

CURRICULUM VITAE

Name: Emily Y. Chew
Place of Birth: Canton, China
Citizenship: United States
Marital Status: Married, three children

Education

1971-1972 University of British Columbia, Vancouver, B.C., Canada (1st year sciences)
1972-1973 University of Toronto, Canada (2nd year of arts and sciences)
1974-1977 University of Toronto, School of Medicine (6-year program post-high school)
1977-1978 Internship in Internal Medicine, University of Toronto
1978-1981 Residency in Ophthalmology, University of Toronto
1982-1983 Fellowships in Medical Retina & Genetics
Johns Hopkins University, Baltimore, (Irene Maumenee, MD, Arnall Patz, MD)
University of Nijmegen, Nijmegen, the Netherlands (August Deutman, MD)

Brief Chronology of Employment:

1983-1984 Lecturer, University of Toronto, Dept. of Ophthalmology
1985-1986 Assist. Professor, University of Toronto, Dept. of Ophthalmology
1987-1991 Visiting Scientist, Biometry & Epidemiology Program, NEI/NIH
1991-now Medical Officer, Division of Biometry & Epidemiology, NEI/NIH
2000-2017 Deputy Director, Division of Epidemiology and Clinical Applications, NEI.
2008-now Deputy Clinical Director, National Eye Institute
2009-now Chief of Clinical Trials Branch, National Eye Institute
2017-now Director, Division of Epidemiology and Clinical Applications, NEI/NIH

Honors and Other Scientific Recognition:

1981 Research Prize, Ophthalmology, U. of Toronto
1982 E.A. Baker Scholarship for Advanced Training in Ophthalmology
1986 Best Teacher's Award, Ophthalmology, U. of Toronto
1996 American Academy of Ophthalmology *Honors* Award
2001 NEI Director's Award (Achievements in the Age-Related Eye Disease Study)
2001 NEI Director's Award (Compassion in patient care)
2003 NIH Director's Award for Excellence in Mentoring
2004 Award of Merit in Retina Research, Schepens Lecture (Retina Society) shared with F.L. Ferris)
2004 American Academy of Ophthalmology *Senior Honors* Award
2005 American Academy of Ophthalmology *Secretariat* Award
2005 American Society of Retinal Specialists Honors Award
2006 J. Donald Gass Medal (Macula Society)
2008 Alcon Research Institute Award (\$100,000 Shared with F. Ferris)
2008 NIH Director's Award for development of dbGaP, public access to AREDS data (Including genetic and phenotypic data)
2008 NEI Director's Award (Recruitment in AREDS2 Study)

2009	Prevention of Blindness, Washington DC, Metropolitan Chapter Professional Service Award
2009	ARVO Fellow (Silver)
2009	NIH Director's Award for Excellence in Mentoring
2009	Founders Award (American Society of Retinal Specialists)
2009	Award of Merit for Scientific Achievements-Asian & Pacific Islander American Organization /National Institutes of Health
2011	NIH Directors' Award for dbGaP, photographic access
2012	American Academy of Ophthalmology <i>Secretariat</i> Award
2012	American Academy of Ophthalmology <i>Honored Guest</i> Award
2013	American Academy of Ophthalmology <i>Lifetime Achievement</i> Award
2013	NIH (National Heart Lung and Blood Institute) for Diversity
2014	Helen Keller Prize in Vision Research (Shared with F. Ferris)
2014	Bressler Award for Vision Research (\$50,000)
2015	Prix Soubrane de la Recherche en Ophtalmologie (Macula of Paris, France)
2015	ARVO Fellow (Gold)
2016	Ingrid Kreissig Award (€10,000)
2017	Academia Ophthalmologica internationalis, Chair No. 26
2017	American Medical Association: Inspirational Physician Recognition
2017	Suzanne Véronneau-Troutman Award (Women In Ophthalmology)
2018	Lawrence Singerman Medal (Macula Society) for Outstanding contributions to the advancement of science through retinal clinical trials.
2018	ARVO-Distinguished Service Award
2019	NIH-Great Teacher Series (Feb. 13, 2019)
2019	Leslie Dana Gold Medal (St. Louis Society for the Blind and Visually Impaired) March 29, 2019
2019	Jackson Memorial Lecturer (American Academy of Ophthalmology, San Francisco, (Oct. 13, 2019)
2019	Pioneer Award for advancement in Research in Age-Related Macular Degeneration and Diabetic Retinopathy—Chinese American Ophthalmological Society (CAOS)
2019	Astute Clinician Lecture, National Institutes of Health (Dec.11, 2019)

Named Lectureships

1998	Walter Wright Lecture (U. of Toronto)
2000	Seslen Endowed Lectureship (Washington University, St. Louis)
2000	Deborah Iverson Lectureship (Kresge Eye Institute)
2001	E.A. Baker Foundation for the Prevention of Blindness Lecture, Toronto, Canadian Ophthalmological Society
2004	Lorand Johnson Lectureship, Case Western Reserve University School of Medicine and the Cleveland Ophthalmological Society,
2005	Squires Lectureship, U. of Toronto
2006	Anwar Shah Lecture, St. Louis University
2007	Stanford Faculty Lectureship (Stanford University, Palo Alto, CA)
2007	Krill Lecture (U. of Chicago)
2009	Kane Lecture (Northwestern University)
2010	Ollendorf Lecture (Columbia University, NYC)
2010	E. A. Baker Foundation Lecture, Quebec City, Canadian Ophthal. Society
2012	Caygill Lecture University of California San Francisco
2013	Sean Murphy Lecture (McGill University) Montreal, Canada

2014	Knobloch Lecture (U. of Minnesota), Minneapolis, MN
2014	Clement McCulloch Lecture (U. of Toronto), Toronto, Canada
2016	Ingrid Kreissig Lecture (Copenhagen, Denmark for Euretina)
2016	Matthew D. Davis Lecture (U. of Wisconsin, Madison, WI)
2017	Keith Green Lecture, U. of Georgia, Augusta, GE
2019	Bobier Distinguished Lecture, Waterloo, ON, Canada
2019	AAO Jackson Memorial Lecture (San Francisco, CA)

Professional Qualifications:

1978	Licentiate of Medical Council of Canada
1981	Fellow of the Royal College of Physicians and Surgeons (Canada)
1982	Diplomate of American Board of Ophthalmology
1986	FLEX (State of Michigan)

Professional Society Memberships:

1979-now	Association for Research in Vision and Ophthalmology (<u>President</u> 2016-2017, served on awards committee, ethics committee, and was board of trustee member liaison for a number of committees)
1982-now	American Academy of Ophthalmology
1982-now	Wilmer Residents Association
1987-now	Macula Society (<u>President</u> 2011-2012, served on the nominating committee, research grants committee)
1993-now	Retina Society
1994-now	American Board of Ophthalmology
2004-now	American Society of Retinal Specialists
2005-now	American Ophthalmological Society (<u>President</u> 2019-2020, served on new member committee, council, and editorial committee)

Editorial Activities:

Editor in chief:

2011-2018	Transactions of the American Ophthalmological Society
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Editorial Board:

1998-2014	Investigative Ophthalmology & Visual Science
2000-now	Retina
2013-now	Ophthalmology
2015-now	Member of the Executive Committee of the Editorial board on Ophthalmology

