

Curriculum Vitae

NAME: Dimitri T. Azar, MD, MBA

ACADEMIC RANK: Dean College of Medicine
B.A. Field Endowed Chair of Ophthalmologic Research
Distinguished Professor of Ophthalmology, Bioengineering, &
Pharmacology

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University of Illinois at Chicago
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EDUCATION/POST DOCTORAL TRAINING

1979 B.S. American University of Beirut, Lebanon
1983 M.D. American University of Beirut, Lebanon
1982-1983 Internal Medicine, American University Medical Center, Beirut, Lebanon
1983-1986 Ophthalmology, American University Medical Center, Beirut, Lebanon
1987-1990 Resident in Ophthalmology, Massachusetts Eye and Ear Infirmary/Harvard Medical School, Boston, MA.
1990-1991 Chief Resident in Ophthalmology, Massachusetts Eye and Ear Infirmary Harvard Medical School, Boston, MA.
2003 Honorary MA, Harvard University.
2009-2011 Executive MBA with High Honors, University of Chicago Booth School of Business, Chicago, IL.

CLINICAL AND RESEARCH FELLOWSHIPS/ EDUCATION COURSES

- 1986-1991 Research Fellowship in Cornea-Morphology, Eye Research Institute Harvard Medical School
- 1986-1988 Clinical Fellowship in Cornea and External Eye Diseases, Massachusetts Eye and Ear Infirmary/Harvard Medical School.
- 2008-2010 Department of Medical Education, UIC College of Medicine.
Courses taken: Leadership in Health Professions Education (MHPE 504); Instruction and Assessment (MHPE 502); Introduction to Health Professions Education (MHPE 505); Curriculum and Evaluation (MHPE 503); Research Design (MHPE 534); Independent Study Research (MHPE 596)

LICENSURE AND CERTIFICATION

- 2006- State of Illinois
- 1991 American Board of Ophthalmology
- 1992-2014 Fellow of the American Academy of Ophthalmology
- 1991-1997 State of Maryland, Board of Physician Quality Assurance
- 1987-2006 Commonwealth of Massachusetts, Board of Registration in Medicine
- 1985 FLEX, New York, components I and II
- 1982 ECFMG
- 1981-1982 National Board of Medical Examiners, parts I and II

ACADEMIC APPOINTMENTS

- 1990-1991 Instructor in Ophthalmology, Harvard Medical School
- 1991-1996 Assistant Professor of Ophthalmology, The Johns Hopkins University
- 1996 Associate Professor of Ophthalmology, The Johns Hopkins University
- 1996-2003 Associate Professor of Ophthalmology, Harvard Medical School
- 2003-2006 Professor of Ophthalmology, Harvard Medical School
- 1998-2000 Professor Associé, Rothschild Foundation, University of Paris
- 1996-1998 Associate Clinical Scientist, Schepens Eye Research Institute, Harvard Medical School
- 1999-2003 Associate Scientist, Schepens Eye Research Institute, Harvard Medical School

2003-2006 Senior Scientist, Schepens Eye Research Institute, Harvard Medical School
 2006-2011 Professor and Head, Department of Ophthalmology and Visual Sciences,
 University of Illinois at Chicago, Chicago, IL
 2011 Interim Dean of the College of Medicine, University of Illinois at Chicago,
 Chicago, IL
 12/2011- Dean of the College of Medicine, University of Illinois at Chicago, Chicago, IL

HOSPITAL & LABORATORY APPOINTMENTS

1990-1991 Associate Chief of Ophthalmology for Residency Affairs, Massachusetts Eye and Ear
 Infirmary, Boston
 1990-1991 Assistant Director of Residency Training, Massachusetts Eye and Ear Infirmary, Boston
 1992-1996 Director, Keratorefractive Service, The Wilmer Institute, Johns Hopkins University,
 Baltimore
 1991-1996 Director, Corneal Wound Healing Laboratory, Refractive Surgery, Johns Hopkins
 University
 1996-2006 Corneal and Ocular Surface Works in Progress, Schepens Eye Research Institute,
 Boston
 1996-2004 Director, Contact Lens Service, Massachusetts Eye and Ear Infirmary, Boston
 1996-2006 Director, Corneal and Refractive Surgery Services, Massachusetts Eye and Ear
 Infirmary, Boston
 1999-2006 Cornea/External Disease Fellowship Training Program (combined program)
 2003-2006 Surgeon, Massachusetts Eye and Ear Infirmary
 2006- Physician/Surgeon, University of Illinois at Chicago, Chicago, IL.

AWARDS & HONORS

- 1991 Teacher of the Year Award, Massachusetts Eye and Ear Infirmary.
- 1993 Teacher of the Year Award, The Wilmer Institute, Johns Hopkins University
- 1996 Resident Teaching Recognition Award, The Wilmer Institute Johns Hopkins University.
- 1998 American Academy of Ophthalmology Honor Award
- 1994-1996 Top Doctor, Baltimore Magazine, Baltimore, MD.
- 1996 Voted among Top 10 U.S. Refractive Surgeons by Ophthalmology Times.
- 1999, 2001 Top Doctor, Ophthalmology/ Refractive Surgery, *Boston Magazine* (Castle Connolly regional database).
- 2003 Top Doctor, Ophthalmology, *Boston Magazine* (Castle Connolly regional database).
- 2004 American Academy of Ophthalmology Senior Achievement Award
- 2005 Top 50 Opinion Leaders; Cataract & Refractive Surgery Today
- 2005 Top 10 Ophthalmologists in Greater Boston area (Boston Herald Supplement)
- 2007 Alcon Research Institute Award
- 2005-2010 Best Doctor in America® (www.bestdoctors.com)
- 2006-2014 America's Top Doctor (Castle Connolly national database)
- 2008-2010 Top Doctor, Ophthalmology, *Chicago Magazine* (Castle Connolly).
- 2008 Maurice F. Rabb, MD/Jose F. Pulido, MD Medical Student Award, University of Illinois at Chicago
- 2009 Lans Distinguished Award, International Society of Refractive Surgery, American Academy of Ophthalmology
- 2009 University Scholar Award, University of Illinois at Chicago, Chicago, IL
- 2010 Silver Fellow, ARVO. Association of Research in Vision and Ophthalmology, Outstanding service to the eye and vision community
- 2011 Beta Gamma Sigma Honor Society, University of Chicago Booth School of Business
- 2012 Distinguished Professor, College of Medicine, University of Illinois at Chicago, Chicago, IL
- 2013 Jose Barraquer Award, International Society of Refractive Surgery, American Academy of Ophthalmology
- 2014 Gold Fellow, ARVO. Association of Research in Vision and Ophthalmology, Outstanding service to the eye and vision community

Named Lectures: William N. Williford Distinguished Visiting Professorship, University of Tennessee, September, 2007.
Bodenheimer Memorial Lecture, Johns Hopkins, December, 2007.
Annual Everett L. Goar Lecture, University of Texas. January, 2008.
Allergan Irving Leopold Lecture, October, 2008.
Gold Medal Lecturer, Saudi Ophthalmological Society. Riyadh, Saudi Arabia. March, 2009.
Victor T. Curtin Visiting Professor, Bascom Palmer Eye Institute. February, 2008.
Mariana Mead Lecture and Albert Jakobiec Lecture MEEI, Harvard Medical School. June 2010.
Jasim M. AL Bahar Memorial Lecture, Kuwait Cornea Symposium. April 2011.
Crano Lecture, University of Pittsburgh Medical Center. September 2011.
Paton Medal Lecture, Baylor College of Medicine. February 2012.
Gissur Petursson, M.D. Distinguished Lecture, University of Arkansas Medical Sciences, Jones Eye Institute, Arkansas USA. June 8, 2012.
Whitney G. Sampson Lecture, Contact Lens Association of Ophthalmologists at the American Academy of Ophthalmology, Chicago, IL. November 11, 2012.
Flaum Eye Institute's Distinguished Visiting Professor, University of Rochester. Rochester, NY, USA, February 16, 2013.
Claes H. Dohlman Conference Address, 7th International Conference on the Tear Film and Ocular Surface: Basic Science and Clinical Relevance. Taormina, Italy. September 20, 2013.
Jose Barraquer Lecture, American Academy of Ophthalmology: International Society for Refractive Surgery (ISRS). New Orleans, November 18, 2013.

BOARD OF DIRECTORS/TRUSTEES

Current

- 2012- Novartis International AG. Member, Board of Directors
- Member Audit and Compliance Committee (02/2013-)
 - Member Research and Development Committee (02/2014-)
- 2007- Chicago Ophthalmological Society. Member, Board of Trustees
- Secretary (5/2011-5/2012)
 - Treasurer (5/2012-5/2013)
 - Vice President (5/2013-5/2014)
 - President (5/2014-5/2015)
- 2013- Chicago Medical Society (CMS). Member, Board of Trustees
- Treasurer (9/2014-)
- 2013- Tear Film and Ocular Surface Society (TFOS). Member, Board of Directors
- 2011- Association for Research in Vision & Ophthalmology. Member, Board of Trustees
- Member Finance Committee and Compensation Subcommittee (05/2011-05/2016)
 - Vice President (05/2014-05/2015)
- 2011- Wolcott, Wood and Taylor, Inc., *ex officio* Chair, Board of Directors

Past

- 2008-2012 Association of University Professors of Ophthalmology. Member, Board of Trustees

MAJOR ADMINISTRATIVE RESPONSIBILITIES/ACCOMPLISHMENTS

Refractive Surgery Service at the Wilmer Ophthalmological Institute/Johns Hopkins University

- 1992 Established Refractive Surgical Service at Johns Hopkins Hospital
- 1993 Established clinical and teaching program and Performed Incisional (Radial) Keratotomy procedure at the Wilmer Institute, Johns Hopkins
- 1994 Established clinical and teaching program and performed first microkeratome (ALK) surgery at the Wilmer Institute, Johns Hopkins
- 1996 Established program to perform PRK using FDA approved Summit laser treatment (GBMC)
- 1996 Performed first microkeratome-assist PK endothelial transplantation surgery
- 1996 Consultant, assisted VISX team in obtaining first FDA approval for PRK

Corneal and Refractive Surgery Services at the Massachusetts Eye and Ear Infirmary

- 1996-2003 Recruitment of Drs Reza Dana, Kathryn Colby and Roberto Pineda to Cornea Service; Recruitment of Drs Roberto Pineda, Sonia Yoo (now at Bascom Palmer), Sandeep Jain, Amy Scally and Jill Beyer to Refractive Surgery Service; Reorganization of the Contact Lens Service and recruitment of Drs Sheri Morneault and Jill Beyer (current director) to Contact Lens Service.
- 1996-2005 Reorganized Corneal and Refractive Surgery Services

Fellowship training programs (Clinical and Research fellowships)

- 1999-2004 Established a program at the Massachusetts Eye and Ear Foundation to fund new technology for the Corneal and Refractive Surgery Services
- 1999-2005 Reorganized open-access laser center at Mass Eye and Ear Infirmary
- 1996 Expanded clinical and teaching program on Summit Apex Plus PRK (FDA-approved treatment program)
- 1996 Established clinical and teaching program and performed first LASIK surgery at Massachusetts Eye and Ear Infirmary
- 1996 Performed first LASEK procedure worldwide (assisted by Dr. J. C. Abad)
- 1997 Established clinical and teaching program and introduced FDA-approved VISX laser surgery for myopic astigmatism at Massachusetts Eye and Ear Infirmary
- 1998 Introduced Summit Apex Plus laser for hyperopia and hyperopic astigmatism
- 1999 Introduced Hansatome and Moria Rotational Microkeratomes
- 2000 Expanded microkeratome (MK) teaching and introduced SKBM horizontal MKs
- 2001 Introduced ICRS (Intacs) surgery to Massachusetts Eye and Ear Infirmary Refractive Surgery Service
- 2002-2003 Introduced 3 aberrometers (Zywave, WaveScan, and Ladar Wave), and 3 wavefront-guided lasers (VISX S4, Ladarwave and Zyoptics) to Refractive Surgery Service
- 2002 Introduced Refractec CK surgery to Massachusetts Eye and Ear Infirmary Refractive Surgery Service
- 2004 Introduced Intralase femtosecond laser to Massachusetts Eye and Ear Infirmary Refractive Surgery Service
- 2005 Introduced Accommodating (Eyeonics) and Phakic (Verisyse) IOLs to Massachusetts Eye and Ear Infirmary

