Management**/Invited talk
2nd EU Cornea Congress, Vienna, Austria

2012 **Retroprosthetic Membranes following Boston KPro: Why do they form and how can we prevent them?**/Free paper (accepted abstract). 8th KPro Study Group Meeting, Miami, FL

2012 **The Boston KPro for Aniridia: Avoiding Complications and Optimizing Outcomes**/Invited talk
1st European Conference on Aniridia, Oslo, Norway

2012 **Update on the Boston KPro**/Invited talk
EVER 2012, Nice, France

2012 **Diagnosis and Management of Keratoconus/Allergic Eye Disease in Children/Pediatric Keratoprosthesis:Perils and Promise/Ocular Surface Surgery in Children**/Invited speaker
4th Annual Corneal Services Barbados Advanced Eye Care Lecture Series, Barbados

2013 **Diagnosis and Management of Vernal Keratoconjunctivitis**/Invited speaker
International Symposium on Ocular Pharmacology and Therapeutics, Paris, France

2013 **Diagnosis and Mangement of Ocular Surface Tumors/Management of Vernal Keratoconjunctivitis/Herpes Simplex in Children/Contact Lens Management of Keratoconus/Expanding Indications for the Boston Keratoprosthesis**/Invited speaker
LVII Curso de Formacion y Perfeccionamiento de Oftalomologos, Santiago, Chile

2013 **Boston Keratoprosthesis in Children/Contact Lenses for Ectatic Disease**/Invited talks
European Society of Ophthalmology (SOE) Biennial Meeting, Copenhagen, Denmark

2013 Course Director: **Current Concepts in Corneal Surgery**
European Society of Ophthalmology (SOE) Biennial Meeting, Copenhagen, Denmark

2013 **Ocular Surface Tumors: Tips to Avoid Trouble**/Invited speaker/DOG (German Ophthalmologic Society) Meeting, Berlin, Germany

2013 **Future Directions for the Boston KPro**/Invited speaker and symposium chair/EUCornea meeting, Amsterdam, Netherlands

2014 **Wound anatomy following Boston KPro: Effects on RPM formation and development of glaucoma**
Free paper (accepted abstract). 9th KPro Study Group Meeting, Salzburg, Austria

2014 **Update on Ocular Surface Tumors**/Invited Keynote Address
XIII SICSSO Congress, Salerno, Italy

2015 **Diagnosis and Management of Neurotrophic Keratitis**/Invited lecture
European Society of Ophthalmology (SOE) Biennial Meeting, Vienna, Austria

2015 **Ocular Surface Surgery in Children**/Invited talk
XXXIII European Society of Cataract and Refractive Surgery Meeting, Barcelona, Spain

2015 **Pediatric Herpes Simplex of the Anterior Segment**/Free Paper (accepted abstract)
XXXIII European Society of Cataract and Refractive Surgery Meeting, Barcelona, Spain

2015 **Boston Keratoprosthesis Wet Lab**/Invited faculty
XXXIII European Society of Cataract and Refractive Surgery Meeting, Barcelona, Spain

2015 **Boston KPro Designs, Assembly and Surgical Techniques/Infections and Antibiotic Prophylaxis/Management of Retroprosthetic Membranes/Diagnosis and Management of Sterile Vitritis/ Fuchs Dystrophy: Past, Present and Future**/Invited talks
18th Congresso de Oftalmologia, Sao Paulo, Brazil

2016 **Novel Treatments for Fuchs Dystrophy/Controversies in the Diagnosis and Management of Ocular Surface Tumors/Corneal Surgery in Children: How, When, Why and Why Not/Update on the Boston Keratoprosthesis**/Invited talks
Les Entretiens Ophtalmologiques de l'Universite de Montreal (EOUM), Montreal, Canada

2016 **Rethinking the Pathogenesis of Fuchs Dystrophy/Update on Conjunctival Melanoma**/Invited talks
XV SICSSO Congress, Caserta, Italy

2016 **Clinical Conundrum: Large amelanotic lesion of the conjunctiva**/Invited talk
7th Annual EUCornea Congress, Copenhagen, Denmark

2016 **Descemetorhexis without Endothelial Keratoplasty**/Invited talk
Netherlands Institute for Innovative Ocular Surgery Cornea Evening, Copenhagen, Denmark

2017 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited talk
Inaugural PanCornea International Congress, Miami, FL

2017 **Allergic Conjunctivitis: Update on Diagnosis and Management**/Invited talk
European Society of Ophthalmology (SOE) Biennial Meeting, Barcelona, Spain