Review for:	American Journal of Ophthalmology
	Archives of Ophthalmology (JAMA Ophthalmology)
	Ophthalmology
	British Medicine Journal
	Diabetes Care
	Diabetes
	JAMA
	Lancet
	PNAS

Nature
NEJM

Other Scientific Activities:

Data and Safety Monitoring Committees

1989-2016 VA Cooperative Study #456 "Glycemic Control and Complications in Type 2 Diabetes"
2014-2018 Kalvista trial of treatment of diabetic macular edema
2014-2016 Stem cell therapy for retinitis pigmentosa (Henry Klassen, UC Irvine)
2017-now Member of the Steering committee for the IRIS data registry for the American Academy of Ophthalmology
2006-2011 Neovista trials of radiation for age-related macular degeneration (2006 to 2011)

Chair:

1989-2005 Preferred Practice Plans for Retina for the American Academy of Ophthalmology
2004-2006 Pre-Academy RETINA Subspecialty Day, Member 2002-2006 (member 2002-2006)

Member:

2004 -2008 Retina Knowledge Base Panel for the American Academy of Ophthalmology

Specific Research Activities:

1987- 2004 Operations Committee on the analyses of the Early Treatment Diabetic Retinopathy (ETDRS) Study, *Focus on diabetic retinopathy*
1990-2005 Operations Committee and Executive Committee of the Age-Related Eye Disease Study (AREDS), *Focus on age-related macular degeneration and cataract, clinical trial and natural history study.*
1999-2015 Executive Committee of the Actions to Control Cardiovascular Risk in Diabetes (ACCORD) and Chair of the ACCORD Eye Study, *Focus on diabetic retinopathy*
2004-2010 Executive Committee of the Familial Investigations in Nephropathy in Diabetes (FIND), *Focus on genetics of diabetic retinopathy*
2004-now Chair, Age-Related Eye Disease Study 2 (AREDS2), *Focus on age-related macular degeneration and cataract (Clinical Trial)*
2005-now Director of Clinical Program in the International Macular Telangiectasia Project, *Focus on macular telangiectasia (natural history and clinical trial)*

NIH Committees:

1989-1994: Member of the NEI Institutional Review Board (IRB)
2000-2002 Women Scientist Advisor to the NIH Committee
Chair, Women Scientist Committee at NEI
2003-now Complications of Diabetes Working Group
2004-2005 Informed Consent Steering Committee at the Clinical Center, NIH
2005 Search Committee for the Branch Chief of Ocular Genetics Branch
2005-now Clinical Research Training Program (CRTP) Committee and Mentor
2006 Committee for: Trans-NIH Intramural Research Initiatives
2010-2014 Central Committee for Tenure at NIH

2001-now	Mentor to Howard Hughes Medical Institute Scholars program at NIH (now Medical Research Scholar Program)
2004–2012	Mentor to Clinical Research Training Program at NIH (now Medical Research Scholar Program)
2012-now	Member of the Executive Advisory Board of the Medical Research Scholars Program at NIH as well as both a tutor and a mentor to students
2012-2013	Search committee for Neurosurgeon for NINDS
2013-now	Committee to promote the role Staff Clinician at NIH
2013-now	Federal Working Group on Dietary Supplement
2018	Search Committee for Neuroscientist for the LSR/NEI
2020	Search for Director of Division of Intramural Population Health Research, NICHD
2020-2023	Central Tenure Committee: Epidemiology/Biometry Review Panel (EBRP)
2020-2023	NIH Equity Committee

Other Service Committees:

2013 to now	ALCON Research Institute Executive Committee
2013-now	Thome Grant Review (Funding for AMD research) Chair (2016 to now)
2014-2017	ARVO Awards Committee
2015 to now	Bressler Award Committee
2015-to now	Retina Society Awards Committee
2017 to now	Helen Keller Award Committee
2018-now	Co-Chair of the Women's Leadership Development Program for ARVO

Mentoring:

2002-2017:	Director of the Medical Retina Fellowship
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Mentored Medical Retina Fellows:

2002-2003	<i>Sunil Srivastava, MD.</i> (from Emory U. residency), followed by vitreoretinal fellowship at Duke University, Assistant Professor, Emory University, Atlanta GA, currently Associate professor at Cleveland Clinic.
2003–2005	<i>Sam Dahr, MD.</i> University of Cincinnati for surgical retina fellowship, followed by private practice and part time at U. of Oklahoma, teaching uveitis.
2003-2005	<i>Shree Kurup, MD</i> (combined uveitis/medical retina) Assistant Professor at Wake Forest, Department of Ophthalmology, Retina Division
2005-2007	<i>Wai Wong, MD, PhD.</i> (from Scheie Eye Institute, currently NEI retina faculty and tenured investigator)
2005-2006	<i>Guy Jirawuthivoravong, MD</i> (from UCLA) currently working at Kaiser Permanente in Los Angeles, California
2006-2007	<i>Catherine Meyerle, MD.</i> (from Yale University) , NEI Retina faculty, currently faculty at Wilmer Eye Institute, Johns Hopkins University.
2006-2008	<i>Steve Yeh, MD</i> (Combined medical retina/uveitis. from Baylor University) ty as Assistant Professor at Emory University
2007-2009	<i>Catherine Cukras, MD, PhD.</i> (from Scheie Eye Institute) currently NEI Retina faculty
2007-2009	<i>Farzin Forooghian, MD</i> (from U. of Toronto), Assistant Professor, Mount Sinai School of Medicine, Dept of Ophthalmology, New York City, NY, followed by private practice and faculty at the University of British Columbia, Vancouver, BC
2007-2009	<i>Lisa Faia, MD</i> (from Mayo Clinic, combined medical retina/uveitis fellowship) Surgical retina fellowship at Beaumont, Michigan, Currently Faculty at Beaumont, Michigan.
2009-2011	<i>Annal (Dhanu)Meleth, MD</i> (from George Washington University). Surgical retinal

Fellowship at U. of Texas, Houston now in private practice in Atlanta, GA but participates as PI in DRCR.net.

2009-2011 *Nupura Krishnadev, MD.* (from U. of Toronto,) Assistant Professor, U. of Toronto

2009-2011 *Theresa Larson, MD* (from Mayo Clinic) Combined uveitis/medical retina fellowship, Assistant Professor, U. of Oklahoma

2010-2012 *Wendy Smith, MD* (combined uveitis/medical retina) from Ohio State University Residency. Assistant Professor, Mayo Clinic in July 2012

2011-2013 *Naima Jacobs-El, MD* from Howard University (Residency) Joined the Device Division of the FDA and subsequently the VA in Tampa, FL.

2011-2013 *Benjamin Nicholson, MD* from Cleveland Clinic (Residency)-Surgical residency in vitreoretinal surgery, Mayo Clinic, Rochester, MN, in private practice in Michigan

2011-2013 *Monica Dalal, MD* (combined uveitis/medical retina) from George Washington University residency-Assistant Professor, George Washington University faculty.

2013-2014 *Mary Beth Aronow, MD* (medical retina) from Cleveland Clinic (residency), faculty at Wilmer Eye Institute, Johns Hopkins University followed by faculty at the Massachusetts Eye and Ear Infirmary.