Corneal and Refractive Surgery Service at the University of Illinois at Chicago

- 2006 Initiated femtosecond surgery, CK surgery and Verisyse surgery and introduced multifocal IOL and toric IOL surgery at UIC
- 2007 Performed first Keratoprosthesis surgery at the University of Illinois at Chicago
- 2008 Introduced IEK (intralase-enabled keratoplasty) to the University of Illinois

2009 Introduced NCI approach of DSAEK corneal surgery at UIC
Department of Ophthalmology and Visual Sciences at the University of Illinois at Chicago

2006 Established new satellite office, Millennium Park, to expand clinical services

2006-2008 Renovated Retinal Service

2010 Expanded and renovated Cornea and Contact Lens Service

2007 Established KEIPO Program: Resident exchange program with KEIO University in Tokyo

2006- Established three faculty committees: Academic Advancement, Fellowship Oversight, VA Committee

2006- Established operations committees: Finance Committee, Strategic Vision Committee

2011- *College of Medicine University of Illinois at Chicago*

2014- White paper: COM of the Future (medicine.uic.edu/whitepaper/)

MAJOR COMMITTEE ASSIGNMENTS

The Massachusetts Eye and Ear Infirmary/Harvard Medical School

1989-1991 Residency Steering Committee

1990-1991 Eye Department Executive Committee

1990-1991 Residency Selection Committee

1990-1991 Quality Assurance Committee

1996-2002 Residency Steering Committee

1996-2006 Associate Chief of Ophthalmology & Director of First Floor Committee

1996-2001 Search Committee (Glaucoma, Plastics, Retina, General eye Service)

1997-1999 Joint Operating Room Committee

1998-2006 Practice Advisory Committee

2000-2001 Eye Service Executive Committee

2002-2004 Joint Operating Room Committee

2003-2006 Executive Committee of the Harvard Medical School Department of Ophthalmology

The Schepens Eye Research Institute/Harvard Medical School

1996-2006 Clinical Staff

1997-2000 Institutional Review Board Committee

- 1998-2000 Long Term Strategic Planning (Leadership Issue)
- 2000-2006 Fellowship Training Program and Committee

The University of Illinois College of Medicine-Chicago

- 2006- MSP Board of Directors
- 2007 Chair, Search Committee, Head of Department of Psychiatry
- 2008 Member, College of Medicine Chicago Executive Committee *and* College of Medicine Executive Committee
- 2009- Advisory Board, Academy for Excellence in Teaching
- 2009 Member, Search Committee, COM Chief Development Officer
- 2010 Selection Committee, Chicago COM Excellence in Teaching Award
- 2008-2010 Panel Organizer, “Specialties Requiring Early Preparation and High Academic Performance,” M1 Orientation.
- 2011 Search Committee for Dean of the College of Business Administration

The UIC Department of Ophthalmology and Visual Sciences, Illinois Eye and Ear Infirmary

- 2006-2011 Department Chair
- 2006 Residency Steering Committee
- 2006-2011 Personnel Committee Chair
- 2006-2011 Finance Committee Chair
- 2006-2011 Chiefs of Service Committee
- 2006-2011 Research Committee member
- 2007-2011 Strategic Committee Chair

The UIC College of Medicine

- 2011- Executive Dean, University of Illinois College of Medicine
- 2011- Chair, College Executive Committee
- 2011- Chair, Chicago Executive Committee
- 2011- Chair, College Admissions Committee
- 2012- Learning Center Project Committee
- 2012 Search Committee for Head of the Department of Obstetrics and Gynecology
- 2012 Search Committee for Head of the Department of Ophthalmology and Visual Sciences

2012-2013 Committee for Five-Year Review of Head of the Department of Anatomy and Cell Biology

2012-2013 Committee for Five-Year Review of Head of the Department of Neurosurgery

2013 Search Committee for Head of the Department of Family Medicine

2013 Search Committee for Head of the Department of Neurology and Rehabilitation

2013-2014 Search Committee for Regional Dean, UI College of Medicine at Urbana

2013-2014 Search Committee for Regional Dean, UI College of Medicine at Rockford

2013-2014 Committee for Five-Year Review of Head of the Department of Biochemistry and Molecular Genetics

2013-2014 Committee for Five-Year Review of Head of the Department of Orthopaedics

2013-2014 Search Committee for Head of the Department of Radiology

2013- Committee for Five-Year Review of Head of the Department of Surgery

2013- Committee for Five-Year Review of Head of the Department of Pediatrics

2013- Committee for Five-Year Review of Head of the Department of Dermatology

2013- Committee for Five-Year Review of Head of the Department of Urology

2014 Search Committee for Head of the Department of Ophthalmology and Visual Sciences

2014- Search Committee for Head of the Department of Anatomy and Cell Biology

2014- Search Committee for Head of the Department of Microbiology and Immunology

2014- Search Committee for Senior Associate Dean for Educational Affairs

2014- Committee for Five-Year Review of Head of the Department of Physiology and Biophysics

University of Illinois at Chicago

2011- Health Sciences Deans Council

2012- 2014 Faculty Senate

MEMBERSHIPS, OFFICES & COMMITTEE ASSIGNMENTS
IN PROFESSIONAL SOCIETIES

1986- Association for Research in Vision and Ophthalmology

1986- American Academy of Ophthalmology

1987-1992 American Medical Association

1990-1992 Massachusetts Medical Society

1992- International Society of Refractive Keratoplasty

1990 American Society of Cataract and Refractive Surgery

1994-1995 SPIE-International Society of Optical Engineering, Massachusetts Eye and Ear Alumni Association

1994- New England Ophthalmological Society

1994- *The Johns Hopkins Wilmer Alumni Association*
VisA study section (small grant ad hoc committees)

1995- National Eye Institute/National Institutes of Health

1992-1996 Assistant Editor, Journal of Refractive Surgery

1995- Congress of Researchers in Surgery & Technology

1997- International Council-ISRS

American Academy of Ophthalmology-Committee for Ophthalmic Technology Development

Cornea Program Committee, Association of Research in Vision and Ophthalmology

Editorial Board, Hong Kong Journal of Ophthalmology

2000 Advisory Council, Operation Eye Rescue

2001 Section Editor (Cornea); Current Opinion in Ophthalmology

2001 Vis A Study Section, National Eye Institute (ad hoc committee)

2001-2004 Editorial Board, Review of Refractive Surgery

2001-2005 Chief Editor, MEJO

2001 Tissue Banks International National Medical & Scientific Advisory Committee

2001 Medical Advisory Board, Tissue Banks International

2002 Editorial Board, Contemporary Ophthalmology

2002 American Academy of Ophthalmology: Member of Basic and Clinical Science Course Sec. 14

1996-2003 Founder: Congress of Researchers in Eye Surgery and Technology Society.

2001-2005 Founding Member: Claes Dohlman Cornea Society.

2001-2005 Founding Member: Dohlman Fellowship Award.

2006 ISRS – USA Representative

2006- Chicago Ophthalmological Society

2006 LIERI Lions Club

2006 Alumni Advisory Council, UIC Fight for Sight

2006 Eye Transplantation Foundation

2006-2008 International Society for Refractive Surgery, USA Representative

2007-2014 Alcon Research Institute

2007- American Ophthalmological Society
2007- Board, Chicago Ophthalmological Society
2008-2009 Professional Advisory Committee, Chicago Lighthouse for People who are Blind and Visually Impaired
2008-2012 Board of Trustees, Association of University Professors of Ophthalmology
2008-2009 Ad Hoc Committee, Research to Prevent Blindness, Inc.
2009-2011 Editorial Board, *Investigative Ophthalmology and Visual Science*
2009 Member, PhenX Ocular Working Group (National Eye Institute and RTI International)
2011-2014 Alcon Research Award selection Committee
2011- Board of Trustees, Association for Research in Vision and Ophthalmology
2012- Board of Trustees, Novartis International AG, Basel, Switzerland
2013- Board of Trustees, Chicago Medical Society
2014 President, Chicago Ophthalmological Society
2014 Vice President elect, Association for Research in Vision and Ophthalmology

PART II
CLINICAL STUDIES
(Co-Investigator)

- 1997 Massachusetts Eye and Ear LASIK Study
 The Massachusetts Eye and Ear Infirmery Hyphema Study
 Refractive Status and Vision Profile (RSVP) Questionnaire
 National Eye Institute Refractive Error Questionnaire
 Massachusetts Eye and Ear Infirmery Fixation Speculum Study
 The Massachusetts Eye and Ear Infirmery Elevation Based Corneal Topography Study
- 1998 Massachusetts Eye and Ear Infirmery MDX-RA Study
 Urrets-Zavalia Syndrome: A meta-analysis of published case series and a review of
 MEEI cases
 Massachusetts Eye and Ear Infirmery Summit LASIK/High Myopia Non-Randomized
 LASIK Subset
 Massachusetts Eye and Ear Infirmery Hyperopic LASIK Study
 Hyperopic LASIK with Astigmatism with the Emphasis Disc Clinical Investigation
- 1999 Treatment of Non-Healing Corneal Epithelial Defects with Umbilical Cord Serum
 Metalloproteinase Expression in Ocular Pathologic Conditions
 An Evaluation of Topical Zinc Chloride in the Treatment of Viral Conjunctivitis
- 2000 Combined LASIK and ICRS for the Correction of Myopic Refractive Errors
 Evaluation of Effectiveness of a New Cornea Storage Medium
 Incidence of Posterior Vitreous Detachment Following LASIK
 Molecular Genetic Studies of Myopia, Hyperopia and Keratoconus
 1.5% Levofloxacin Bacterial Keratitis Studies
 Identification of Factors That Can Predict Dry Eye Complications of LASIK Surgery
 Investigation of the Role of Human Tears in the Pathogenesis of Acanthamoeba Keratitis
- 2001 Infrared Pupillometry and LASIK Surgery
 Treatment of Keratoconus with Intrastromal Corneal Ring Segments
 Diffuse Lamellar Keratitis: Incidence, Characteristics and Visual Outcomes
 Epithelial Survival after Epithelial Debridement During Photorefractive Keratoectomy
 Prospective Multicenter Clinical Study to Evaluate the Use of the Orbscan II in the
 Calculation of Lens Power for the Model L161U Intraocular Lens in Patients Undergoing
 Routine Cataract Extraction
- 2004 Collagen Cross-linking
 Photochemical Keratodesmos for Closure of Clear Corneal
 Cataract Incisions.

Issued Patents

A. Excimer Laser Sculpting

1. Azar DT, Inventor, The Johns Hopkins University, assignee. Correction of Strabismus by Laser Sculpturing of the Cornea. US 5634919 A. Issued June 3, 1997.

The invention consists of methods and apparatus for laser ablation of the cornea to correct strabismus. The laser beam is controlled by a system of limiting shutters to cut prism lenses and fourier lenses into the cornea. The ablation is to keep scarring to a minimum. (11 Claims)

B. Accommodating Lenses

2. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision Prosthesis. US patent US 6638304 B2. Issued October 28, 2003. Also published as US20030018383 and WO2003007851A1.

A vision prosthesis (smart lens) includes a lens having an index of refraction that varies in response to a focusing stimulus. An actuator in communication with the lens provides the focusing stimulus on the basis of a range estimate from a rangefinder. A controller coupled to the rangefinder and to the actuator causes the actuator to generate a focusing stimulus on the basis of the range estimate. (96 Claims)

3. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision Prosthesis US8216309. Issued Jul 10, 2012. Also published as US20060206205.

An intra-ocular lens system having a variable focal length; and a controller that causes a change in the focal length thereof. (20 Claims).

4. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision Prosthesis US7041133 B1. Issued on May 09, 2006.