2017 **Contact Lenses in Corneal Dystrophies**/Invited talk
DOG (German Ophthalmologic Society) Meeting, Berlin, Germany

2018 **Treatment of Fuchs Dystrophy by Descemet Stripping without Endothelial Keratoplasty/My Worst Corneal Ulcer Ever/Cataract Surgery in Fuchs Dystrophy/Descemet Stripping Only (DSO) for Fuchs Dystrophy: Advantages, Disadvantages and Future Directions/Optimizing the Ocular Surface Prior to Cataract Surgery/Management of Corneal Edema after Cataract Surgery/Management of Ocular Surface Lesions in Patients Considering Cataract Surgery/Avoiding Unhappy Premium IOL Patients: Corneal Conditions You Must Not Miss/Details that Make a Difference**/Invited talks
XVIII International Congress of Cataract and Refractive Surgery/Sao Paulo, Brazil

2018 **Endothelial Evaluation Without a Specular Microscope/Management of Ocular Surface Tumors in Children/KPro When All Else Fails**/Invited talks
World Ophthalmology Congress/Barcelona, Spain

2018 **Keratoprosthesis in Children**/Invited talk
11th KPro Study Group Meeting/Barcelona, Spain

2018 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping**/Invited Medal Lecture
International Congress of the Italian Society of Stem Cells and Ocular Surface/Paestum, Italy

2019 **The Nerve of You: Update on the Management of Neurotrophic Keratitis**/Invited talk
European Society of Ophthalmology (SOE) Biennial Meeting, Nice, France

2019 **Novel Therapies for Fuchs Dystrophy**/Keynote lecture
Controversies in the Diagnosis and Management of Ocular Surface Tumors/Invited talk
International Congress of the Italian Society of Stem Cells and Ocular Surface/Turin, Italy

2019 **Contact Lenses for the Correction of Keratoconus and Corneal Ectasia/Red Eye One Month after Uncomplicated Endothelial Keratoplasty/**Invited talks; **Outcomes of Descemet Stripping Only Supplemented with a Topical Rho Kinase Inhibitor in Fuchs Endothelial Corneal Dystrophy**/Free paper (accepted abstract)
10th EUCornea Congress, Paris, France

2019 **Current Status of Descemet Stripping Only for Fuchs Dystrophy**/Invited talk
Netherlands Institute for Innovative Ocular Surgery Cornea Evening, Paris, France

2020 **DSO Tips and Tricks**/Invited talk
Intraocular Implant & Refractive Society, India (virtual)

2020 **Optimizing Success with Descemet Stripping Only**/Invited talk
Netherlands Institute for Innovative Ocular Surgery Cornea Evening (virtual)

2020 **Update on Descemet Stripping**/Invited talk
Intraocular Implant & Refractive Society Annual Meeting, India (virtual)

2020 **Strip and Rho: Update on Descemet Stripping**/Invited talk
Transplant Innovations 2020 (virtual)

2021 **Innovation in Ophthalmology: The Evolution of Corneal Surgery**/Keynote address
International Master Class, IFocus Online Postgraduate Program in Ophthalmology, India (virtual)

2021 **Descemet Stripping Only: Current State of the Art**/Keynote address
Wills Eye Hospital/University of Toronto Cornea Surgery Video Rounds (virtual)

2021 **Descemet Stripping Only in the Management of Fuchs Dystrophy**/Invited talk
All India Ophthalmologic Society International Ophthalmic Conclave (virtual)

2021 **Rethinking Fuchs Dystrophy in the Era of Successful Descemet Stripping/**Invited talk
LXIV Curso de Formacion y Perfeccionamiento de Oftalomologos, Santiago, Chile (virtual)

2021 **Fuchs Dystrophy: Past, Present and Future**/Plenary lecture
7th Asia Cornea Society Biennial Meeting, Osaka, Japan (virtual)

2021 **Much ado about corneal endothelial cells?**/Expert Round Table Faculty
3rd Netherlands Institute for Innovative Ocular Surgery Cornea Evening (virtual)

2021	**Pediatric herpetic keratitis**/Invited talk All India Ophthalmologic Society 2021 (virtual)
2021	**Herpes Simplex in Children**/Invited talk EUCornea Annual Meeting (virtual)
2021	**Surgical and Pharmaceutical Approaches to Corneal Endothelial Disease**/Panel Co-chair Ophthalmology Futures European Forum 2021 (virtual)