2013-2015 *David Valent, OD* (medical retina), from Cincinnati, in private practice in Portland, OR

2013-2014 *Nirali Bhatt, MD* (combined uveitis/medical retina) from U. of Maryland, faculty at Scheie Eye institute, U. of Pennsylvania, Philadelphia

2013-2014 *William Tucker, MB* (combined uveitis/medical retina) from London, UK, King's College, London now faculty at Moorfields Eye Hospital, London, UK

2014-2015 *Jesia Hassan, MD* (medical retina) from McGill U, Montreal, Faculty at U. of Montreal,

2014-2015 *Padmina (Mini) Kaushal, MD* (uveitis/medical retina) from Chicago, on staff at Wheaton Eye Clinic under Ruth Williams.

2015-2016 *Aman Sharma, MD* (medical retina) from U of Buffalo. Staff at VA hospital in Orlando

2015-2016 *Karen Armbrust, MD, PhD.* (combined uveitis/medical retina) from U. of Minnesota, currently on staff at the VA at U. of Minnesota

2015-2017 *Akshar Abbott, MD* (medical retina) from U. of Pittsburgh, on staff at the VA at U. of Minnesota

2016-2017 *Tiranan Keenan, MD, PhD* (Medical Retina) from U. of Manchester, currently on staff at NEI as staff clinician

2016-2017 *Shilpa Kodati, MD* (uveitis/medical retina) from U. of Pittsburgh, at Baylor for surgical retina training, currently on staff at NEI as staff clinician for the Laboratory of Immunology.

2016-2017 *Sapna Gangaputra, MD, PhD* (uveitis/medical retina) from U. of Wisconsin, on faculty at the U. of Vanderbilt

2017-2018 *Ramiro Maldonado, MD* (medical retina/uveitis) from Duke University, faculty at U. of Lexington, Kentucky

2017-2018 *Panos Christakis, MD* (medial retina/uveitis) from U. of Toronto, faculty at U. of Toronto

2017-2019 *Ian Thompson, MD,* (combined uveitis/medical retina) from Vanderbilt University, vitreoretinal fellowship

2017-2018 *Ben Chaoum, MD* (combined uveitis/medical retina) from U. of Iowa, faculty at Johns Hopkins University (Wilmer Eye Institute)

2018-2019 *Munir Iqbal, MD* (Medical retina/uveitis) from U. of Western Ontario, vitreoretinal surgery fellowship in Vancouver, BC, Canada

2018-2020 *Christopher Hwang, MD, PhD* (Medical Retina/Uveitis) (Scheie Eye Institute)

2018-2019 *Alex Kaplan MD* (combined uveitis/medical retina) from U. of Toronto, currently

on faculty at the U. of Toronto
 2019-2020 *Alisa Thavikulwat, MD* (medical retina/Uveitis) (U. of Illinois at Chicago (UIC))
 2019-2020 *Henry Lin, MD, PhD* (Combined uveitis/medical retina) U. of Buffalo
 2019-2020 *David Dao, MD* (Combined uveitis/medical retina) U. of Maryland

Medical Students_(listed are students who spend one year at NEI under my mentorship; others come for shorter periods of time for clinical electives or summer programs):

Howard Hughes Scholars at NIH (ended in 2012)

2002-2003 *Michael Cusick, MD* (Ophthalmology Resident at Wilmer Eye Institute, Johns Hopkins Medical Institutes, vitreoretinal Fellow at Duke University). Currently in private practice in Pennsylvania.and moving to U. of Virginia (Charlottesville, VA) as faculty. Assoc professor.
 2003-2004 *Annal (Dhanu) Meleth, MD* (Ophthalmology Resident at George Washington University, Medical retina fellowship at NEI, Baylor for vitreoretinal fellowship)-private practice in Atlanta and an active member of the DRCR.net.
 2005-2006 *Nieraj Jain* (from Duke University, Duke ophthalmology residency), on Staff at Emory University
 2006-2007 *Stephanie Ajudua, MD* (from Brown U, now at Brown U. in Internal Medicine.
 2007-2008 *Jung Eun Lee, MD* (from Duke University) Radiology residency
 2008-2009 *Audree Condren* (from U. of Oklahoma, Currently at NIH) Residency in general surgery at Mt. Sinai School of Medicine, NYC
 2010-2011 *Maanasa Indaram* (Duke University) Matched to U. of California San Francisco for ophthalmology residency. Currently on staff at UCSF faculty.
 2011-2012 *Grace Shih* (Vanderbelt University), matched to USC, Los Angeles, CA

Clinical Research Training Program (CRTP) at NIH:_(program ended in 2013)

2004-2005 *Julie Rosenthal* (from the University of Pennsylvania, Wills Eye Hospital Residency in Ophthalmology, vitreoretinal fellowship at Casey, Portland, Oregon. Joined U. of Michigan for their clinical trials unit.
 2005-2006 *Lynn Huang* (from UCLA Medical School, Lennox Ophthalmology Residency, surgical retina fellowship at Mass Eye and Ear currently), Faculty at Loma Linda
 2005-2006 *Lyndon Lee* (from U. of Alabama Medical School, Emory Ophthalmology Residency)
 2006-2007 *Amit Vora* (UMDNJ-Robert Wood Johnson Medical School, currently Beaumont, Detroit, Ophthalmology Residency program)
 2007-2008 *Monica Agarwal* (Boston University) Residency in Radiology
 2008-2009 *Pradeep Mettu* (U. of Kentucky,) Duke Residency in Ophthalmology, Fellowship in Oculoplastics at Mayo Clinic.
 2009-2010 *Euna Koo* (U. of Florida) UCSF residency in Ophthalmology, currently on staff Stanford University faculty at the Byers' eye clinic as pediatric ophthalmologist
 2009-2010 *Masaum Damani* (UCLA) Scheie Eye Institute Residency in Ophthalmology
 2009-2010 *Jessica Chang* (Duke medical school) matched to Wilmer Residency in Ophthalmology, Fellowship in Oculoplastics (Wilmer)
 2010-2011 *Brian Toy* (UCSF) Matched to Stanford for Ophthalmology residency, on staff at USC.as vitreoretinal surgeon on K award.
 2011-2012 *Mei Zhou* (U. of Chicago) University of Illinois, Chicago for Ophthalmology Residency
 2012-2013 *Lauren Doss* (UCSF) matched to New York College residency
 2012-2013 *Tanya Glaser* (UCSF) matched ophthalmology residency at Duke University, chief resident of Duke residency.

Post-Bac IRTA

Nov. 2010- June 2013

Divya Nigams, BSc , PhD program at American University

Medical Research Scholar Program (replaced Howard Hughes Scholars and the CRTP)

2013-2014 *Shaza Al-Houlou* (University of Michigan) residency U. of Nebraska
2014-2015 *Alisa Thavikulwat* (University of Rochester) ophthalmology residency a UIC (University of Illinois) at Chicago, Eye and Ear Infirmary
2015-2016 *Alanna Tisdale* (Brown University), ophthalmology residency in Boston Univ.
2015-2016 *Michael Simmons* (U. of Arizona), ophthalmology residency at Baylor, Houston,
2016-2017 *Chandana Papudesu* (U. of Georgia, Augusta)
2017-2018 *Jeannette Yu* (Duke U), ophthalmology residency in UCSF, San Francisco, CA
2017-2018 *Shazia Dharsi* (Hopkins University), ophthalmology residency at Wilmer, Johns Hopkins
2018-2019 *Debora Lee* (UC Irvine)
2020-2021 *David Peprah* (Yale University)

Post-MD

2015-2016 *Sarah B Sunshine*, MD (Johns Hopkins University) Ophthalmology residency in Northwestern University, Chicago, IL, Faculty at University of Maryland
2016-2018 *Freekje van Asten*, MD, PhD (U. of Nijmegen, the Netherlands), currently a resident at the RADBOUD, Nijmegen, the Netherlands.