A variable-power lens having an index of refraction that varies in response to a focusing stimulus (including spectacles, IOLs, and contact lenses). An actuator in communication with the lens provides the focusing stimulus on the basis of a range estimate from a rangefinder. A controller coupled to the rangefinder and to the actuator causes the actuator to generate a focusing stimulus on the basis of the range estimate. (30 Claims)

C. Artificial muscle-based accommodating lenses

5. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision prosthesis with artificial muscle actuator. US patent US 7261736 B1. Issued August 28, 2007.

A visual prosthesis includes an artificial muscle configured to deform in response to a focusing signal. The artificial muscle is coupled to at least a portion of an optical system for changing a focal point thereof. (10 Claims)

D. Magnetic Contact Lens

6. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision prosthesis orientation. US 7402175 B2 (also published as US20050256570, WO2005112825A2, WO2005112825A3), Issued July 22, 2008.

A method for implanting magnets in the eye to allow for a contact lens (includes an optical element having a surface that is shaped to be positioned near a cornea of an eye, and a magnetic element embedded in the optical element). (4 claims)

7. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision prosthesis orientation US7753952 (also published as US20080249621, WO2005112825B1) Issued on July 13, 2010.

A smart contact lens (vision prosthesis) includes an optical element having a surface that is shaped to be positioned near a cornea of an eye, and a magnetic element embedded in the optical element, which would allow for the correction of astigmatism and higher order aberrations. (16 claims)

E. Extraocular adaptively focusing smart lens

8. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Adaptively focusing extra-ocular vision prostheses US7457434 B2 (also published as US20060224238), Issued November 25, 2008.

An extra-ocular vision prosthesis includes accommodating eyeglasses comprising an actuator in communication with an extra-ocular lens. The actuator providing a focusing stimulus to vary a focal length of the lens. A rangefinder estimates a range to an object and provides the range estimate to a controller. The controller causes the actuator to generate the focusing stimulus on the basis of the range estimate. (19 claims)

9. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Adaptively focusing extra-ocular vision prostheses EP1883374A2 Issued February. 6, 2008 (also published as WO2006107817A2 and WO2006107817A3).

An extra-ocular vision prosthesis includes an actuator in communication with an extra-ocular lens. The actuator providing a focusing stimulus to vary a focal length of the lens. A rangefinder estimates a range to an object and provides the range estimate to a

controller. The controller causes the actuator to generate the focusing stimulus on the basis of the range estimate. (20 claims)

F. Ocular wavefront-correction profiling

10. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling US7331668 (also published as US20060176449), Issued February 19, 2008.

Methods for providing multi-focal visual correction includes determining a plurality of visual conditions to which an eye is to be exposed, determining effects of the visual conditions on a pupil of the eye, and determining a target wavefront profile on the basis of the effects. (19 Claims)

11. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling US7341345 (also published as US20080198331), Issued on March 11, 2008.

Providing multi-focal visual correction includes determining a plurality of pupil conditions for an eye and determining a target wavefront profile on the basis of the plurality of pupil conditions. (38 Claims)

12. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling US8267515 (also published as US20110112634), Issued on September 18, 2012.

Providing multi-focal visual correction includes determining a plurality of visual conditions to which an eye is to be exposed, determining effects of the visual conditions on a pupil of the eye, and determining a target wavefront profile on the basis of the effects. (10 Claims)

13. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling EP1786312A2 (also published as WO2006014624A2, WO2006014624B1) issued on May 23, 2007.

Providing multi-focal visual correction includes determining a plurality of pupil conditions for an eye and determining a target wavefront profile on the basis of the plurality of pupil conditions.

14. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling EP1786312A4 (also published as WO2006014624A3), Issued on March 15, 2007.

Providing multi-focal visual correction includes determining a plurality of pupil conditions for an eye and determining a target wavefront profile on the basis of the plurality of pupil conditions.

15. Azar DT, Gatinel D, Malet J, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling.US 7901076 B2 (also published as US20060023162), Issued on March 8, 2011.

An optical element placed in the eye to provide multi-focal visual correction includes determining a plurality of visual conditions to which an eye is to be exposed, determining effects of the visual conditions on a pupil of the eye, and determining a target wavefront profile on the basis of the effects. (32 Claims)

G. Polarization Sensitive Vision Prosthesis

16. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Polarization-sensitive vision prosthesis US7141065 (also published as US20060089713), Issued on November 28, 2006.

A method for controlling a smart lens having an optical system in optical communication with the retina, the method including detecting a polarization state of light reflected from a retina; and at least in part on the basis of the polarization state, generating a control signal for causing a change to an optical property of the optical system. (16 Claims)

17. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Polarization-sensitive vision prosthesis US7270677 (also published as US20060206204), Issued on September 18, 2007.

A vision prosthesis includes a first detector disposed to detect a polarization state of light reflected from a retina, and a controller in communication with the first detector. The controller is configured to receive, from the detector, a measurement signal indicative of the polarization state. In response thereto, the controller generates a control signal for causing a change to an optical property of an optical system in optical communication with the retina. (13 claims)

18. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Polarization-sensitive vision prosthesis EP1819302A2 (also published as WO2006047232A2), Issued on August 22, 2007.

A vision prosthesis includes a first detector disposed to detect a polarization state of light reflected from a retina, and a controller in communication with the first detector. The controller is configured to receive, from the detector, a measurement signal indicative of the polarization state. In response thereto, the controller generates a control signal for causing a change to an optical property of an optical system in optical communication with the retina.

19. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Polarization-sensitive vision prosthesis EP1819302A4 (also published as WO2006047232A3), Issued November 23, 2006.

A vision prosthesis includes a first detector disposed to detect a polarization state of light reflected from a retina, and a controller in communication with the first detector. The

controller is configured to receive, from the detector, a measurement signal indicative of the polarization state. In response thereto, the controller generates a control signal for causing a change to an optical property of an optical system in optical communication with the retina.

H. Phacoemulsification

20. Azar DT, Hoang-Xuan T, Inventors, Massachusetts Eye and Ear Infirmary and Schepens Eye Research Institute, assignee. Phacoemulsification device. US patent EP 1095642 B1 (also published as DE60000300D1, DE60000300T2, EP1095642A1), Issued July 31, 2002.

Phaco-emulsification device for ultrasonic fragmentation of a crystal within its encapsulating sack within the eye is of the type having two hand pieces. The whole device has a mobile support that stands on the floor with a foot pedal for commanding the three functions of irrigation, irrigation and aspiration and aspiration and emission of ultrasonic vibrations. (5 Claims)

I. IOL Positioning

21. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Intraocular lens positioning. US patent US 7229476 B2. Issued June 12, 2007. Also published as US20050256571, WO2005112826A1.

An optical element is adapted for implantation into a vitreous chamber of an eye, and a suspension system is configured to position a portion of the optical element to intersect a visual axis of an eye. (21 Claims)

J. LASEK Surgery

22. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Separating the epithelium and the stroma of a cornea by providing a solution that includes a detaching agent diluted in a culture medium, solution is then applied to the surface of the cornea; solution with reduced cytotoxicity. US 7015039 B1. Issued March 21, 2006.

A method of separating the epithelium and the stroma of a cornea includes providing a solution that includes a detaching agent diluted in a culture medium and applying the solution to the surface of the cornea. (2 Claims)

23. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Corneal flap slicer. US 6758852 B1 (also published as WO2004045382A2, WO2004045382A3) Issued July 6, 2004.

An apparatus for forming a corneal flap includes a housing from which extend a shaft and a reciprocating member. An aplanating member is mounted at a distal end of the shaft to aplanate a region of the cornea. A cutting blade is mounted to the reciprocating member at a position selected to slice the aplanated region off the cornea. (8 Claims)

K. Photochemical tissue bonding

24. Kochevar IE, Redmond RW, Azar DT, Inventors, Massachusetts General Hospital, assignee. Photochemical tissue bonding US7331350 (also published as US20020022606, US20080009901, US20120095455), Issued February 19, 2008.

Photochemical tissue bonding methods include the application of a photosensitizer to a tissue, e.g., cornea, followed by irradiation with electromagnetic energy to produce a tissue seal. The methods are useful for wound repair, or other tissue repair. (23 Claims)

25. Kochevar IE, Redmond RW, Azar DT, Inventors, Massachusetts General Hospital, assignee. Photochemical tissue bonding EP 1272119 B1, Issued Nov. 24,2010.

Photochemical tissue bonding methods include the application of a photosensitizer to a tissue, e.g., cornea, followed by irradiation with electromagnetic energy to produce a tissue seal. The methods are useful for wound repair, or other tissue repair. (18 Claims)

26. Kochevar IE, Redmond RW, Azar DT, Inventors, Massachusetts General Hospital, assignee. Photochemical tissue bonding CA2399414A1, Patent Issued Aug. 16, 2001.

Photochemical tissue bonding methods include the application of a photosensitizer to a tissue, e.g., cornea, followed by irradiation with electromagnetic energy to produce a tissue seal. The methods are useful for wound repair, or other tissue repair. (22 Claims)

27. Kochevar IE, Redmond RW, Azar DT, Inventors, Massachusetts General Hospital, assignee. Photochemical tissue bonding EP1272119 B1 (also published as EP1272119A4, EP1272119A2), Issued on Nov. 24, 2010.

Photochemical tissue bonding methods (Fig.1) include the application of a photosensitizer to a tissue, e.g., cornea, followed by irradiation with electromagnetic energy to produce a tissue seal. The methods are useful for wound repair, or other tissue repair. (18 Claims)

28. Kochevar IE, Redmond RW, Azar DT, Inventors, Massachusetts General Hospital, assignee. Photochemical tissue bonding EP2335634A1 (also published as WO2001058495A2, WO2001058495A3, DE60143514D1), Issued June 22, 2011.

Photochemical tissue bonding methods include the application of a photosensitizer to a tissue, e.g., cornea, followed by irradiation with electromechanical energy to produce a tissue seal. The methods are useful for wound repair, or other tissue repair. (14 Claims)

L. Neostatin expression vector

29. Azar DT, Chang JH, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Expression vector comprising nucleotide sequences coding C-terminal 28kDa endostatin-spanning proteolytic fragment for use in prevention and treatment of vision defcets associated with cell proliferative disorders US7662945 B2 (also published as US20070015242), Patent issued on Feb. 16, 2010.

The invention provides fragments of type XVIII collagen termed neostatins, and methods for their use in the treatment of ophthalmological disorders associated with angiogenesis. (11 Claims)

30. Azar DT, Chang JH, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Neostatins, US8492141 B2 (also published as US20080109916, US20100331396), Issued on July 23, 2013.

The invention provides fragments of type XVIII collagen termed neostatins, and methods for their use in the treatment of ophthalmological disorders associated with angiogenesis. (13 Claims)

M. Methods and compounds for vessel regression

31. Azar DT, Albe E, Chang JH, Inventors, Massachusetts Eye and Ear Infirmary, assignee. Methods and compounds for promoting vessel regression.US 7897581 B2 (also published as US20060211057, US20110182819, US20120183523 A1, WO2006091930A2, WO2006091930A3), Issued march 1, 2011.

The present invention relates, at least in part, to methods and compositions for treating and diagnosing disorders associated with neovascularization, and methods for identifying targets and compositions used in treating and diagnosing such disorders. (16 Claims)

N. Trans-corneal Device

32. Azar DT, De la Cruz J, Jain S, Inventors, The Board of Trustees of the University of Illinois, assignee. Transcorneal vision assistance device.US 8506626 B2 (also published as US20100168849, WO2008150319A1), Patent Issued on August 13, 2013.

The invention provides a transcorneal vision assistance device implantable in the eye of a patient. A preferred embodiment transcorneal microtelescope vision assistance device is implantable in the eye of a patient and includes a keratoprosthesis configured to replace a portion of the cornea of a patient and to secure the keratoprosthesis to a remaining front portion of the cornea. A microtelescope is carried by the keratoprosthesis for transcorneal mounting of the microtelescope. (14 Claims)

Pending US Patents

33. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision Prosthesis US20130073038. Issued March 21, 2013 (patent pending).

A vision prosthesis includes an intra-ocular lens system having a variable focal length; and a controller that causes a change in the focal length thereof. (18 Claims)

34. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Vision prosthesis with artificial muscle actuator. US patent US20120179248. Issued July 12, 2012 (patent pending).