Report of Clinical Activities and Innovations

Current Licensure and Certification

1996-present	Massachusetts Medical License
1997	Board Certified, American Board of Ophthalmology (through 12/31/2007)
2008	Recertified, American Board of Ophthalmology (through 12/31/2017)
2015-2020	Illinois Medical License
2018	Recertified, American Board of Ophthalmology (through 12/31/2027)
2020-present	New York Medical License

Practice Activities

1999-2015	Ambulatory Care	Cornea Service, MEEI	Two to three clinic sessions per week 3 to 4 full day OR sessions per month
2008-2015	Ambulatory Care	Dept of Ophthalmology, Boston Children's Hospital	Three clinic sessions per month Surgeries as needed
2015-2020	Ambulatory Care	Dept of Ophthalmology, University of Chicago	One clinic session per week Surgeries as needed
2020-present	Ambulatory Care	Dept of Ophthalmology NYU Langone Health	One to two clinic sessions per week Surgeries as needed
2021-present	Ambulatory Care	Bellevue Hospital Ophthalmology	Staff resident cornea clinic monthly

Clinical Innovations

MEEI, 2006-2007	Determined and described optimal surgical technique for placement of the implantable miniature telescope to avoid damage to the corneal endothelium. Paper published in Archives of Ophthalmology, findings presented at multiple meeting regionally, nationally and internationally.
MEEI, 2008-2009	Determined and described optimal surgical technique for management of cataract after Boston KPro placement and management of the crystalline lens during KPro placement. These techniques have been published in Cornea and British Journal of Ophthalmology and I have been invited to discuss these techniques regionally, nationally and internationally.
MEEI, 2006-2009	Identified outbreaks of fungal and Acanthamoeba keratitis, determined risk factors for infection to raise awareness and improve early detection of these infections. Findings published in Cornea. I have spoken about this topic regionally and nationally.
MEEI, 2009-2010	In collaboration with MEEI pathology service, determined immunohistochemical characteristics of benign and malignant pigmented conjunctival lesions to aid in diagnosis. I provided the patients and the clinical

	correlation for the pathology findings. Findings published in Archives of Ophthalmology and I have spoken about these advances regionally, nationally and internationally.
MEEI, 2010-2015	In collaboration with MEEI pathology service, determined histopathology of retroprosthetic membranes following Boston KPro placement and used these findings to modify KPro design to reduce this complication. I provided the patients and the clinical correlation for the pathology findings. Findings published in Archives of Ophthalmology and I have spoken about these advances regionally, nationally and internationally. Pioneered use of oversized keratoprosthesis backplates to reduce incidence of retroprosthetic membranes.
MEEI and Boston Children's Hospital, 2008-2015	Pioneered the use of systemic acyclovir for children with herpes simplex of the anterior segment. Reported findings at the 2011 AAO meeting and published the largest series of pediatric HSV in Ophthalmology in 2012.
MEEI, 2012-2015	Spearheaded first large-scale clinical use of corneal graft tissue for DSEK pre-loaded into a commercially available insertion device. Optimized surgical technique, determined outcomes.
MEEI, 2014-2015	Successfully demonstrated stripping of Descemet's membrane (Descemet stripping only =DSO) during cataract surgery as a treatment for Fuchs dystrophy (not requiring donor endothelium)
U Chicago, 2015-2020	Advanced work with Descemet stripping only (DSO), planned multi-national, multi-center phase II trial of ripasudil, a topical Rho kinase inhibitor, to facilitate corneal clearance after DSO

Report of Education of Patients and Service to the Community

Activities

Those presentations below sponsored by outside entities are so noted and the sponsor is identified.

2002	**Fuchs' Corneal Dystrophy: Past, Present, Future**/Invited speaker MEEI Annual Meeting for Infirmary trustees, physicians, administrative leadership, and hospital staff
2007	**The IMT: New Hope for End-Stage Macular Degeneration**/Invited speaker MEEI Annual Meeting for Infirmary trustees, physicians, administrative leadership, and hospital staff
2007	**New Advances in Corneal Surgery**/Invited speaker MEEI Leadership Group Monthly Meeting for Infirmary department managers and administrative leadership
2009	**Implantable Miniature Telescope: New Hope for End-stage Macular Degeneration**/Invited speaker MEEI Patient Educational Symposium on Macular Degeneration, Boston, MA
2010	**Status of the Implantable Telescope**/Invited speaker Lions Club of Massachusetts Regional Meeting, Woburn, MA
2010	**Medicare Reimbursement for the Implantable Miniature Telescope**/Invited speaker Center for Medicare and Medicaid Services, Baltimore, MD (sponsor: VisonCare, Inc)
2011	**CPT Coding for the Implantable Miniature Telescope**/Invited speaker American Medical Association CPT Editorial Panel, Chicago, IL (sponsor: VisionCare, Inc)
2020	**Corneal Safety with Belamaf, a Novel Antibody-Drug Conjugate for Refractory Multiple Myeloma**/Invited speaker FDA Oncology Drug Advisory Committee (virtual) (sponsor: Glaxo Smith Kline, Inc)