Publications

1. [Prospective phenotyping of long-term survivors of generalized arterial calcification of infancy \(GACI\).](#) Ferreira CR, Hackbarth ME, Ziegler SG, Pan KS, Roberts MS, Rosing DR, Whelpley MS, Bryant JC, Macnamara EF, Wang S, Müller K, Hartley IR, **Chew EY**, Corden TE, Jacobsen CM, Holm IA, Rutsch F, Dikoglu E, Chen MY, Mughal MZ, Levine MA, Gafni RI, Gahl WA. *Genet Med.* 2020 Oct 2. doi: 10.1038/s41436-020-00983-0. Online ahead of print. PMID: 3300504
2. [Predicting risk of late age-related macular degeneration using deep learning.](#) Peng Y, Keenan TD, Chen Q, Agrón E, Allot A, Wong WT, **Chew EY**, Lu Z. *NPJ Digit Med.* 2020 Aug 27;3:111. doi: 10.1038/s41746-020-00317-z. eCollection 2020. PMID: 32904246
3. [Dietary nutrient intake and progression to late age-related macular degeneration in the Age-Related Eye Disease Studies 1 and 2.](#) Agrón E, Mares J, Clemons TE, Swaroop A, **Chew EY**, Keenan TDL; AREDS and AREDS2 Research Groups. *Ophthalmology.* 2020 Aug 25:S0161-6420(20)30836-8. doi: 10.1016/j.ophtha.2020.08.018. Online ahead of print. PMID: 32858063
4. [Macular Thickness in Intermediate Age-Related Macular Degeneration Is Influenced by Disease Severity and Subretinal Drusenoid Deposit Presence.](#) Chiang TT, Keenan TD, Agrón E, Liao J, Klein B, **Chew EY**, Cukras CA, Wong WT. *Invest Ophthalmol Vis Sci.* 2020 Jun 3;61(6):59. doi: 10.1167/iovs.61.6.59. PMID: 32602904
5. [Retinal Specialist versus Artificial Intelligence Detection of Retinal Fluid from OCT: Age-Related Eye Disease Study 2: 10-Year Follow-On Study.](#) Keenan TDL, Clemons TE, Domalpally A, Elman MJ,

- Havilio M, Agrón E, Benyamini G, **Chew EY**. *Ophthalmology*. 2020 Jun 27:S0161-6420(20)30580-7. doi: 10.1016/j.ophtha.2020.06.038. Online ahead of print.PMID: 3259895
6. [Macular Telangiectasia Type 2: Visual Acuity, Disease End Stage, and the MacTel Area: MacTel Project Report Number 8.](#) Heeren TFC, **Chew EY**, Clemons T, Fruttiger M, Balaskas K, Schwartz R, Egan CA, Charbel Issa P; MacTel Study Group. *Ophthalmology*. 2020 Apr 21:S0161-6420(20)30343-2. doi: 10.1016/j.ophtha.2020.03.040. Online ahead of print.PMID: 32586743
 7. [Age-related Macular Degeneration: Nutrition, Genes and Deep Learning-The LXXVI Edward Jackson Memorial Lecture.](#) **Chew EY**. *Am J Ophthalmol*. 2020 Jun 20:S0002-9394(20)30284-1. doi: 10.1016/j.ajo.2020.05.042. Online ahead of print.PMID: 32574780
 8. [Investigate Oral Zinc as a Prophylactic Treatment for Those at Risk for COVID-19.](#) McPherson SW, Keunen JE, Bird AC, **Chew EY**, van Kuijk FJ. *Am J Ophthalmol*. 2020 May 26:S0002-9394(20)30213-0. doi: 10.1016/j.ajo.2020.04.028. Online ahead of print.PMID: 32505362
 9. [Deep learning automated detection of reticular pseudodrusen from fundus autofluorescence images or color fundus photographs in AREDS2.](#) Keenan TD, Chen Q, Peng Y, Domalpally A, Agrón E, Hwang CK, Thavikulwat AT, Lee DH, Li D, Wong WT, Lu Z, **Chew EY**. *Ophthalmology*. 2020 May 21:S0161-6420(20)30479-6. doi: 10.1016/j.ophtha.2020.05.036. Online ahead of print.PMID: 3244704
 10. [Adherence to the Mediterranean diet and progression to late age-related macular degeneration in the Age-Related Eye Disease Studies 1 and 2.](#) Keenan TD, Agrón E, Mares J, Clemons TE, van Asten F, Swaroop A, **Chew EY**; AREDS and AREDS2 Research Groups. *Ophthalmology*. 2020 Apr 26. pii: S0161-6420(20)30407-3. doi: 10.1016/j.ophtha.2020.04.030. [Epub ahead of print] PMID:32348832
 11. [Erratum. Multiethnic Genome-Wide Association Study of Diabetic Retinopathy Using Liability Threshold Modeling of Duration of Diabetes and Glycemic Control.](#) *Diabetes* 2019;68:441-456. Pollack S, Igo RP Jr, Jensen RA, Christiansen M, Li X, Cheng CY, Ng MCY, Smith AV, Rossin EJ, Segrè AV, Davoudi S, Tan GS, Ida Chen YD, Kuo JZ, Dimitrov LM, Stanwyck LK, Meng W, Hosseini SM, Imamura M, Noursome D, Kim J, Hai Y, Jia Y, Ahn J, Leong A, Shah K, Park KH, Guo X, Ipp E, Taylor KD, Adler SG, Sedor JR, Freedman BI; Family Investigation of Nephropathy and Diabetes-Eye Research Group, DCCT/EDIC Research Group, Lee IT, Sheu WH, Kubo M, Takahashi A, Hadjadj S, Marre M, Tregouet DA, McKean-Cowdin R, Varma R, McCarthy MI, Groop L, Ahlqvist E, Lyssenko V, Agardh E, Morris A, Doney ASF, Colhoun HM, Toppila I, Sandholm N, Groop PH, Maeda S, Hanis CL, Penman A, Chen CJ, Hancock H, Mitchell P, Craig JE, **Chew EY**, Paterson AD, Grassi MA, Palmer C, Bowden DW, Yaspan BL, Siscovick D, Cotch MF, Wang JJ, Burdon KP, Wong TY, Klein BEK, Klein R, Rotter JI, Iyengar SK, Price AL, Sobrin L. *Diabetes*. 2020 Apr 27. pii: db20er06a. doi: 10.2337/db20-er06a. [Epub ahead of print] No abstract available.PMID:32341040
 12. [Adherence to a Mediterranean diet and cognitive function in the Age-Related Eye Disease Studies 1 & 2.](#) Keenan TD, Agrón E, Mares JA, Clemons TE, van Asten F, Swaroop A, **Chew EY**; AREDS and AREDS2 Research Groups. *Alzheimers Dement*. 2020 Apr 13. doi: 10.1002/alz.12077. [Epub ahead of print] PMID: 32285590
 13. [Deep-learning-based Prediction of Late Age-Related Macular Degeneration Progression.](#)