A visual prosthesis includes an artificial muscle configured to deform in response to a focusing signal. The artificial muscle is coupled to at least a portion of an optical system for changing a focal point thereof. (20 Claims)

35. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Ocular wavefront-correction profiling US20130050651. Issued on February 28, 2013.

Providing multi-focal visual correction includes determining a plurality of visual conditions to which an eye is to be exposed, determining effects of the visual conditions on a pupil of the eye, and determining a target wavefront profile on the basis of the effects.

36. Azar DT, Inventor, Massachusetts Eye and Ear Infirmary, assignee. Polarization-sensitive vision prosthesis US20120092613 (pending) Issued on April 19, 2012.

A vision prosthesis includes a first detector disposed to detect a polarization state of light reflected from a retina, and a controller in communication with the first detector. The controller is configured to receive, from the detector, a measurement signal indicative of the polarization state. In response thereto, the controller generates a control signal for causing a change to an optical property of an optical system in optical communication with the retina. (16 Claims)

RESEARCH FUNDING INFORMATION

Current

2007-2013 NIH/NEI 5P30EY001792-30 P-30-CORE GRANT FOR VISION RESEARCH

1993-2014 NIH Grant, NEI # 10101 -11 to -15, PI
“Metalloproteinases in Corneal Wounds”
Initial Fundable priority score of 124 (**0.8th percentile**) (\$370,731/yr)

2011-2016 NIH Grant, NEI #1K12EY021475-01, PI, “UIC K12 Independent Clinical Vision Scientist Development Program” (\$439,669/yr)

2012-2014 NIH/NCATS UL1TR000050 (Azar)
Center for Clinical and Translational Science (\$3,213,629/yr)

2014-2015 NIH/NCATS UL1TR000050S1 (Azar)
Center for Clinical and Translational Science (\$2,946,243 /yr)

2014-2015 NIH/NCATS UL1TR000050S2 (Azar)
Center for Clinical and Translational Science (\$115,321 /yr)

2013-2014 NIH/NCATS 5TL1TR000049-05
Center for Clinical and Translational Science (\$146,720/yr)

2014-2015 NIH/NCATS 5TL1TR000049-05S1
Center for Clinical and Translational Science (\$64,497/yr)

2012-2015 NIH/NCATS 5KL2TR000048-05 (Azar)
Center for Clinical and Translational Science (\$363,888/yr)

Past

1986 Chibret International Award (national winner)

1986-1987 Fogarty International Research Fellowship Award- PI

1987-1988 Fight for Sight Postdoctoral Research Fellowship Award- PI

1994-1995 Fight for Sight Research Award- PI, Prismatic Photokeratectomy

1994-1995 Tissue Banks International Research Award, PI 1992-1993 ARVO Alcon Award
Fight for Sight Research Sponsorship

1992-1993 Johns Hopkins Institutional Research Award- PI

1993-2003 NIH Grant, NEI # 10101 -01 to -10, PI “Metalloproteinases in Corneal Wounds”

1997-1999 Lions Eye Research Grant, “Corneal Wound Healing”

1997-1999 National Eye Institute Refractive Error Correction Questionnaire Grant
 1997-2005 New England Corneal Transplant Research Grant
 “Corneal Wound Healing after Refractive Surgery”
 1998-2005 Research to Prevent Blindness Lew R. Wasserman Merit Award
 2001-2006 Massachusetts Lions Eye Research Fund Grant
 “Matrilysin: Regulation and Role in Corneal Wound Healing, Avascularity, and
 Host Defenses against Infectious Keratitis”.
 2001-2007 TATRC (US Army Medical Grant) “LASIK-Associated Dry Eye Disease”.
 2003-2008 NIH R01 EY014048 co-PI “Collagen XVIII in Corneal Neovascularization”

NAMES OF ADVISEES OR TRAINEES:

I. Corneal Research and Clinical Fellows/Trainees

1991-1992	Wallace Chamon, MD, PhD	Professor Federal University of Sao Paulo	Scula Paulista Sao Paulo, Brazil
1991-1992	Paolo Rama, MD	Director San Raffaele Sientific Institute	Milan, Italy
1991-1992	Yonca Akova, MD	Professor BasGent Univ.	Ankara, Turkey
1992-1993	Kerry Solomon, MD	Professor University of South Carolina	Charleston, SC
1992-1993	Terry Hufnagel, MD	Director Corneal Laser Center	Long Island, NY
1993-1994	Janine Smith, MD	Deputy Clinical Director National Eye Institute	Bethesda, MD
1993-1994	Gregory Ogawa, MD	Director, Cornea Service Univ. of New Mexico	New Mexico
1993-1994	Richard Braunstein, MD	Assoc. Clinical Professor Columbia University	New York
1993-1995	Tae Won Hahn, MD	Associate Cilinical Professor Catholic University	Seoul, South Korea
1994-1995	Tat Keong Chan, MD	Consultant, Singapore Eye Center	Singapore
1994-1995	Jeffrey Minkovitz, MD	Corneal Surgeon	Wilmington, DE

1994-1995	Daniel Sambursky, MD	Corneal Surgeon	Binghamton, NY
1994-1995	Joseph Pasternak, MD	Ret. Colonel, Corneal Surgeon Bethesda Naval Hospital	Bethesda, MD
1994-1995	Johnny Khouri, MD	Director, Refractive Surg. Dept. of Ophthalmology American Univ. of Beirut	Beirut, Lebanon
1995-1996	Shu Wen Chang, MD, PhD	Associate Professor Chung Gung Memorial Hospital	Taipei, Taiwan
1995-1996	Nada Jabbur, MD	Clinical Associate Professor Clemenceau Medical Center	Beirut, Lebanon
1995-1996	Farooq Ashraf, MD	Medical Director, Atlanta Vision Institute	Atlanta, GA
1995-1996	Riad Shalash, MD	Professor Cairo University	Cairo, Egypt
1996-1997	Amyna Merchant Sultan, MD	Medical Director, Pacific International Hospital Assistant Professor Agha Khan Univ.	Papa New Guinea Karachi, Pakistan
1996-1997	Glenn Cockerham	Retired Colonel, Clinical Associate Professor of Ophthalmology and Pathology, Stanford University Chief, Ophthalmology Service, VA Palo Alto, CA	Palo Alto, CA
1996-1997	Juan-Carlos Abad, MD	Corneal Surgeon Clinica Medellin- Pobdado	Medellín, Columbia
1996-1998	Tad Baum, MD	Corneal Surgeon	Ayer, MA
1996-1998	Hong Ye, MD	NEI	Washington DC
1997-1998	Sonia Yoo, MD	Professor of Ophthalmology Bascom Palmer Eye Institute	Miami, FL
1997-1999	Paul Lu, MD	Buddhist Tzu Chi General Hospital Dept. of Ophthalmology Chung Gung Memorial Hospital	Chai-Yi, Taiwan
1997-1999	Kathryn Colby	Associate Professor, Harvard Medical School Director Clinical Research Center, Mass Eye and Ear Infirmary	Boston, MA

1997-1999	Farzad Yagouti, MD	Director, Laser Center	San Diego, CA
1998-1999	Everardo Hernandez Quintella, MD	Professor La Ceguera	Mexico City, Mexico
1998-2000	Samir Melki, MD, PhD	Clinical Assistant Professor, Harvard Medical School Founder, Boston Eye Group Surgeon, Mass Eye and Ear Infirmery	Boston, MA
1998-2000	Stephen Stechschulte, MD	Cornea Surgeon	Kansas City, MO
1999-2001	Jonathan Primack, MD	Corneal Surgeon Eye Consultants of Pennsylvania	Wyomissing, PA
1999-2001	Hsin-Chiung Lin, MD	Corneal Surgeon Chung Gung Memorial Hospital	Taipei, Taiwan
1999-2001	Natalie Afshari	Professor of Ophthalmology Chief of Cornea Service, UCSD	La Jolla, CA
1999-2001	Sandeep Jain, MD	Associate Professor, University of Illinois at Chicago	Chicago, IL
1999-2001	Eric Gabison, MD	Professor University of Paris	Paris, France
1999-2001	Tomoko Kure, MD	Corneal Surgeon	
2000	Prasad Panthagani, MD	Corneal Surgeon	
2000	Cinthia Proano, MD		Ecuador
1999-2001	Takuji Kato, MD	Juntendo University	Tokyo, Japan
2000-2002	Jae Bum Lee, MD	Associate Professor Yonsei University	Seoul, South Korea
2000-2002	Chun Chen Chen, MD	Assistant Professor Taiwan, University	Taipei, Taiwan
2000-2001	Robert Ang, MD	Senior Refractive Corneal Surgeon Asian Eye institute	Manilla, Philippines
2000-2001	Bilal Khan, MD	Ophthalmology Resident Massachusetts Eye and Ear Infirmery	Boston, MA

2000-2002	Shahzad Mian, MD	Associate Professor, Terry J. Bergstrom Collegiate Professor for Resident Education, Kellogg Eye Center, University of Michigan	Ann Arbor, MI
2000-2002	Jae Bum Lee	Associate Professor Yonsei University	Seoul, South Korea
2000-2002	Joel Javier, MD	Country Manager, Bausch and Lomb, Philippines Corneal Surgeon	Manilla, Phillipines
2000-2002	Kimberly Sippel, MD	Assistant Professor Weill Cornell	New York, NY
2000-2002	Victor Perez, MD	Professor of Ophthalmology Bascom Palmer	Miami, FL
2000-2002	Eric Dudenhoeffer, MD	Wilford Hall U.S. Airforce	San Antonio, TX
2001-2003	Ahn Nguyen, MD	University of Montreal	Montreal, Canada
2001-2003	Mahnaz Nouri, MD	Corneal Surgeon	Boston, MA
2001-2003	Patrick Yeh, MD	Corneal Surgeon	Los Angeles, CA
2001-2003	Elias Jarade, MD	Corneal Surgeon	Dubai, U.A.E.
2002-2003	Li-Ju Chen, MD	Municipal Taipei Hopping Hospital	Taipei, Taiwan
2002-2004	Scott Barnes, MD	Womack Army Medical Center	Fort Bragg, NC
2002-2004	Joseph Ma, MD	University of Toronto	Toronto, Canada
2002-2004	Puwat Charukamnoetkanok, MD	UPMC Eye Center	Pittsburgh, PA
2003-2004	Shu-I Yeh, MD	Mackay Memorial Hosp.	Taipei, Taiwan
2003-2004	Varintorn Chuckpaiwong, MD	Ramathibodi Hospital	Bangkok, Thailand
2003-2004	Elizabeth Escalona, MD	Pando Ferrer Ophthalmologic Hospital de Cuba	Cuba
2003-2004	Rama Rajagopal, MD	C.U. Shah Ophthalmic Post-Graduate Training Centre	Chennai, India
2003-2004	Suphi Taneri, M	Center for Refractive Surgery, St Franziskus Hospital	Munster, Germany

2003-2004	Joseph Torras, MD	Corneal Surgeon	Spain
2003-2005	Mark Rosenblatt, MD	Associate Professor, Weill Cornell Medical College Incoming Chair, UIC Ophthalmology	New York, NY Chicago, IL
2003-2005	Anthony Poothullil, MD	Corneal Surgeon	Portland, OR
2003-2005 2003-2004	Patricia Tsai, MD Shu-I Yeh, MD	Corneal Surgeon Mackay Memorial Hospital	California Taipei, Taiwan
2003-2005	Elena Albe, MD	Instituto Clinico Humanitas	Milano, Italy
2004-2005	Fabio Casanova, MD	Federal University of Sao Paolo	Recife, Brazil
2004-2005	Ula Jurkunas, MD	Associate Professor Harvard Medical School Mass Eye & Ear Infirmary	Boston, MA
2004-2005	Alice Yu, MD	Ophthalmology	Munich, Germany
2004-2005	Tae Im Kim, MD	Corneal Surgeon, Professor Yonsei University	Seoul, South Korea
2005-2006	Audrey Chan	Mass Eye and Ear	Boston, MA
2005-2006	Mona Harissi-Dagher, MD	Corneal Surgeon Department of Ophthalmology, Université de Montréal, Montréal, Que.	Montréal, Quebec
2005-2006	Leonard Ang, MD	Assistant Professor Consultant, Cornea and External Eye Disease Service Singapore National Eye Centre	Singapore
2005-2006	Faisal Tobaigy, MD	Dean, Jazan University	Jizan, Saudi Arabia
2006	Tohru Sakimoto, MD	Corneal Surgeon	Tokyo, Japan
2006	Rony Sayegh, MD	Clinical Instructor Case Western	Cleveland, OH
2005-2007	Jose De la Cruz, MD	Assistant Professor, Director Millennium Park Eye Center, UIC Illinois Eye and Ear Infirmary	Chicago, IL