Educational Material for Patients and the Lay Community

Patient educational material

No educational materials below were sponsored by outside entities

2003	**Controlling your blepharitis**	Author	Patient education handout

Report of Scholarship

Publications:

1. **Colby KA**, Blaustein MP. Inhibition of voltage-gated K channels in synaptosomes by sn-1,2-dioctanoylglycerol, an activator of protein kinase C. J Neurosci1988; **8**:4685-4692.

2. **Colby KA**, Thompson TL, Patrick RL. Tyrosine hydroxylase phosphorylation in rat brain striatal synaptosomes. Brain Res 1989;**478**:103-111.

3. Thompson TL, **Colby KA**, Patrick RL. Activation of striatal tyrosine hydroxylase by *in vivo* electrical stimulation: Comparison with cyclic AMP-mediated activation. Neurochem Res 1990;**15**:1159-1166.

4. Kuroki M, Voest EE, Amano S, Beerepoot LV, Takashma S, Tolentino M, Kim RY, Rohan RM, **Colby KA**, Yeo KT, Adamis AP. Reactive oxygen intermediates increase vascular endothelial growth factor expression *in vitro* and *in vivo.* J Clin Invest 1996;**98**:1667-1675.

5. **Colby KA**, Dohlman CH. Vernal keratoconjunctivitis. International Ophthal Clinics 1996; **36**:15-20.

6. Coday M, **Colby KA**. Nailing down the diagnosis: Imaging intraocular foreign bodies. Arch Ophthalmol 1999;**117**:548-9.

7. **Colby KA**. Management of open globe injuries. International Ophthal Clinics 1999; **39**:59-69.

8**. Colby, KA**. Now We Number 33: Women in Ophthalmology at the Massachusetts Eye and Ear Infirmary in 2002. Arch Ophthalmol 2002;**120**:1738-1740.

9. Borboli S, **Colby KA**. Mechanisms of disease: Fuchs endothelial dystrophy. Ophthalmol Clinics North America 2002;**15**:1-9.

10. Mian S, Azar DT, **Colby KA**. Management of traumatic cataracts. International Ophthal Clinics. 2002;**2**(3):23-31.

11. Johns DR, **Colby KA**. Treatment of Leber's hereditary optic neuropathy: Theory to practice. Seminars in Ophthalmol. 2002;**17**:33-38.

12. Perez VL, **Colby KA**, Azar DT. Epithelial ingrowth in the flap-graft interface after microkeratome-assisted posterior penetrating keratoplasty. J Cataract Refract Surg 2003;**29**:2225-2228.

13. Yeh PC, Azar DT, **Colby K**. Selective endothelial transplantation: Novel surgical techniques for the treatment of endothelial dysfunction. International Ophthal Clinics 2004, **44**(1):51-66.

14. **Colby KA**. Corneal endothelial dystrophies. Contemp Ophthalmol 2004; **3**: 1-8.

15. **Colby KA**, Nagel DS. Conjunctival melanoma arising from diffuse primary acquired melanosis in a young black woman. Cornea 2005; 24:352-355.

16. Jurkunas U, **Colby K**. Evaluation of the corneal endothelium. Techniques Ophthalmol 2005; **3**(1):19-26.

17. Tsai P, **Colby KA**. Conjunctival lymphomas. Seminars in Ophthalmol 2005,**20**:239-246.

18. Poothullil A, **Colby KA**. Medical therapies for ocular surface tumors. Seminars in Ophthalmol 2006; **21**:161-169.

19. Dagher M, **Colby KA**. Fungal keratitis. Contemp Ophthalmol 2006; **5**:1-9.

20. Thomas JK, **Colby KA**. Ocular surface neoplasia. Contemp Ophthalmol 2007;**6**:1-8.

21. Jurkunas U, Langston DP, **Colby K**. Use of voriconazole in fungal keratitis. International Ophthalmol Clinics 2007;**47**:47-59.