Yan Q, Weeks DE, Xin H, Swaroop A, **Chew EY**, Huang H, Ding Y, Chen W.
Nat Mach Intell. 2020 Feb;2(2):141-150. doi: 10.1038/s42256-020-0154-9. Epub 2020 Feb 14. PMID:32285025

14. [Association of 2-Year Progression Along the AREDS AMD Scale and Development of Late Age-Related Macular Degeneration or Loss of Visual Acuity: AREDS Report 22.](#) Vitale S, Agrón E, Clemons TE, Keenan TDL, Domalpally A, Danis RP Jr, **Chew EY**. JAMA Ophthalmol. 2020 Apr 9. doi: 10.1001/jamaophthalmol.2020.0824. [Epub ahead of print] PMID:32271358
15. [Family-based exome sequencing identifies rare coding variants in age-related macular degeneration.](#) Ratnapriya R, Acar IE, Geerlings MJ, Branham K, Kwong A, Saksens NTM, Pauper M, Corominas J, Kwicklis M, Zipprer D, Starostik MR, Othman M, Yashar B, Abecasis GR, **Chew EY**, Ferrington DA, Hoyng CB, Swaroop A, Hollander AI. Hum Mol Genet. 2020 Apr 3. pii: ddaa057. doi: 10.1093/hmg/ddaa057. [Epub ahead of print] PMID:32246154
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Book Chapters

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Presentations

Numerous presentations were made at the following annual meetings and these are not individually listed:

ARVO (Association for Research in Vision and Ophthalmology)
American Academy of Ophthalmology (and the Retina Pre-academy
Subspecialty Day courses)
Macula Society
Retina Society
American Society of Retinal Specialists
Atlantic Fluorescein Angiography Club (New York, Philadelphia, Baltimore)
Endocrine Board Review: A review of Endocrinology: Diagnosis and Treatment
(sponsored by the Foundation for Advanced Education in Sciences, Inc. at the
NIH)
Beckman Age-related Macular Degeneration Working Group
American Ophthalmological Society

Invited Speaker:

09/26/95	International Symposium on Ocular Circulation and Neovascularization Budapest, Hungary
04/16/97	Association for Macular Diseases Scheie Eye Institute, Philadelphia, PA
05/11/97	"Age-related Macular Degeneration and Nutritional Supplements", Toronto Society of Ophthalmologists, Toronto, Ontario, Canada
06/23/97	"Diabetic retinopathy during Pregnancy"-Symposium on Complications Related to Pregnancy in Diabetes American Diabetes Association, Boston, MA
10/17/97	Diabetic Retinopathy, Vein Occlusion, and advanced Vitreoretinal Surgery Wilmer Eye Institute, Johns Hopkins
11/17/98	International Symposium on Age-Related Macular Degeneration University of Creteil, Paris, France
12/45/98	Walter Wright Lecture, Visiting Speaker of the Royal College of Physicians and Surgeons of Canada Region 3 University of Toronto, Toronto, Ontario, Canada
03/13/99	Diabetic Retinopathy Update-Scheie Eye Institute Philadelphia, PA.
06/06/99	Ocular Manifestations of Von Hippel Lindau Disease Emory University, Atlanta, GA
10/01/99	"What's New in Diabetic Retinopathy and Venous Occlusion Disease" Wilmer Eye Institute, Johns Hopkins University, MD
10/6-8/99	Review of Endocrinology: Diagnosis and Treatment (Review course for Endocrine Board Exams), Bethesda, MD
10/08/99	University of Maryland: "Understanding Retina Surgery: for the General Ophthalmologists and Eye Care Specialists Baltimore, MD
10/14/99	Mayo Clinic, Grand Rounds and Teaching rounds for residents Mayo Clinic, Rochester, MN
11/13/99	Symposium on Aging Retina and Early Degeneration at the Schepens Eye Research Institute, Boston, MA
03/10/00	University of Ottawa, Grand Rounds Ottawa, Ontario, Canada

04/03/00	Joslin Institute, Grand Rounds Boston, MA
05/17/00	George Washington University, Dept. of Ophthalmology Grand Rounds Washington, D.C.
7/22/00	International Symposium on Von Hippel Lindau Disease Mayo Clinic, Rochester, MN
9/16/00	Seslen Endowed Lectureship, "Diabetic retinopathy studies" Washington University, Dept. of Ophthalmology St. Louis, MO
10/13/00	Canadian Diabetes Association, Microvascular complications of diabetes Halifax, Nova Scotia, Canada
11/08/00	Kresge Eye Institute Deborah Iverson, M.D., Endowed Lectureship in Ophthalmology Detroit, MI
04/19/01	School of Hygiene and Public Health, "Outcome Measurements for Diabetic Retinopathy" Johns Hopkins University, Baltimore, MD
6/23/01	Canadian Ophthalmological Society "E.A. Baker Foundation for the Prevention of Blindness Lecture" Toronto, Ontario, Canada
2/27/02	American Diabetes Association, "Clinical Management of Diabetic Retinopathy" Chicago, IL
4/10/02	Dalhousie University, Department of Ophthalmology Halifax, Nova Scotia, Canada
11/02/02	The Chicago Curriculum in Ophthalmology Visiting Professor – "Review of Recent NIH Sponsored Clinical Trials" Chicago, IL
04/07/03	Rounds at Moorfields Eye Hospital, London England "AREDS Update"
04/09/03	Royal Society of Medicine, London, England "Epidemiology of Diabetic Retinopathy "
04/18/03	Japanese Ophthalmological Society, Fukuoka, Japan "Results of the Age-Related Eye Disease Study"
05/22/03	University of British Columbia Vancouver, B.C., Canada Research Day: Visiting Professor: "Results of the AREDS"

06/07/03	University of Washington, Department of Ophthalmology Seattle, WA Visiting Professor – “Results of AREDS”, “Clinical Trials in Diabetic Retinopathy”
09/22/03	Michaelson Symposium on Ocular Circulation Paris, France “AREDS Update”
01/06/2004	Gordon Conference on Carotenoids Ventura, CA “Results of the Age-Related Eye Disease Study: Update of Nutritional Risk Factors Analyses”
02/13/2004	George Washington University, Washington D.C. Visiting Professor “Epidemiology... Age-Related Macular Degeneration and Nutrition”
04/13/2004	Lorand Johnson Lectureship Case Western Reserve University School of Medicine and the Cleveland Ophthalmological Society, Cleveland, OH “Age-Related Macular Degeneration and Nutrition” & “Von Hippel Lindau Disease, Clinical and Genetic Investigations”
04/17/2004	The Optometric Retina Society Boston, MA “Treatment of Atrophic Age-Related Macular Degeneration”
05/25/2004	Duke University Rounds, Raleigh, NC “Updates on the Age-Related Eye Disease Study”
06/25/2004	Von Hippel Lindau Disease Alliance, Whistler, British Columbia, Canada “Ocular Manifestations of VHL: the diagnosis and therapy”
10/02/2004	Schepens Lecture, Retina Society Meeting, Baltimore, MD “Nutrition and AMD: Design of a New Supplementation Trial”
03/09/2005	Massachusetts Eye and Ear Infirmary, Boston, MA, Visiting Professor “Updates on the Age-Related Eye Disease Study”
03/11/2005	Uniformed Health Services/Georgetown University/George Washington University Grand Rounds “The use of the AREDS formulation”
04/29/2005	Cleveland Clinic Retina Summit, Cleveland, OH “Nutrition and AMD” and “Medical Management of Diabetic Retinopathy”
07/02/2005	Oxford Ophthalmological Congress, Oxford, UK “Nutritional Supplements: What should we be telling our patients?”