2006-2007	Ramon Ghanem, MD	Corneal Surgeon	Sao Paolo, Brazil
2005-2007	Kojima Takashi, MD	Corneal Surgeon	Tokyo, Japan
2006-2007 2007-2008	Tatsuya Mimura, MD Jae Yong Kim, MD	Corneal Surgeon Corneal Surgeon	Tokyo, Japan South Korea
2007	David Fahd, MD	Ophthalmology Resident	Beirut, Lebanon
2007	Waleed Mahran, MD	Corneal Surgeon	Cairo, Egypt
2007	Chi-Wei Wu, MD	Corneal Surgeon	Taiwan
2006-2008	Tatsuya Onguchi, MD	Corneal Surgeon	Japan
2007-2008	Janet Lee, MD	Corneal Surgeon	Chicago, IL
2007-2008	Jules Winokur, MD	Corneal Surgeon	New York
2008-2009	Soledad Cortina, MD	Assistant Professor, Director Comprehenisve Eye Clinic, UIC Illinois Eye and Ear Infirmary	Chicago, IL
2008-2009	Kristina Thomas, MD	Corneal Surgeon Associates in Ophthalmology	Pittsburgh, PA
2009-2010	Isaac Porter, MD	Corneal Surgeon	Raleigh, NC
2009-2010	Michael Weisberg, MD	Corneal Surgeon	Chicago, IL
2010-2011 2010-2011	Mohammad Taha, MD Saba Elderkin, MD	Ophthalmology Resident Corneal Surgeon	Montreal, Canada Chicago, IL
2010-2011	Krishna Sanka, MD	Corneal Surgeon	Kenosha, WI
2007-	Kyu Yeon Han, PhD	Research Assitant Professor	Chicago, IL
2010-2012	Okun Ozturk, MD	Attending Surgeon	Turkey
2011-2012	Roshni Vasiawala, MD	Corneal Surgeon	Chicago, IL
2011-2012	Priti Bata, MD	Assistant Professor	New York, NY
2012-2013	Scott Kelly, MD	Corneal Surgeon	Houston, Texas
2012-2013	Samuel Lee, MD	Corneal Surgeon	California
2012-2013	Joshua Hou	Corneal Surgeon	Minnesota
2012-2013	Lauren Schneider	Corneal Surgeon	Connecticut

TEACHING

(Selected Lectures and Courses)

Massachusetts Eye and Ear Infirmary/ Harvard Medical School

1991- 2014 **Lancaster Course in Ophthalmology**
Course coordinator: Cornea Section
105 first and second year Ophthalmology Residents
9 week course/year

1991 **Pediatric Ophthalmology**
Course Director
100+ Ophthalmologists and Pediatricians
8 hours/year

1991 **Advances in Ocular Drug Therapy**
Course Director
100 Ophthalmologists and Residents
8 hours/year

1991, 96-2005 **Cornea and External Disease Lecture Series**
Lecturer
60-70 Ophthalmology Residents
2 to 6 hours/year

1996-2003 **Harvard's Intensive Review of Ophthalmology**
Course Lecturer, Optics and Cornea Sections

2000, 2003 **Kevin Hill Course in Ophthalmology**
Course Director, Cornea/Refractive Surgery
Lecturer, Cornea/External Diseases

The Wilmer Ophthalmological Institute/ Johns Hopkins University

1991-1996 **Cornea/Refractive Surgery, Current Concepts in Ophthalmology**
Chairman and Lecturer
80 to 200 Ophthalmologists; 2-3 hour lectures/year

1996-2003, 2007 **Cornea/Refractive Surgery, Current Concepts in Ophthalmology**
Lecturer
1-3 hour lectures/year

American Academy of Ophthalmology

- 1994-2004 **Cataract and Refractive Surgery Update**
Instructor
100-200 Ophthalmologists annually
- 1995-2011 **Phototherapeutic Keratectomy**
Course Director
60-140 Ophthalmologists annually
- 1995-1997 **Essential Optics for Keratorefractive Surgeons**
Course Director
- 1997-1999 **Corneal Challenges**
Instructor
- 1997-2000 **Incisional and Laser Astigmatic Surgery**
Instructor
- 1999-2000 **Oops:**
The Most Common and Serious Corneal Keratorefractive Complications
Course Director
- 2000-2002 **Treatment of Ocular Surface Disease.**
Instructor
- 2000-2002 **Posterior Lamellar Keratoplasty**
Course Director
- 2000-2003 **101 Pearls in Refractive, Cataract and Corneal Surgery**
Instructor
- 2000-2002 **Refractive Corneal Retreatments**
Instructor
- 2000-2003 **LASEK**
Instructor
- 2001-2003 **Corneal Transplantation Update**
Instructor
- 2004 **Current Topics in Refractive Surgery: Highlights of the BCSC 14**
Instructor

2006 **Keratoconus & Corneal Ectatic Disease:** Developments in Early Diagnosis and Surgical Management
Instructor

American Academy of Ophthalmology (Cont.)

2006 **Cataract & Refractive Surgery Update**
Instructor

2006 **Corneal and Anterior Segment Surgical Challenges**
Instructor

2006 **Current Topics in Refractive Surgery:** Highlights of the CSC 13
Instructor

2006-2007 **Surgical Treatment of Corneal Disease**
Instructor

2007-2011 **Illinois Eye and Ear Infirmary Course-When all Else Fails: Strategies for Managing Recalcitrant Corneal Conditions**
Instructor

2014 **Phototherapeutic Keratectomy**
Instructor and Course Director

Selected Invited Presentations:

1986 Speaker; The International Congress of Ophthalmology, Rome

1987, 1993 Speaker; The Eye Research Institute Cornea Conference

1987-2000 Speaker; The Association for Research in Vision and Ophthalmology

1987-2000 Speaker; The American Academy of Ophthalmology

1990 Invited speaker; “The Diabetic Cornea” Georgetown University Center for Sight

1991 Invited speaker; The Course: Innovations in Clinical Ophthalmology

1992, 1994 Invited speaker; The Eye Bank Association of America Meeting

1993 Invited speaker; The Castroviejo Cornea Society Grand Rounds: “Management of Anterior Segment Trauma” George Washington University
Invited speaker; “Corneal and Iris Trauma.” National Eye Institute.

1993-1995 Invited speaker: “Radial Keratotomy” and “PRK for Surgically-Induced Astigmatism” The Greater Baltimore Medical Center

- 1994 Speaker; The International Society of Refractive Keratoplasty
 Invited speaker; “Refractive Surgery” and “PRK for RK and for surgically-induced astigmatism” The Maryland Society of Eye Physicians and Surgeons
 Invited speaker; “Radial Keratotomy” and “Excimer Laser Surgery” The Maryland Optometric Society Meeting
 Invited speaker; “Refractive Surgery: Introduction & Update” George Washington University
 Invited speaker; “Keratomileusis and ALK” The Sinai Hospital
 Invited speaker; “Recent advances in Refractive Surgery” The Delaware Medical Society
 Invited speaker; “Refractive Surgery” Pennsylvania Optometric Society meeting
 Invited speaker; “Management of Haze after PRK” and “What’s not: RK for High Myopia” ISRG Pre Academy Meeting
- 1995 Invited speaker; “Radial Keratotomy.” A Day of CME at Milford Memorial Hospital
 Speaker; “Corneal Wound Healing after Excimer Keratectomy.” American Academy of Ophthalmology
- 1996 Invited speaker; “Corneal Light Scattering after PRK and ALK,” “Contrast Sensitivity after RK,” Conservative Refractive Surgery. Should Emmetropia be our goal?” XIX International Symposium Moacyr Alvaro-Advances in Refractive Surgery, São Paulo, Brazil
 Invited speaker; “Radial Keratotomy/Conservative RK: Undercorrection: Foe or Friend,” “Excimer Laser/Wound Healing,” and “LASIK and ALK.” Current Concepts in Ophthalmology, Vail, CO
 Invited speaker; “Corneal Light Scattering after PRK and Keratomileusis,” “Corneal Wound Healing after PRK and PTK,” “PTK-Clinical Results,” and “Review of Corneal Infections after RK.” Annual Meeting for the Washington Academy of Eye Physicians and Surgeons
 Speaker; “Surgically-induced Prismatic and Refractive...” and “Corneal Topography I.” ARVO Annual Meeting. Fort Lauderdale, Florida.
 Invited speaker; “Advances in Refractive Surgery.” 55th Annual Wilmer Residents Association Meeting. Baltimore, MD.
 Invited speaker; “Patient Examination in Corneal and External Diseases,” “Management of Recurrent Erosion Syndrome and PED,” Corneal Dystrophies Overview,” “Immunology of Ocular Allergy and External Disease,” and “Bacterial Keratitis.” The Hong Kong Hospital Authority Ophthalmic Services.
 Invited speaker; “Excimer Laser PRK after RK,” and “Wound Healing.” International Symposium on Laser Surgery. Security Forces Hospital, Riyadh, Kingdom of Saudi Arabia

Invited speaker; “Radial Keratotomy,” “Excimer Laser/Wound Healing,” and “LASIK and ALK,” “Refractive Keratoplasty.” Puerto Rico Current Concepts Faculty, Dorado, Puerto Rico

1997 Invited speaker; “Cornea Dystrophies and Anomalies” Osler Institute
Invited speaker; “Anterior Segment Optics” University of Toronto Visiting Professors Programme
Invited speaker; “LASIK vs. PRK: Review of the Literature” ISRG Pre Academy Meeting

1998 Invited speaker; “Corneal Topographic Changes After PRK and LASIK,” “PARK for Astigmatism: How Does It Compare to PRK or LASIK?” “PRK after RK,” and “Management of Decentration, Haze and Central Islands after PRK and LASIK” Current Concepts in Ophthalmology, Vail, CO
Invited speaker; “Phototherapeutic Keratectomy,” Asia Pacific Society of Cornea and Refractive Surgery, Singapore
Speaker; “Management of IOL Complications,” “Postoperative Complications in Refractive Surgery,” and “Management of Lamellar Corneal Surgery Complications” ASCRS, San Diego, CA
Invited speaker, “LASIK vs. PRK: The Bull Market Dilemma:” Wilmer Nurses’ Conference, Baltimore, MD
Invited Speaker; “Management of LASIK and PRK Complications”: Georgetown University
Invited Speaker; Inaugural Scientific Meeting of the Asia Pacific Society of Cornea and Refractive Surgery, Singapore

1999 Invited Speaker; “Management of PRK and LASIK Complications” Japanese Ophthalmic Society
Invited Speaker; “Management of Decentrations, Central Islands and Haze Following LASIK and PRK,” Hoover Naquim Symposium
Invited Speaker; “Refractive Surgery Update,” Scheie Eye Institute, Philadelphia
Invited Speaker; Hoover Naquim Symposium, Baltimore, MD
Speaker; Lancaster Course in Ophthalmology, Waterville, ME
Invited Speaker; “Possible Antiangiogenic Role of Angiostatin in the Cornea after Wounding” 21st Schepens Bi-annual Cornea Conference, Boston, MA
Invited Speaker; “Management of PRK/LASIK Complications” and LASIK Indications and Techniques” New York State Ophthalmology Society, NY
Invited Speaker; Columbia University, New York
Invited Speaker; “Management of LASIK Complications” Massachusetts Society of Optometrists, Marlborough, MA
Invited Speaker; “Etiology and Management” New England Ophthalmological Society, Boston, MA

Invited Speaker; "Update of Excimer Lasers and its Future Role in Refractive Surgery," "Treatment Options for High Hyperopia," "Prevention and Management of PRK Complications," and "LASIK: Indications and Techniques" Philippines Academy of Ophthalmology

Invited Speaker; "Current Corneal Topographic Imaging Techniques." Current Concepts in Ophthalmology. The Wilmer Institute, Baltimore, MD

Speaker; "LASIK Video Grand Rounds: Complication Management." American Society of Cataract and Refractive Surgery (ASCRS). Seattle, WA.