22. Ciralsky J, **Colby KA**. Congenital corneal opacities: A review with a focus on genetics. Seminars in Ophthalmol 2007;**22**:241-246.

23. Sugiura M, **Colby KA**, Mihm MC, Zembowicz A. Low and high-risk histological features in conjunctival primary acquired melanosis with atypia: Clinicopathological analysis of 29 cases. Amer J Surg Path 2007;**31**:185-192.

24. **Colby KA**, Chang DF, Stulting RD, Lane SS. Surgical placement of an optical prosthetic device for end-stage macular degeneration: The implantable miniature telescope. Arch Ophthalmol 2007;**125**:118-1121.

25. Poulaki V, **Colby KA**. Genetics of anterior and stromal corneal dystrophies. Seminars in Ophthalmol 2008;**23**:9-17.

26. Harissi-Dagher M, **Colby KA**. Anterior segment dysgenesis: Peters' anomaly and sclerocornea. Int Ophthalmol Clin 2008;**48**:35-42.

27. Chan AS, **Colby KA**. Update on pediatric keratoplasty. Int Ophthalmol Clin 2008;**48**:25-33.

28. **Colby KA**. Changing times for pediatric keratoplasty. J Am Acad Pediatric Ophthalmol Strabismus 2008;**12:**223-224.

29. Harissi-Dagher M, **Colby KA**. Cataract extraction following implantation of a type 1 Boston keratoprosthesis. Cornea 2008; **27**:220-222.

30. Thiagalingam S, Johnson MM, **Colby KA**, Zembowicz A. Juvenile conjunctival nevus: Clinicopathological analysis of 33 cases. Amer J Surg Path 2008;**32**:399-406.

31. Asbell PA, **Colby KA**, Deng S, McDonnell P, Meisler DM, Raizman MB, Sheppard JD Jr, Sahm DF. Ocular TRUST: Nationwide antimicrobial susceptibility patterns in ocular isolates. Am J Ophthalmol 2008;**145**:951-958

32. Jurkunas UV, Bitar MS, Rawe I, Harris DL, **Colby K**, Joyce NC. Increased clusterin expression in Fuchs endothelial dystrophy. Invest Ophthalmol Vis Sci 2008;**49**:2946-55.

33. Jurkunas UV, Rawe I, Bitar MS, Zhu C, Harris DL, **Colby K,** Joyce NC. Decreased expression of peroxiredoxins in Fuchs endothelial dystrophy. Invest Ophthalmol Vis Sci 2008;**49**:2956-63.

34. Ciralsky J, **Colby KA**. Conjunctival melanomas: Can the cancer stem cell hypothesis be applied? Semin Ophthalmol 2009;**24**:161-165.

35. Todani A, Gupta P, **Colby K**. Type I Boston keratoprosthesis with cataract extraction and intraocular lens placement for visual rehabilitation of herpes zoster ophthalmicus: the "KPro Triple". Br J Ophthalmol 2009; **93**:119 (on-line surgical video).

36. Mandell KJ, **Colby KA**. Penetrating keratoplasty for invasive fungal keratitis resulting from a thorn injury involving *Phomopsis* species. Cornea 2009;**28**:1167-69.

37. Jurkunas UV, Behlau I, **Colby KA.** Fungal keratitis: Changing pathogens and risk factors. Cornea 2009;**28**:638-43.

38. Jakobiec FA, **Colby KA**, Bajart AM, Saragas SJ, Moulin A. Immunohistochemical studies of atypical conjunctival melanocytic nevi. Arch Ophthalmol 2009;**127**:970-980.

39. Thiagalingam S, Jakobiec FA, Chen T, Michaud N, **Colby KA**, Walton DS. Corneal anomalies in newborn primary congenital glaucoma. J Pediatr Ophthalmol Strabismus 2009;**46**:241-4.

40. Kurbanyan K, **Colby KA**. Cataract and refractive surgery in herpetic eye disease. International Ophthalmol Clin 2010;**50**:13-24.

41. Traish A, **Colby KA**. Approaching cataract surgery in patients with Fuchs endothelial dystrophy. International Ophthalmol Clin 2010;**50**:1-11.

42. Klufas MA, **Colby KA.** The Boston keratoprosthesis. International Ophthalmol Clin 2010;**50**:161-75.

43. Nallasamy S, **Colby K**. Keratoprosthesis: procedure of choice for corneal opacities in children? Semin Ophthalmol 2010;**25**:244-8.