07/08/2005 Diabetic Retinopathy 2005, Focus on Diabetic Macular Edema, Madison, Wisconsin. "Impact of the UKPDS on ophthalmologists", "Results of the DCCT/EDIC Study", "Diode laser for diabetic macular edema."

11/04/2005 Yale University, New Haven, Connecticut. Visiting Professor, Department of Ophthalmology, "Age-Related Eye Disease Study, I and II"

11/09/2005 Squires Club Lecture, St. Michael's Hospital (Department of Medicine), University of Toronto, Toronto, Ontario, Canada. "Age-Related Macular Degeneration"

11/10/2005 University of Toronto, Toronto, Ontario, Canada. Visiting Professor, Department of Ophthalmology, "Role of micronutrients in age-related macular degeneration". (City wide rounds)

02/03/2006 University of Miami, Meeting on Ocular Angiogenesis
"Treatment of von Hippel Lindau Ocular disease with anti-VEGF and other therapies"

03/11/2006 Oslo, Norway Meeting on Medical Retina
"Diabetic retinopathy and medical management," "Nutritional Supplements for Age-Related Macular Degeneration." Case nowations.

03/14/2006 Moorfields Eye Hospital Meeting on Medical Retina, Sunderland, UK
"Diabetic retinopathy and medical management," "Nutritional Supplements for Age-Related Macular Degeneration." Case nowations.

04/08/2006 New England Medical Center, Tufts University
"Complement Factor H and AMD", "The Age-Related Eye Disease Study 2 (AREDS2)"

6/17 /2006 St. Louis University, Department of Ophthalmology, St. Louis MO
Anwar Shah Lecture, "Nutrition and Age-Related Macular Degeneration: The Age-Related Eye Disease Study (AREDS)."

6/23/2006 International Congress of Epidemiology, Seattle WA
"Nutritional and AMD Epidemiology"

9/7/2006 Macula of Paris, Paris, France
"Long Term Results of the Age-Related Eye Disease Study in early vs. late atrophic AMD"

10/26/2006 International Meeting of Von Hippel Lindau Disease
U. of Western Ontario, London, Ontario Canada
"Translational Studies of Ocular VHL Disease, from Bench to Bedside".

1/8-11/2007 Gordon Conference on Carotenoids, Ventura, California
Invited speaker: "Design of AREDS2"

1/13/2007 Macula 2006, Johns Hopkins Medical Institute, Baltimore, MD
"Long-term Results of AREDS"

1/18/2007 Visiting Professor, Washington University, St. Louis, MO
Case nowations and: AREDS Results and AREDS2 Study Design
St. Louis Ophthalmological Society: AREDS2 Study

2/2/2007 Visiting Professor, Henry Ford Hospital, Detroit, MI
“Long-term follow-up of AREDS and other Ancillary Studies”
“The Design of AREDS2” and case nowations

2/7/07 Seminar for School of Public Health, Johns Hopkins Medical Institute,
Baltimore, MD
“Government and Industry Collaborations in Clinical Trials of Age-Related
Macular Degeneration and other Retinal Diseases.”

2/9-10/07 Sarasota Vitreoretinal Update, Sarasota Retina Institute Research Foundation,
Sarasota, FL
“AREDS, What have we learned?”, “Rationale Behind AREDS2”,
“Avandia and Diabetic Macular Edema”

2/23-24/07 Angiogenesis, Bascom Palmer Eye Institute, Miami Florida
“Omega-3 and Angiogenesis”

5/28/07 ASCRS (American Society of Cataract and Refractive Surgeons), San Diego,
California. “Medical therapy of diabetic retinopathy”

06/08/07 George Washington University Resident and Alumni Day, Washington, D.C.
“Nutrition and age-related macular degeneration”

06/23/07 Stanford University, Department of Ophthalmology, Palo Alto, California
Stanford Faculty Lecturer: “The updated results of the Age-Related Eye
Disease Study (AREDS)”

6/24-26/07 Symposium Nutrition and the Eye, Supported by the Washington Advisory Group
San Diego, California
Chair and Nower: Nutrition and Age-Related Macular Degeneration.

9/20–9/21/07 Dartmouth University, Department of Ophthalmology, Hanover, NH
Visiting Professor: Results of the Age-Related Eye Disease Study and
AREDS2.

11/26/07 U. of Chicago (Chicago Ophthalmological Society), Chicago, IL
Krill Lecture: Nutrition and Age-related Macular Degeneration

11/30/07 Royal College of Ophthalmologists, Nottingham, England
Results of AREDS and discussion of AREDS2

11/30-12/1/07 Amsler Club, Nottingham, England
The Age-Related Eye Disease Study 2, (AREDS2)

1/09-10/08 Macula Meeting, Paris
Genetic and Environmental interaction in age-related macular
degeneration. Long-term follow of AREDS

2/23 – 23/08 Angiogenesis Meeting, Bascom Palmer Eye Institute, U. of Miami, Miami, FL
Progression of AMD with Cataract Surgery

6/07/08 Virginia Ophthalmological Society
Update of AREDS and AREDS2

2/14/09 Alcon Research Institute Award Lecture
Results of AREDS and the rationale for AREDS2

03/06/09 Bio-Retina, San Francisco, CA (Genentech)
Progression of Non-neovascular AMD

6/19 to 20/09 University of Rochester, Rochester, NY, Visiting professor
AREDS2 Rationale and Long-Term Follow-up of AREDS

7/31 to 8/01/09 Summer ARVO (National Institutes of Health-Bethesda, MD)
Invited speaker: "Early Phase Clinical Trials Development in Ophthalmology"

9/2 to 9/4/09 Cambridge Ophthalmological Symposium on "Chorioretinal Vasculature",
Cambridge, England. Invited speaker: "Environmental influences on Retinal Vascular Diseases".

9/29/09 Warren Alpert Symposium (for Dr. LM Aiello), Joslin Clinic, Boston, MA
Invited Speaker: "The Historical Perspective and the Lasting Impact of the Discovery of Laser for Diabetic Retinopathy"

10/21/09 Kane Lecturer, Northwestern University, Chicago, IL
Invited speaker: "You are what you eat....Nutrition and Age-Related Macular Degeneration"

12/4-6/09 International Forum for Vitreoretinal Diseases, Boao, Hainan, China "Updates on AREDS and AREDS2"

12/7/09 Zhongshan Ophthalmic Center, Guangzhou, China "Structure vs. Function for Clinical Trials Outcomes"

1/23/2010 Macula 2010, Johns Hopkins University, Baltimore, MD "Is there a role for Autofluorescence in the Management of Geographic Atrophy?"

2/20/2010 Angiogenesis meeting. Bascom Palmer Eye Institute, Miami, FL. "Risk factors for Progression of Dry AMD".

4/22/2010 Olldendorf Lecture, Columbia University, New York City, NY. "Updates of the Age-Related Eye Disease Study (AREDS) and Progression of AMD following Cataract Extraction."