Invited Speaker; "Management of PRK and LASIK Complications." Ophthalmological Society Annual Meeting; Current Concepts in Refractive Surgery. New York.

Invited Speaker; "PRK/LASIK: Indications and Techniques." "Management of PRK/LASIK Complications," "Molecular Basis of Corneal Neovascularity and Clarity after Refractive Surgery," and "Intracorneal Rings and Phakic IOLs." Scheie Eye Institute, U Penn Health System, Department. Philadelphia, PA.

2000 Speaker; "EyeNet Audio Interview" American Academy of Ophthalmology

Invited Speaker; "Management of LASIK Complications," and "Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery." German-French Symposium. Klinik Und Poliklinik Für Augenheilkunde, Campus Virchow Klinikin, Germany

Keynote Speaker; "Corneal Angiogenic Privilege." Société Française d'Ophthalmologie. Paris, France.

Invited Speaker: "Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery" New York Presbyterian Hospital, New York

2001 Invited Speaker; "LASIK Indications and Techniques," "Diffuse Lamellar Keratitis Pathologies and Management," "Scanning Slit Lamp Topography and Posterior," and "Management of Topographical Abnormalities after PRK and LASIK." Current Concepts in Ophthalmology. Dorado, Puerto Rico.

Invited Speaker; "LASIK Surgery: Maximizing Success," "When Should Non-LASIK Refractive Surgery be Considered?" University of Minnesota Department of Ophthalmology

Speaker, "Management of Topographical Abnormalities after PRK and LASIK," "LASIK: Indications and Techniques." World Vision Symposium 2001, Orlando, FL

Invited Speaker: "Simultaneous Corneal Laceration Repair, Cataract Removal, and PC IOL," "Treatment Options for Hyperopia and Hyperopic Astigmatism," "LASEK Indications and Techniques." 18th Congress of the Asia-Pacific Academy of Ophthalmology, Taipei, Taiwan

Invited Speaker: "Trauma", "Management of Topographical Abnormalities after PRK & LASIK." R.I Grand Rounds, Rhode Island Hospital, Providence, RI

Invited Speaker: “LASIK Indications”, “Management of LASIK Complications”, Molecular Basis of Corneal Clarity”, Pittsburgh Ophthalmology Society Spring Meeting, Pittsburgh, PA

Invited Speaker: “New developments in LASIK technique”, “What is LASEK”, “Current thoughts on PRK”, “Difficult Procedures: What was learned from problematic cases, Complication management”, “MultiSite Case Histories: Interesting MLS cases for discussion”. MultiSite Vision Alliance Meeting. Boston, MA

Presenter: “Survival of Corneal Epithelial and Endothelial Cells”, “In Vivo Photochemical Keratodesmos in Corneal Incisions and Penetrating Keratoplasty Wounds”, “Corneal Infections in Matrix Metalloproteinase Deficient Mice”, “Characterization of Anti-Angiogenic Precursor Collagens, Types XV and XVIII in Murine Cornea: Role of MMP-7”, In Vitro Characterization of Angiostatin-Like Molecules in Epithelial Cell-Keratocyte Interactions”, “Corneal Angiogenesis in Gelatinase A-Deficient Mice”, “Enhanced Expression of Human Metalloelastase in Ocular Surface Disorders”, “Transactivation of Matrilysin and Beta Defensin-2 Upon Bacterial Challenge in Human Corneal Epithelial Cells”, “Diffuse Lamellar Keratitis: Incidence, Characteristics, and Visual Outcomes”. The Association for Research in Vision and Ophthalmology (ARVO) Annual Meeting, Fort Lauderdale, FL

Invited Speaker: “Corneal Asphericity Changes after Refractive Surgery”, “Limitation of LASIK”, PAACO-LOS Congress 2001, Beirut, Lebanon

Invited Speaker: “LASIK Surgery: Maximizing Success”, “Treatment Options for Hyperopia and Hyperopic Astigmatism”, Annual Buffalo Ophthalmology Conference, Buffalo, New York.

Invited Speaker: “Hints and Kinks in Doing Potentially Problematic LASIK”, “LASIK Management of Mixed and Hyperopic Astigmatism”, “Refractive Surgery for Keratoconus-Is it Reliable?”; “Update on Dry Eyes”, “Stem Cell Transplantation and Amniotic Membrane Surgery-A Revolutionary Concept,” “Eight Pearls in Prevention and Management of LASIK Complications”, “Five Pearls in Limbal Stem Cell Transplantation”, “Three Pearls in Amniotic Membrane Grafting”, 73rd Annual Ophthalmology Spring Postgraduate Conference, “Recent Advances in Cornea, External Disease, and Refractive Surgery”, University of Michigan W.K. Kellogg Eye Center, Ann Arbor, MI

Invited Speaker: “LASIK Complications”, “LASEK: Evolution, Technology and Results”, “Corneal Asphericity Changes after Refractive Surgery”, “Wavefront Advantages and Current Limitations”, “Corneal Angiogenic Privilege”, “Treatment of Mixed & Hyperopic Astigmatism”, Cornea Y Refractiva, Cancun, Mexico

Invited Speaker: “LASEK Evolution and Techniques”, Nantucket Cornea, Nantucket Island, Massachusetts

Invited Speaker: “Laser Subepithelial Keratomileusis”, Ophthalmology in the 21st Century, Brewster, MA

Invited Speaker: "LASEK Evolution and Techniques", "Molecular Basis of Corneal Angiogenic Privilege", Southwestern Medical Center, Dallas, TX

Invited Speaker: "Management of LASIK Complications", New Hampshire Optometric Association, Inc., Bretton Woods, NH

Invited Speaker: "Management of Hyperopia, Hyperopic Astigmatism & Mixed Astigmatism" Mass. Society of Optometrists, Westborough, MA

Speaker: "Overview of Treatment Profile for Mixed Astigmatism", "LASEK: Flap PRK-Do the Advantages Outweigh the Disadvantages", American Academy of Ophthalmology, New Orleans, LA

2002

Invited Speaker: "LASEK Evolution and Techniques, "Molecular Basis of Corneal Clarity", "Topographical Abnormalities after LASIK" Kansas City Society of Ophthalmology and Otolaryngology, Overland Park, Kansas

Invited Speaker: "Corneal Endothelial Transplantation", New England Ophthalmological Society, Inc., Boston, MA

Speaker: "LASEK Corneal Anatomy (How Does Alcohol Work?)", "Surgical Techniques" First International LASEK Congress, Houston, TX

Invited Speaker. "Dry Eye after LASIK", New England Ophthalmological Society, Inc., Boston, MA

Invited Speaker: "Laser Subepithelial Keratomileusis (LASEK) Indications, Mechanism of Action, Surgical Technique and Outcomes", "Corneal Angiogenic Privilege", "LASIK Indications and Techniques",. Dean A. McGee Eye Institute, Oklahoma City, OK

Invited Speaker: "Management of LASIK Complications", "Molecular Basis for Corneal Clarity and Avascularity after Refractive Surgery", "LASEK: Evolution and Techniques", "Wavefront-Assisted Custom Corneal Treatment", "Management of IOL Complications", Chicago Ophthalmological Society, Chicago, IL

Presenter: "Endostatin-like Molecule Generated by Matrilysin Cleavage of Collagen Type XVIII Inhibits Vascular Endothelial Cell Proliferation", "Gene Transfer into Mouse Corneal Epithelial Cell Lines Using an Ecdysone Regulated Ecotropic Retroviral Vector System", "Basics of Custom Cornea", "Clinical Outcomes", "Limitations", The Association for Research in Vision and Ophthalmology (ARVO), Fort Lauderdale, FL

Speaker "Complications of Refractive Surgery from a Cornea Specialist's Perspective", "Controversies in New Treatment Modalities: LASEK (Pro Argument), "Alcohol and Epithelial Flap Viability", "Epithelial Defects after LASIK", American Society of Cataract & Refractive Surgery (ASCRS), Philadelphia, PA

Invited Speaker: "Scanning and Tracking Laser Technology", "Understanding Laser Correction of Astigmatism", Excellence in LASIK Lecture Series, New Haven, CT

Speaker: "Refractive Surgery Overview Principles", "Corneal Topography Wavefront and Instrumentation", "Blunt Ocular Trauma", "Perforating Trauma",

“Keratoplasty: Indications, Techniques, and Complications”, “Phototherapeutic Keratectomy”, Lancaster Course, Waterville, ME

Invited Speaker: “LASEK Evolution & Techniques”, “Management of LASIK Complications”, “Corneal Angiogenic Privilege and Neovascularization”, XXV Mexican National Ophthalmologic Meeting, Morelia, Mich. Mexico

Invited Speaker: “Profiles of Ablation of LASIK treatment of Astigmatism”, “LASEK vs. LASIK in high Myopia”, “Spherical Aberrations after LASIK”, Excellence in LASIK, Lake George, NY

Invited Speaker: “Corneal Wound Healing/Physiology”, “Management of LASIK Complications”, “Epi-LASIK Indications, Outcomes, Techniques and Biology”, “Monovision”, Frontiers in Refractive and Anterior Surgery, Pepose Vision, St. Louis, MO

Speaker: “Excimer Laser Phototherapeutic Keratectomy for Anterior Corneal Pathology”, “Outcomes of LASIK Retreatment and of Decentered PRK Treatments”, “The Case for LASIK vs. LASEK”, “Preoperative Considerations for Successful Corneal Transplantation”, “Combined ICRS and LASIK (IC-LASIK) for High Myopia and Thin Corneas”, “Alcohol and Epithelial Flap Viability”, American Academy of Ophthalmology Meeting, Orlando, FL

Invited Speaker: “LASIK Indications and Techniques”, “Topographical Abnormalities after LASIK”, “LASEK: Evolution & Techniques”, “Molecular Basis of Corneal Clarity after Refractive Surgery”, “Wavefront Assisted Custom Corneal Treatments”, “IC-LASIK: A New Surgical Technique for High Myopia”, “Deep Lamellar and Endothelial Keratoplasty Techniques”, Henan Institute of Ophthalmology, Zhengzhou, China

2003

Invited Speaker: “PRK, LASIK, Astigmatic Corrections & Spherical Aberrations”, Manhattan Eye, Ear & Throat Hospital, New York, NY

Invited Speaker-“Corneal Wound Healing Following Refractive Surgery” Alcon Research Institute Symposium, Ft. Worth, TX

Invited Speaker-“LASEK Evolution and Technique”, “Corneal Angiogenic Privilege”, “Epithelial Masquerade Syndrome”, “IC-LASIK: Combined ICRS and LASIK for High Myopia”, Washington Academy of Eye Physicians and Surgeons, Seattle, WA

Invited Speaker-“Corneal Angiogenic Privilege”, Grand Rounds, Yale University Department of Ophthalmology, CT

Invited Speaker- “LASEK anatomy-how alcohol works”, “LASEK modifications and pearls”, “Wound healing: The challenge of LASEK and advanced surface ablation”, 2nd International LASEK & Advanced Surface Ablation Congress, Cleveland, OH

Speaker-“Using the Excimer Laser to Treat Corneal Diseases”, “Update on Corneal Dystrophies”, “Blunt Ocular Trauma”, “Penetrating Trauma and Anterior Segment Reconstruction”, Lancaster Course, Waterville, ME

Invited Speaker-“Mitomycin C for Prophylaxis of Corneal Haze in Photorefractive Keratectomy”, New England Ophthalmological Society, Inc, Boston, MA

Speaker-“Scientific Perspective on the Epithelium in LASEK”, “Deep Lamellar Keratoplasty”, “Epithelial Defect-Masquerade Syndrome”, “Use of LASEK to treat LASIK Flap Complications”, American Academy of Ophthalmology, Anaheim, CA

Invited Speaker-“LASEK Past, Present and Future” Winter Congress Berlin-Brandenburgischen Augenärztlichen Gesellschaft, Berlin Germany