44. Keating A, Pineda R, **Colby K**. Corneal cross linking for keratoconus. Semin Ophthalmol 2010;**25**:249-55

45. Stacy RC, Kenyon KR, Jakobiec FA, **Colby KA**. Conjunctival melanoma arising from primary acquired melanosis in a patient with neurofibromatosis type I. Cornea 2010;**29**:232-4.

46. Jakobiec FA, Bhat P, **Colby KA**. Immunohistochemical studies of conjunctival nevi and melanomas. Arch Ophthalmol 2010;**128**:174-83.

47. Tanhehco TY, **Colby K**. The clinical experience of *Acanthamoeba* keratitis at a tertiary-care eye hospital. Cornea 2010;**29**:1005-10.

48. Gower EW, Keay LJ, Oechsler RA, Iovieno A, Alfonso EC, Jones DB, **Colby K**, Tuli SS, Patel SR, Lee SM, Irvine J, Stulting RD, Mauger TF, Schein OD. Trends in fungal keratitis in the United States, 2001 to 2007.Ophthalmology 2010;**117**:2263-7.

49. Grover S, Jacobs DS, **Colby KA**. Boston ocular surface prosthesis for persistent epitheliopathy following treatment of conjunctival melanoma. Cornea 2010;**29**:459-61.

50. Jakobiec FA, Mehta M, Greenstein SH, **Colby K**. The white caruncle: Sign of a keratinous cyst arising from a sebaceous gland duct. Cornea 2010;**29**:453-5.

51. Kanoff JM, **Colby K**, Jakobiec FA. Incipient corneoscleral xanthogranuloma with S-100 positivity in a teenager. Cornea 2010; **29**:688-90.

52. Jakobiec FA, Sandhu H, Bhat P, **Colby K**. Bilateral conjunctival melanocytic nevi of simultaneous onset simulating conjunctivitis in a child. Cornea 2010;**29**:937-40.

53. Jakobiec FA, Stacy RC, **Colby K**. Pigmented apocrine hidrocystoma of the caruncle. Cornea 2010;**29**:1320-2.

54. Kanoff JM, **Colby K**. Pigmented deposits on a Boston keratoprosthesis from topical ibopamine. Cornea 2010;**29**:1069-71.

55. **Colby K**, Bhat P, Novais G, Jakobiec FA. Recurrent primary acquired melanosis with atypia involving a clear corneal phacoemulsification wound. Cornea 2011;**30**:114-116.

56. Tanhehco TY, Stacy RC, Mendoza L, Durand ML, Jakobiec FA, **Colby KA.** *Pythium insidiosum* keratitis in Israel. Eye and Contact Lens, 2011;**37**:96-8.

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64. Vora GK, **Colby KA**. Management of glaucoma following Boston keratoprosthesis. European Ophthal Rev 2012 **6**:214-7.

65. Prescott CR, **Colby KA**. Imaging of pediatric corneal diseases. Semin Ophthalmol 2012;**27**(5-6):117-20.

66. **Colby K**. Medical Treatment of Fuchs Dystrophy in our Lifetime? Invest Ophthalmol Vis Sci. 2013;**54(**4):2503.

67. Lee HJ, **Colby KA**. A review of the clinical and genetic aspects of aniridia. Semin Ophthalmol. 2013;**28**(5-6):306-12.

68. Jakobiec FA, Mendoza PR, **Colby KA**.Clinicopathologic and Immunohistochemical Studies of Conjunctival Large Cell Acanthoma, Epidermoid Dysplasia, and Squamous Papilloma. Am J Ophthalmol. 2013;**156**(4):830-846.

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70. Cruzat A, Shukla A, Dohlman CH, **Colby K**. Wound Anatomy After Type 1 Boston KPro Using Oversized Back Plates. Cornea. 2013;**32**(13);1531-6.

71. Davies E, **Colby K**. Controversies in Corneal Collagen Cross-linking. Int Ophthalmol Clin. 2015 Fall;**55**:1-11

72. Grassi CM, Crnej A, Paschalis EI, **Colby KA**, Dohlman CH, Chodosh J.Idiopathic vitritis in the setting of Boston keratoprosthesis. Cornea. 2015;**34(**2):165-70.

73. Chang HY, Luo ZK, Chodosh J, Dohlman CH, **Colby KA**. Primary implantation of type I Boston keratoprosthesis in nonautoimmune corneal diseases. Cornea. 2015;**34(**3):264-70.

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