4/23/2010 Dedication to the Opening of the Eye Center at U. of Michigan, Ann Arbor, MI. "What I learned from Clinical Trials"

6/28/2010 E.A Baker Lecture, Quebec City, Canada. "Update on Age-Related Macular Degeneration"

7/30-8/1/2010 Summer ARVO (National Institutes of Health-Bethesda, MD)
Invited speaker: "Results of the ACCORD Eye Study"

9/15/2010 Clinical Trials at the National Eye Institute: Georgetown University, Georgetown, Washington DC

9/21/2010 "Progression of Geographic Atrophy in the Age-Related Eye Disease Study". GlaxoSmithKline, King of Prussia, PA

10/8/2010 "Nutrition and Age-Related Macular Degeneration" American College of Nutrition, New York, NY

10/9/2010 "Update on AREDS and AREDS2", Macular Vision Research Foundation for the physicians and patients, Philadelphia, PA

10/14 to 10/19, 2010 American Academy of Ophthalmology, Subspecialty Day (Retina) and the AAO meetings

11/30, 2010 "Ocular Manifestations of Pseudoxanthoma Elasticum", PXE International Meeting, Bethesda, MD

1/17, 2011 Clinical Trials in Ophthalmology, Basic Course in Ophthalmology, Columbia University, New York, NY

2/12, 2011 "Macular Telangiectasia Project," Angiogenesis Meeting, Bascom Palmer, Miami, FL

3/24-25, 2011 "Update of AREDS and AREDS2" Macular Vision Research Foundation, New York, NY

4/2, 2011 "Nutrition and AMD" University of North Carolina, Chapel Hill, NC

4/15-17, 2011 "Macular Telangiectasia" and "Nutrition and AMD" New York Retina Club, New York NY

6/3, 2011 'Treatment for Neovascular AMD.' Mt. Sinai School of Medicine, NYC, NY

6/26, 2011 "Role of hypertension in diabetic retinopathy". Invited speaker for the American Diabetes Association, San Diego, CA

7/10-12, 2011 "Medical Therapies for Diabetic Retinopathy" Lasker Foundation, Woods Hole, MA

9/8-10, 2011 "Long-Term Results of the Age-Related Eye Disease Study (AREDS)" Age-Related Macular Degeneration: Fundamental Aspects and Translation to new treatments. German Ophthalmological Society, Baden-Baden, German

11/17-18, 2011 "Effects of Zinc and antioxidants on age-related macular degeneration" American College of Nutrition, Morristown, NJ

1/13, 2012 "Clinical aspects of Geographic Atrophy" Macula Paris Course, Hotel-Dieu University, Paris France

- 1/19, 2012 Clinical Trials in Ophthalmology, Basic Course in Ophthalmology, Columbia University, New York, NY
- 4/19/2012 "Updates of AREDS and AREDS2" Caygill Lecture and grand rounds, University of California San Francisco, San Francisco, CA
- 6/29-7/1/2012 "Updated Phenotype-Genotype Classification of Age-Related Macular Degeneration", Updates of AREDS and AREDS2 Studies Age-Related Macular Degeneration Symposium, Beijing, China People's Eye Center of People's Hospital, Peking University
- 11/15/2012 "Long-term results of the AREDS clinical trial" Lecture Series from Distinguished Researchers, Cleveland Clinic, Cleveland, OH
- 06/07/2013 "Results of the AREDS2 Study" McGill University, Department of Ophthalmology Research Day, Montreal, QC, Canada
- 07/12/2013 "Results of the AREDS and AREDS2 Studies" Macular Carotenoid meeting, Cambridge, UK
- 11/9-11, 2013 9th International Ocular Symposium, Guangzhou, China. Keynote speaker: "Results of the Age-Related Eye Disease Study 2 (AREDS2)", and 2 other lectures: "ACCORD Study Results", "Running Clinical Trials at NEI/NIH (intramural program).
- 12/4, 2013 "ACCORD eye study, Primary and Secondary analyses", Visiting Professor, University of Oklahoma, Oklahoma City
- 12/6-12/7 2013 Best of Retina, New York, NY. "Results of the Age-Related Eye Disease Study 2 (AREDS2)" and "Genetic Testing in Age-Related Macular Degeneration"
- 12/13/2013 "Results of the Age-Related Eye Disease Study 2 (AREDS2)" and "Genetic Testing in Age-Related Macular Degeneration", "ACCORD Eye Study, primary and secondary analyses" Emory University, Department of Ophthalmology
- 2/8/2014 "AREDS2 Update-Association of Aspirin Use and Age-related Macular Degeneration). Angiogenesis meeting, Bascom Palmer, Miami, FL
- 2/14-15/2014 "AREDS2 Update" and "Genetic Testing in AMD and the AREDS supplements" Canadian Ophthalmological Society, Whistler, Vancouver, BC, Canada
- 3/7/2014 "AREDS2 Update" The Chicago Ophthalmological Society, Chicago, IL
- 3/14-15/2014 "What have we learned from AREDS2?" Sarasota Retina Course, Sarasota, FL
- 4/11-12/2014 "Design and value of randomized controlled clinical trial", "Update of the AREDS2 data and the ForeSee Home Monitoring Study", "The Association of Aspirin with AMD and the Progression of Cataract following Cataract Surgery", U. of Minnesota, Minneapolis, MN (the Knobloch lecture)

- 5/9/2014 "AREDS2 and the value of the randomized controlled clinical trial" The Clement McCulloch Lecture, U. of Toronto, Toronto, ON, Canada
- 6/29-7/3, 2014 "Cognitive Function in Randomized trial of Lutein/Zeaxanthin and Omega-3 Fatty Acids in the Age-Related Eye Disease Study 2" International Carotenoid Meeting, Park City, Utah
- 9/12, 2014 "AREDS2 Update". American Ophthalmological Society, Mayo Clinic, Rochester, Minnesota
- 9/20/2014 "What have we learned from AREDS and AREDS2?" Symposium on the Aging Eye. Medical College of Wisconsin, Milwaukee, WI
- 10/11/2014 "Using Epidemiology to Reduce Global Blindness", AREDS2 results. Bressler Symposium, New York City, NY (sponsored by the Lighthouse Guild)
- 11/15/2014 "Classification of AMD and the development of Geographic Atrophy in AREDS". Institute of Medicine Symposium on Geographic Atrophy associated with Age-Related Macular Degeneration. Washington, DC
- 1/09/2015 "The role of Choroid in AMD". Macular Paris Meeting, Paris, France.
- 1/18-21/2015 "The Age-Related Eye Disease Study 2 (AREDS2) Updates for Your Practice", Hawaiian Eye Retina Meeting: Maui, HI
- 2/07/2015 "An update of geographic atrophy in AREDS2". Angiogenesis Meeting, Bascom Palmer Eye Institute
- 4/11-12/2015 "AREDS Supplements and the role of Genetic Testing" 8th Annual Ocular Nutrition meeting at the School of Optometry, St. Louis, MO,
- 5/01/2015 "The role of genetic testing in AMD." Texas Ophthalmological Society, Austin, TX,
- 6/7-9/2015 "AREDS2 geographic atrophy progression", Classification of Geographic Atrophy Meeting 1 (CAM1), Capri, Italy
- 8/27/2015 "Medical Therapy for Diabetic Retinopathy, ACCORD Study results." ARVO Summer Course, Bethesda, MD
- 9/8/2016 "Peripheral Retinal Findings in AREDS2", Classification of Geographic Atrophy Meeting 2 (CAM2), Baden-Baden, Germany
- 9/9-11/2015 "Update on AREDS/AREDS2", Baden-Baden meeting of Age-Related Macular Degeneration, Baden-Baden, Germany
- 12/4/2015 "Persistent Effect of Glycemia on Diabetic Retinopathy in type 2 diabetes". International Federation of Diabetes. Vancouver, BC, Canada
- 1/9/2016 "Geographic atrophy in AREDS2" Macula Meeting (following Atlantic fluorescein coast meeting). New York City, NY