Invited Speaker-“Phakic Intraocular Lenses: Do They Cause Cataracts?” New England Ophthalmological Society Annual Meeting, Boston, MA

2004

Invited Speaker-“Le pseudophaque peut-il accommoder?”, ‘Monovision chirurgicale: comment l’appliquer et a qui?’, Paris Interefract 2004, Paris, France

Invited Speaker- “Monovision Refractive Surgery”, “Wavefront-guided LASIK: Advantages & Limitations”, “Epithelial Defect Masquerade Syndrome after LASIK”, “Molecular Basis of Corneal Clarity & Avascularity after Refractive Surgery”, “Phakic IOLs: Do They Cause Cataracts?”, “Combined ICRS-LASIK for High Myopia”, Saudi Ophthalmology 2004, Riyadh, Saudi Arabia

Invited Speaker- “Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery”, “Combined LASIK and INTACS for High Myopia” Cataract and Refractive Surgery Symposium, Miami Beach, FL

Invited Speaker-“LASEK Indications and Techniques”, “Molecular Basis of Corneal Clarity and Avascularity after Refractive Surgery”, Jules Stein Eye Institute Clinical and Research Seminar, UCLA, Los Angeles, CA

Invited Speaker-“Corneal Angiogenic Privilege: The Molecular Basis for Corneal Clarity and Avascularity after Refractive Surgery” Department of Ophthalmology Annual Alumni Meeting, Boston, MA

Invited Speaker – “LASEK Indications and Techniques”, “Epithelial Defect Masquerade Syndrome after LASIK.” Florida Society of Ophthalmology, 2004 Annual Meeting, Orlando, FL

Speaker-“Pro and Anti-Angiogenic Role of MMP-7 and -14 in the Cornea” XVI International Congress of Eye Research, Sydney, Australia

Invited Speaker-“Molecular Basis of Corneal Clarity after Refractive Surgery” Visiting Professor Grand Rounds, Kellogg Eye Center, Ann Arbor, MI

Invited Speaker-“Ablation Profiles and Wavefront Guided LASIK-Advantages and Limitations” The New England College of Optometry, Boston, MA

Invited Speaker-“Corneal Asphericity, Wound Healing and Wavefront-Guided Laser Corneal Surgery” Robert Webb Symposium, Massachusetts General Hospital, Boston, MA

Speaker-“Strategies for Treatment of Astigmatism”, “Surface Ablation: Could it be it. The Future for US Refractive?”, “Biomodulation of Wound Healing”, “New Terminology: DTS”, “Epithelial Defect Masquerade Syndrome after LASIK”,

“Sutureless Conjunctival Transplantation”, 2004 Subspecialty Day and American Academy of Ophthalmology Meeting, New Orleans, LA

Invited Speaker-“Conductive Keratoplasty” Pearls on CK and Monovision, “Wavefront 2004” Advances in Refractive Surgery, Postgraduate Course, “Ophthalmology 2005: Eddies and Currents”, University of California, San Francisco, CA

2005 Invited Speaker-“Wavefront-Guided Keratorefractive surgery: Advantages and Limitations”, “Corneal Neovascularization”, 9th Nottingham Eye Symposium and Research Meeting, University of Nottingham, Nottingham, England

Invited Speaker-“Compassion, Knowledge, and Advanced Ophthalmic Technologies”, Unite for Sight Second Annual International Conference, Harvard University, Boston, MA

Invited Speaker-“Bimanual Phacoemulsification”, “Microbacterial and Fungal Keratitis Following LASIK”, “Molecular Basis of Corneal Scarring and Avascular Membranes”, “IntraLase Use in LASIK; Techniques, Complications and Management”, “Phakic IOL & Piggyback IOL Calculation. Basics & Clinical Application”, “Conductive Keratoplasty for Presbyopia; Indications and Techniques”, Joint Meeting of the VIII International Congress of the Pan Arab African Council of Ophthalmology and the XII UAE International Ophthalmic Conference of the Emirates Medical Association, Dubai, United Arab Emirates

Invited Speaker-“What Are the Optical Limits to Corneal Refractive Surgery”, “Meniscus Dimensions & Their Effect on Flap Cutting Efficiency”, World Cornea Congress V, Washington, DC

Speaker-“LASEK, Epi-LASIK, and IntraLase Wavefront-Guided (Custom) Excimer Laser Surgery: Indications and Techniques”, ASCRS/ASOA, Washington, DC

Invited Speaker-“Why Prefer Surface Ablations Over LASIK”, 4th International Congress on EPI-LASIK and Advanced Surface Ablation, Cleveland Clinic, West Ft. Lauderdale, FL

2006 Invited Speaker-“Corneal Angiogenic Privilege: the molecular basis of corneal clarity and avascularity”. Stanford Ophthalmology Lecture Series, Harvard University, Boston, MA

Presenter-“New Approaches in Posterior Lamellar Transplantation Endokeratoplasty”, “Post Traumatic Iridodialysis during String Sutures”. International Course of Corneal Surgery, Barcelona, Spain

Presenter – “Corneal Neovascularization”. ARVO, Fort Lauderdale, FL

Guest Lecturer – “Molecular Basis of Corneal Clarity”. Cole Institute Distinguished Lecture Series, Cleveland, OH

Presenter – “Intralase-Assisted Endokeratoplasty”. 4th SOI International Congress, Rome, Italy

Instructor – “Advances & Challenges in Refractive Surgery”. Association of Physicians of Pakistani Descent of North America, CME Program, Chicago, IL

Instructor – “Keratoplasty Indications, Techniques, and Complications”.
Lancaster Course, Colby College, Waterville, ME

Presenter – “Refractive Surgery and Dry Eye: what we need to know”. Symposia
Contressi, Fermo, Italy

Presenter – “Monovision: the perfect solution for prehyopia”. XXIV Congress
ESCRS, London, United Kingdom

Guest Speaker – “Surgical Options for Treating Astigmatism”. New England
Ophthalmological Society, Boston, MA

2007

Invited Speaker-“Angiogenic Privilege: the molecular basis of corneal clarity and
avascularity after surgery”. Mayo Clinic Lecture Series, Rochester, MN

Presenter – “Scientific Rationale for Choosing ASA vs. SBK vs. Thick Flap
Lasik; which is preferred”. ARVO, Fort Lauderdale, FL

“Epi-LASIK Update: are there advantages over the surface techniques?”, and
“Double Pupiloplasty for repair of blunt iris trauma” Current Concepts in
Ophthalmology, Vail, CO

“Are we really using the laser to its maximum? Latest advances in lasik.”

“Presbyopia: update on surgical methods,” and “New uses of Femtosecond Laser
in Refractive Surgery”, Alicante Refractiva International Conference 2007, Spain

“Wavefront-Guided Refractive Surgery: Advances & impediments”, Mooney
Lecture Series, Irish College of Ophthalmologists, Ireland

Invited Speaker – “Surgical Approaches for the Correction of High Astigmatism”,
European Society of Ophthalmology, Vienna, Austria

Presenter – “Impact of Refractive Surgery on the Tear Film and Ocular Surface”,
5th International Conference on the Tear Film & Ocular Surface, Taormino,
Sicily.

William N. Williford, MD Distinguished Visiting Professorship – “Wavefront-
guided LASIK: Advantages and limitations,” University of Tennessee , Memphis
Tenn. September 13-14, 2007.

Invited speaker-“Advantages and Limitations of Wavefront-Guided Lasik /
Femtosecond laser for management of high Astigmatism”, Cleveland
Ophthalmological Society, Cleveland Ohio, October 9, 2007

Keynote speaker-“Corneal Angiogenesis and Lymphangiogenesis”, Claes H.
Dohlman Lecture 25th Biennial Cornea Conference Schepens Eye Research
Institute, Harvard Medical School, Boston, Massachusetts. October 12-13, 2007

Instructor and Refractive Surgery Course Moderator - “Post Keratoplasty
Astigmatism” and “Advantages and Limitations of Wavefront Guided LASIK”
5th Annual Corneal, Cataract, and Refractive Symposium. October 19, 2007.

Speaker - "Combined Keratorefractive Procedures as part of the Cataract and Refractive Surgery Update" and "Pros of Surface Ablation." American Academy of Ophthalmology, New Orleans. November 10-13, 2007.

Invited lecturer – "Advances and Challenges in Refractive Surgery" Grand Rounds, Weill Cornell Medical College, New York, NY. October 25, 2007.
Seymour Gostin Memorial Lectureship - "Current Status and future of Keratorefractive Surgery" Ophthalmology at the crossroads, Dallas, Texas. December 1, 2007.

Bodenheimer Memorial Lecture – "Wavefront-Guided Keratorefractive surgery: Advantages and Limitations." Wilmer Current Concepts Meeting. December 7, 2007

2008

Annual Everett L. Goar Lecture – "Monovision: The perfect solution for presbyopia." University of Texas. January 10-12, 2008

Corneal angiogenic privilege: The molecular basis of corneal clarity and avascularity. Advanced Topics in Vision Group. January 14, 2008.

Guest Speaker – "Femtosecond Laser in refractive surgery." Grand Rounds Yale & Ophthalmic Laser Surgical Society (OLSS), New York City, NY. January 17-18, 2008.

Instructor- "Advantages and Limitations of Custom Refractive Surgery Femtosecond Refractive and Corneal Surgery." Puerto Rico. February 22 – 24, 2008.

Guest speaker-"Angiogenic Privelege: The Molecular Basis of Corneal Clarity and Avascularity", XXVIII Annual Alamo City Ophthalmology Clinical Conference. March 7-8 2008.

Guest speaker-"Custom LASIK: Advantages and Limitations." Dallas Academy of Ophthalmology, University of Texas Southwestern Medical Center. March 27-28 2008.

Guest speaker-"Femtosecond and Excimer Laser Surgery: The Perfect Fir or a Marriage of Convenience?" 53rd Annual Clinical Conference Update in Clinical Ophthalmology. Kresge Eye Institute and Wayne State University School of Medicine. Detroit, Michigan. June 6, 2008.

Instructor- "Advantages, Limitations, and Management of Custom LASIK"; "Monovision as an alternative"; "Femtosecond Applications for Astigmatism". World Ophthalmology Congress 2008. Hong Kong, June 29-July 3, 2008.

Invited Speaker- “Custom LASIK: Advantages and Limitations of Understanding the Wavefront-guided Treatments”; “Femtosecond Laser Application in Anterior Segment Surgery The British Society for Refractive Surgery”, 15th Annual Conference.. Oxford, England July 5-6 2008.

Irving H. Leopold Lecturer-“Corneal Angiogenic Privilege: The Molecular Basis of Corneal Clarity and Avascularity After Corneal Surgery.. California. October 24, 2008.

2009 27th Anniversary Awards Symposium of the Alcon Research Institute: “Corneal Angiogenic Privilege: The Molecular Basis of Corneal Clarity and Avascularity After Corneal Surgery”. February 13-14, 2009

Invited Gold Medal Lecturer. Saudi Ophthalmology 2009 Symposium. Riyadh, Saudi Arabia. March 1-4, 2009.

Guest Speaker- “Corneal Angiogenic Privilege, Role of Matrix Metalloproteinases”. 113th Annual Meeting of the Japanese Ophthalmological Society. Tokyo, Japan. April 17, 2009

Speaker-“Pursuit of Happiness ARVO-AUPO workshop: Do you want to be a chair of ophtalmology”?.ARVO. Florida. May 3, 2009

Guest Speaker- “Advantages and Limitations of Wavefront-Guided LASIK; Advantages in Femtosecond Laser Surgery”. OOAA Meeting. Casey Eye Institute Alumni Day 2009. June 29, 2009

Speaker-“Quality of Vision after Refractive Surgery”. EUPO Course 2009, Cornea, Conjunctiva and Refractive Surgery. Amsterdam, The Netherlands, June 12-13, 2009

ARVO-NEI Symposium. NEI/FDA Use of Patient-Reported Outcomes in Medical Product Development Symposium. "What is Known and What Else Do We Need to Know About Patient-Reported Outcomes in Ophthalmology (Cataract and Refractive)". NIH, October 13, 2009.

2010 Victor T. Curtin Visiting Professor-“Surgical Management of Astigmatism Post Keratoplasty Astigmatism”. Bascom Palmer Eye Institute. Miami, Florida, February 18, 2010.

Invited Speaker-“Current Trends in Refractive Surgery”, “Management of Complicated Cases in Cornea and Refractive Surgery”. Case Western Reserve. Comprehensive Ophthalmology Conference. Cleveland, Ohio. April 23, 2010.

Invited Speaker-“Femtosecond Laser: Therapeutic Applications”. SFO. Paris, France. May 10, 2010

Invited Mead and Jakobiec lectures. Massachusetts Eye and Ear Infirmary.
Harvard Alumni Day. June 18-19, 2010

Invited Speaker and Moderator. Tear Film and Ocular Surface Meeting. Florence,
Italy. September 22-25

Invited Keynote and Guest Speaker. Asia Cornea Society Meeting, Japanese
Ophthalmological. "Cornea Avascularity and Angiogenic Privilege",
"Photokeratodesmos: a novel approach for sutureless corneal bonding",
"Femtosecond applications in corneal and refractive surgery". Kyoto, Japan.
November 29-30.

2011 Invited Keynote Speaker-"Wavefront-Guided Refractive Surgery: Advantages and
Limitations". International Military Refractive Surgery. San Antonio, Texas.
January 10-12, 2011.

Invited Guest Speaker-"Ten Pearls in Refractive Surgery for Beginners", "Dry
Eye Secondary to Eye Surgery", "Refractive Surgery: Present". Scaula Paulista
Cornea Meeting. Sao Paulo, Brazil. February 19-21.

Invited Guest and Keynote Speaker-"Astigmatism Management Post-
Keratoplasty", "Understanding Pentacam", "Rigid CL: Is it still an option?",
"Topo-Guided PRK with CXL, indications and precautions", "Femtosecond
Dovetail Penetrating Keratoplasty", "Grafts with IOL implantation techniques",
"Phakic IOL, be smart and be quick", "Avastin in Cornea and External Disease",
"Toughest cases 2010". 13th Kuwait International Ophthalmology Symposium,
Kuwait. April 16-18 2011.

Invited Keynote Speaker-Crano Lecture "Corneal Angiogenic Privilege",
"Wavefront-guided Refractive Surgery: Advantages and Limitations. University
of Pittsburgh Medical Center (UPMC), Eye Center. September 28, 2011.

Invited Speaker. Asia Cornea Society Meeting, Japanese Ophthalmological.
"Corneal Wound Healing after Refractive Surgery: Biological and Optical
Considerations and Therapeutic Applications". Kyoto, Japan. November 29-
December 2.

2012 Invited Keynote Speaker: Paton Medal Lecturer. 2012 Cullen Course
"Customized corneal laser refractive surgery: optical and biomechanics
limitations and therapeutic applications". Baylor College of Medicine, Texas, US.
February 25, 2012.

Invited Keynote Speaker: Gissur Petursson, M.D. Distinguished Lecture. 2012
Alumni Day. "Customized Corneal Laser Refractive Surgery: Optical and

Biomechanics Limitations and Therapeutic Applications”. University of Arkansas Medical Sciences, Jones Eye Institute, Arkansas USA. June 8, 2012.

Whitney G. Sampson Lecture. Contact Lens Association of Ophthalmologists at the American Academy of Ophthalmology, Chicago, IL. November 11, 2012.

2013 Flaum Eye Institute's Distinguished Visiting Professor. "Theoretical and Practical Applications of Corneal Asphericity Optimization and Wavefront-Guided Excimer Laser Surgery". University of Rochester. Rochester, NY, USA, February 16, 2013.

Invited Speaker. French Society of Ophthalmology and Tear Film Ocular Surface Society. "Surgery-Induced Dry Eye". Paris, France, May 14, 2013

Invited Speaker. UKISCRS and Royal College of Ophthalmologists. "Lasik complications – clinical pearls and management guidelines"; "25 Years of Progress in Refractive Surgery"; "Femtosecond Laser-Assisted Corneal Surgery: Scope and Limitations"; "Interstitial keratitis: managing the vascularised stroma". Liverpool, UK, May 20-22, 2013.

Invited Speaker. Lebanese Ophthalmological Society. "Custom and Q-based Refractive Surgery: Theoretical and Practical Applications"; "Corneal Neovascularization: Etiology, Pathogenesis and Therapeutic Applications"; "Understanding and Overcoming the Pitfalls of IOL Calculations after Refractive Surgery"; "Surgery-induced Dry Eye". Beirut, Lebanon, May 25, 2013.

Invited Speaker. European University Professors of Ophthalmology. "Quality of Vision after Refractive Surgery". Copenhagen, Denmark, June 6-7, 2013.

Invited Claes H. Dohlman Conference Address. "The Importance of Translational Research in Medicine and Ophthalmology". 7th International Conference on the Tear Film and Ocular Surface: Basic Science and Clinical Relevance. Taormina, Italy. September 20, 2013.

2014 Invited Guest Speaker. Milwaukee Ophthalmological Society. "Corneal Cross-linking, Wound Healing, and Biomechanical changes in Wavefront-guided and Q-based Keratorefractive". Milwaukee, WI, USA, January 28, 2014.

Invited Speaker. Cornea Conference. "Wavefront & asphericity based LASIK: Advantages and limitations"; "Laser treatment of mixed and compound astigmatism"; "Corneal crosslinking—epi-on versus epi-off". Fort Lauderdale, Florida, USA, March 27-29, 2014.

Invited Speaker. Scheie Eye Institute, University of Pennsylvania. "Corneal Angiogenic Privilege". Pennsylvania, USA, April 2-3, 2014.

PART III
Bibliography

Books (editor/ senior editor/ associate editor)

1. Azar DT. Refractive Surgery. Stamford, CT: Appleton & Lange-Simon and Schuster; 1997; *A multi-authored 48-chapter, 691-page textbook of Refractive Surgery covering the topics of terminology, indications, pharmacology, optics, biomechanics, incisional refractive surgery, PRK, LASIK, phakic IOLs, and combined refractive procedures.*
2. Azar DT, Steinert R., Stark WJ, editors. Excimer Laser Therapy: Phototherapeutic Keratectomy Baltimore, MD: Williams & Wilkins; 1997. *A multi-authored 214-page, 14-chapter book focusing on the theory and practice of using the excimer laser to treat corneal scars, dystrophies and PRK complications.*
3. Albert DM, Jakobiec FA; (Azar DT, and Gragoudas ES associate editors to FAJ). Principles and Practice of Ophthalmology Second Edition. Philadelphia, PA: Saunders; 1999. *A 6-volume, 422-chapter, 5578-page comprehensive textbook of Ophthalmology (Elsevier-Saunders, Philadelphia, 2007).*
4. Jakobiec FA, Azar DT, editors. Pediatric Ophthalmology; International Ophthalmology Clinics; Winter 1992. *A multi-authored publication covering various topics of Pediatric Ophthalmology – part of I.O.C. book series.*
5. Azar DT, editor. (Stark WJ, Azar NF, Pineda R, Yoo SH, associate editors). Intraocular Lenses in Cataract and Refractive Surgery. Philadelphia PA; Saunders; May 2001. *A multi-authored 343-page, 28-chapter comprehensive textbook on the contemporary knowledge of intraocular lenses (IOLs) with particular emphasis on IOL material and power calculations, cataract surgical applications, phakic multifocal and accommodating IOLs.*
6. Melki SA, Azar DT, editors. 101 Pearls in Refractive, Cataract, and Corneal Surgery. Thorofare, NJ: Slack; June 2001. *A multi-authored concise book covering practical aspects of anterior segment surgery.*
7. Azar DT, Koch DD, editors. LASIK: Fundamentals, Surgical Techniques, and Complications. New York, NY: Marcel Dekker; November 2002. *A multi-authored 506-page, 35-chapter book on LASIK stressing preoperative planning, computerized videokeratography, wavefront technology, microkeratomes, excimer lasers, nomograms, surgical techniques, complications, and the detection, etiology and management of LASIK complications.*
8. Tsubota K, Boxer-Wachler B, Azar DT, Koch DD, editors. Hyperopia and Presbyopia. New York, NY: Marcel Dekker; 2003.

A multi-authored 328-page, 48-chapter book delving into current, established and emerging techniques for the correction of hyperopia and presbyopia.

9. Foster CS, Azar DT, Dohlman CH, editors. Smolin and Thoft's The Cornea: Scientific Foundations and Clinical Practice, 4th Edition. Baltimore, MD: Lippincott Williams & Wilkins; 2005.
A multi-authored 1323-page, 83-chapter textbook covering basic (cell biology, physiology, biomicroscopy, and topography) clinical (infections, immunologic disease, ocular surface, metabolic diseases, trauma, dystrophies and degenerations, CLs) and surgical (corneal, conjunctival, scleral, transplantation and keratorefractive) topics in corneal, external disease and refractive surgery.
10. Azar DT, Camellin M, Yee R, editors. LASEK, PRK, and Excimer Laser Stromal Surface Ablation. New York, NY: Marcel Dekker; 2005.
A multi-authored 340-page, 30-chapter book covering theoretical considerations and practical aspects of surface ablation to correct refractive error (with special emphasis on LASEK, Epi-LASIK and PRK indications, surgical techniques and management of complications).
11. Melki SA, Azar DT, editors. 101 Pearls in Refractive, Cataract, and Corneal Surgery, 2nd Edition. Thorofare, NJ: Slack; 2006.
12. Azar DT, editor. (Gatinel D, Hoang-Xuan T, associate editors). Refractive Surgery, 2nd Edition. St. Louis, MO: Elsevier-Mosby, 2007. *A multi-authored 580-page, 45-chapter book covering theoretical considerations and practical aspects of refractive surgery, indications, surgical techniques and management of complications.*
13. Albert DM, Miller JW, editors, Azar DT, Blodi BA, associate editors. Albert and Jakobiec's Principles and Practice in Ophthalmology, 3rd Edition. Philadelphia, PA: Elsevier, 2008. *A 4-volume, 417-chapter, 5461-page comprehensive textbook of Ophthalmology (Elsevier-Saunders, Philadelphia, 2008).*
14. Alio JL, Azar DT editors. Management of Complications in Refractive Surgery. Springer-Verlag Berlin Heidelberg, 2008. *A multi-author comprehensive textbook of surgical management of complications of laser and cataract refractive surgery*
15. Azar DT, editor; BCSC 3. Clinical Optics, American Academy of Ophthalmology. San Francisco, CA; 2012. *Editor of the BCSC Optics book with new end-of-section and end-of-chapter problems. Board-type problems provided at the end of the book.*
16. Alio JL, Azar DT editors. Complicated Cases in Refractive Surgery. Springer-Verlag Berlin Heidelberg, in press.

Books (In preparation)

17. Whitcup Scott, Azar DT editors. Pharmacologic Therapy of Ocular Disease. Springer Heidelberg, in preparation.
18. Azar DT, editor. Refractive Surgery, 3rd Edition. St. Louis, MO: Elsevier-Mosby, in preparation.

Books (Section editor/Book Series)

1. Albert DM, Jakobiec FA; eds (**Azar DT, section co-editor: Section VII “Lasers in Ophthalmology”; section VIII “Conjunctiva, Cornea and Sclera”; Section X “Lens”; and Section XX “Optics”.**) Principles and Practice of Ophthalmology. Second Edition. Philadelphia, PA: Saunders; 1999 (Upcoming 3rd edition: Section editor of “Conjunctiva and Cornea”, “Refractive Surgery”; “Lens”, and “Optics”).
2. Yanoff M, Duker J, editors; (**Azar DT, section editor “Refractive Surgery”**) Ophthalmology. London: Mosby; 1999. Section editor for Second edition and upcoming third edition.
3. Yanoff M, Duker J, editors; (**Azar DT, section editor “Refractive Surgery”**) Ophthalmology Second Edition. St. Louis: Mosby; 2004.
4. Weiss J, editor; (**Azar DT, section editor “Refractive Surgery”**) BCSC 14. American Academy of Ophthalmology. San Francisco, CA; 2004-2008.
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