- 3/17/2016 "The Results of the ACCORDION Eye Study" and "The Role of Nutrition in Age-Related Macular Degeneration" Visiting Professor, part of the Distinguished Lectures in Vision Science Series, Ira G. Ross Eye Institute Vision Research Center, University at Buffalo/State University of New York (SUNY) School of Medicine, Buffalo, NY
- 4/22/2016 "What have we learned from AREDS2 beyond the clinical trial of oral supplements for AMD?" Cless Lecture, University of Illinois at Chicago, Eye and Ear Infirmary, Chicago, IL
- 5/13/2016 "Update of AREDS/AREDS2" University of Iowa Research Day, Department of Ophthalmology, U. of Iowa, Iowa City, IA
- 6/11/2016 "Persistent Effect of Intensive Glucose Control on Diabetic Retinopathy in Type 2 Diabetes. Invited by American Diabetes Association: "Best of *Diabetes Care* 2015-Novel Translational Strategies in the Management of Diabetes" New Orleans, LA
- 6/14-20/2016 "Secondary Analyses of AREDS/AREDS2", "Updates on the Action to Control Cardiovascular Risk in Diabetes (ACCORD) Eye Study", and "Principles of clinical research". Invited keynote speaker for the Zhongshan Ophthalmic Center Epidemiology Symposium, Guangzhou, China
- 9/9/2016 "Nutrition, Gene and AMD" Named Lectureship: Ingrid Kreissig Lecture, at the EuroRetina Meeting, Copenhagen, Denmark.
- 9/23-24/2016 "AREDS2 update" The Deegan Lew Named Lecture, "Results of the ACCORDION Eye Study". U. of Colorado, Denver, Colorado
- 10/8/2016 "Updates on the ACCORD/ACCORDION eye study" Part of the American Ophthalmological Society Council Symposium, University of California Los Angeles (UCLA), Los Angeles, CA
- 10/21/2016 "Nutrition, Genes and AMD" Matthew D. Davis Lecture, U. of Wisconsin, Madison, WI
- 10/28-29/2016 "AMD and Nutrition: You are What You Eat!" "Form and Function Symposium" Dalhousie University, Halifax, Nova Scotia, Canada
- 11/18/2016 "Update and secondary analyses of AREDS2" Northwestern University Grand Rounds, Chicago, IL
- 11/19/2016 Medical retina lectures: on AMD, Diabetic Retinopathy, Macular Telangiectasia. Lecture Series to the Chicago Area Ophthalmology Resident programs, Chicago, IL
- 12/2-3/2016 "AREDS2---What I do in my practice", "Work up of AMD patients for Cataract Surgery" Walter Wright Day, U. of Toronto, Toronto, Ontario, Canada

- 3/02/2017 "Medical Management of Diabetic Retinopathy, including Fenofibrate" Academia Ophthalmicus Internationalis, Singapore
- 03/22/2017 "Nutrition and genetics in Age-related Macular Degeneration" Keith Green Lecture, Augusta, GA (Augusta University or Medical College of Georgia)
- 04/5-9/2017 "Medical therapies for Diabetic Retinopathy: Focus on Fenofibrate", "Genetics of Age-Related Macular Degeneration" China-ARVO, Beijing, Chinese Ophthalmological Society.
- 5/24/2017 "Medical Therapies and persistence of intensive glycemic control on diabetic retinopathy". University of Montreal, Department of Ophthalmology, Montreal, Quebec, Canada
- 6/15/2017 "Medical Therapies for Diabetic Retinopathy" U. of Massachusetts, Worcester, MA, Featured Lecture Series.
- 7/22-23/2017 "Recent advances in the Treatment of Diabetic Retinopathy" "Medical Therapies for Diabetic Retinopathy". U. of Sydney, Master Class in Endocrinology. Sydney, Australia.
- 9/15/2017 "Age-Related Macular Degeneration: What have we learned from our trials of nutrition?" "Diabetic Retinopathy: Medical Therapies" and "Does cataract surgery or aspirin use increase the risk of progression to late AMD?" New Jersey Academy of Ophthalmology Annual Meeting: Princeton, New Jersey
- 9/22-23/2017 Key note: Nutrition and Age-related macular degeneration. Combined meeting of the 3 universities: University of British Columbia, U. of Washington, Oregon Health & Science University. Vancouver, BC, Canada
- 10/27/2017 "Fenofibrate and diabetic retinopathy" Diabetic Retinopathy and Retinal vascular occlusions, Wilmer Eye Institute, Johns Hopkins University, Baltimore, MD
- 2/1-3/2018 "Geographic atrophy in AREDS2" Classification of Atrophy Meeting, Dolomites, Bozen, Italy
- 4/10-11/2018 "AREDS/AREDS2-genetics and nutrition" U. of Alabama, Birmingham, Alabama
- 10/11-13/2018 "Biomarkers of AMD", Harvard 5th annual symposium on AMD, Boston, MA
- 11/15/2018 "Age-related Macular Degeneration, Environment, Nutrition and Genetics" Vice Chancellor of Research's Distinguished Lecture Series, U. of Tennessee, Memphis, TN
- 02/09/2019 "Results of the AREDS2 10 year follow-up" Angiogenesis Meeting, Bascom Palmer, Miami, FL
- 06/15/2019 "Age-related Macular Degeneration, Nutrition and Genetics" Queen's University, Kingston, Ontario, Canada

- 06/7-8/2019 "Update of the Macular Telangiectasia type2 (Mac Tel) Project—Global Connections," Duke University, Research Day, Raleigh-Durham, NC
- 06/14/2019 "Age-related Macular Degeneration, Nutrition and Genetic Testing" U. of Waterloo, School of Optometry
- 10//13/2019 Jackson Memorial Lecture (2019) "Age-related macular degeneration: Nutrition, Genetics, and Deep Learning" Keynote lecture for the American Academy of Ophthalmology (AAO), San Francisco, CA
- 11/7-12/2019 Retina Keynote speaker for the Royal Australian and New Zealand College of Ophthalmology (RANZCO) annual meeting, Sydney, Australia. "Update on Macular Telangiectasia type 2, from eye exam to global connections, a 15 year journey", Updates on Diabetic retinopathy screening, what is on the horizon for future of diabetic retinopathy studies, multi-modal imaging for retinal diseases and clinical controversy of genetic testing in Age-related Macular Degeneration, (total of 5 lectures).

Lectures for the Lay Public at Local and National Meetings

Prevention of Blindness Society Washington Chapter (I regularly speak to the support groups of patients and their families at nursing homes, Sibley Hospital, Jewish Community Center)

Communications Spokesperson at NEI for media interviews regarding various eye diseases

Lectured for Foundation for Fighting Blindness (major meeting for their patients and donors)

Lectured and interviewed by Bright Focus for the lay public on AMD

Lectured for Prevent Blindness