

CURRICULUM VITAE

Prem S. Subramanian, MD, PhD

Professor of Ophthalmology, Neurology, and Neurosurgery
Department of Ophthalmology
Vice Chair for Academic Affairs, Ophthalmology
Division Head, Neuro-Ophthalmology
University of Colorado School of Medicine
UCHealth Eye Center
1675 Aurora Court, Mailstop F731
Aurora, CO 80045

Appointments: 720-848-2020

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www.eyeinstitute.org

PREDOCTORAL EDUCATION

1985 – 1989 Pre-medical: Bachelor of Arts, Chemistry
Princeton University, Princeton, NJ
Summa cum laude

1989 – 1997 Medical: Doctor of Medicine
Baylor College of Medicine, Houston, TX
High honors

GRADUATE EDUCATION

1990 – 1995 Doctoral: Doctor of Philosophy, Molecular and Human Genetics
Graduate School of Biomedical Sciences
Baylor College of Medicine, Houston, TX
[Dissertation](#): Replication timing properties of the human HPRT
locus on active, inactive and reactivated chromosomes
Advisor: A. Craig Chinault, Ph.D.

POSTDOCTORAL TRAINING

1997 – 1998 Internship: Walter Reed Army Medical Center, Bethesda, MD

1998 – 2001 Residency: Ophthalmology, Walter Reed Army Medical Center, Uniformed
Services University of the Health Sciences, Bethesda, MD

2002 – 2003 Fellowship: Neuro-Ophthalmology, Wilmer Eye Institute,
Johns Hopkins University School of Medicine, Baltimore, MD

ACADEMIC APPOINTMENTS

- 1999 – 2001 Instructor in Surgery, Uniformed Services University, Bethesda, MD
- 2001 – 2006 Assistant Professor of Surgery, Uniformed Services University, Bethesda, MD
- 2002 – 2003 Assistant in Ophthalmology, Johns Hopkins University, Baltimore, MD
- 2006 – 2008 Associate Professor of Surgery, Uniformed Services University, Bethesda, MD
- 2008 Visiting Associate Professor of Ophthalmology, Johns Hopkins University, Baltimore, MD
- 2008 – 2015 Associate Professor of Ophthalmology, Johns Hopkins University, Baltimore, MD
- 2010 – 2015 Associate Professor of Neurology, Johns Hopkins University, Baltimore, MD
- 2010 – 2015 Associate Professor of Neurological Surgery, Johns Hopkins University, Baltimore, MD
- 2015 – 2016 Visiting Professor of Ophthalmology, Neurology, and Neurosurgery, Department of Ophthalmology, University of Colorado School of Medicine, Aurora, CO
- 2016 – Professor of Ophthalmology, Neurology, and Neurosurgery, Department of Ophthalmology, University of Colorado School of Medicine, Aurora, CO

GOVERNMENT AND PROFESSIONAL APPOINTMENTS

- 1986 Analytical Chemist, Firma Carl Still, GmbH & Co. KG, Haltern, West Germany
- 1987 Research Associate in Psychology, Princeton University, Princeton, NJ
- 1988 Research Associate in Chemistry, Princeton University, Princeton, NJ
- 1989 – 1993 Second Lieutenant, Medical Service Corps, United States Army Reserve
- 1993 – 1997 First Lieutenant, Medical Service Corps, United States Army Reserve
- 1997 – 2000 Captain, Medical Corps, United States Army Reserve
- 2000 – 2006 Major, Medical Corps, United States Army Reserve
- 2001 – 2002 Comprehensive Ophthalmologist, Walter Reed AMC, Washington, DC
- 2006 – 2007 Lieutenant Colonel, Medical Corps, United States Army (RA)
- 2013 – 2017 Consultant, Neuro-Ophthalmology, National Aeronautics and Space Agency (NASA)

SPECIALTY BOARD CERTIFICATION

- 2002 – 2012 Diplomate, American Board of Ophthalmology
- 2013 – 2022 Diplomate, American Board of Ophthalmology (recertification)

MEDICAL LICENSES

- 1998 – 2015 Physician license, Maryland (inactive)
- 2001 – 2016 Physician license, Virginia (inactive)
- 2015 – Physician license, Colorado (active)

HOSPITAL STAFF MEMBERSHIP

- 2001 – 2007 Walter Reed Army Medical Center, Washington, DC
- 2001 – 2007 Kimbrough Ambulatory Care Center, Fort Meade, MD
- 2010 – 2015 The Johns Hopkins Hospital, Baltimore, MD
- 2010 – 2015 Johns Hopkins Bayview Med Center, Baltimore, MD
- 2010 – 2015 Suburban Hospital, Bethesda, MD
- 2013 – 2015 Suburban Outpatient Surgical Center, Rockville, MD
- 2015 – University of Colorado Hospital, Aurora, CO
- 2015 – Children’s Hospital Colorado, Aurora, CO
- 2015 – Denver Health Medical Center, Denver, CO
- 2015 – Denver VA Eastern Colorado Health Care System, Denver, CO

HONORS, AWARDS & RECOGNITION

- 1988 NSF Summer Research Fellowship, Chemistry, Princeton University
- 1989 McCay Prize in Physical Chemistry, Princeton University
- 1989 Sigma Xi Research Honor Society, Princeton University
- 1989 Distinguished Military Graduate, Princeton University
- 1989 Chairman’s Award for Graduate Study, University Scholarships Canada
- 1996 Alpha Omega Alpha Medical Honor Society, Baylor College of Medicine
- 1997 Lange Book Award, Baylor College of Medicine
- 1998 Outstanding Intern in Pediatrics, Walter Reed Army Medical Center
- 2001 Best Resident Research Paper, Uniformed Services Univ. of the Health Sciences
- 2002 Meritorious Service Medal, United States Army (Operation Enduring Freedom)
- 2006 Army Commendation Medal, Walter Reed Army Medical Center (Operation Iraqi Freedom)
- 2009 Distinguished Service Award, American Academy of Ophthalmology
- 2009 Achievement Award, American Academy of Ophthalmology
- 2012 Neil R. Miller Teaching Award in Ophthalmology, Wilmer Eye Institute, Johns Hopkins University School of Medicine
- 2013 Special Recognition Award, American Academy of Ophthalmology
- 2017 Senior Achievement Award, American Academy of Ophthalmology
- 2017 Academy of Medical Educators, University of Colorado School of Medicine

PROFESSIONAL SOCIETY MEMBERSHIPS

- 1996 – Alpha Omega Alpha Honor Medical Society (ΑΩΑ)

- 1998 – American Academy of Ophthalmology (AAO)
- 2001 – Society of Military Ophthalmologists (SMO)
- 2001 – North American Neuro-Ophthalmology Society (NANOS)
- 2001 – 2005 American Society of Cataract and Refractive Surgeons (ASCRS)
- 2006 – 2011 American Society for Ocular Trauma (ASOT)
- 2006 – 2011 International Society for Ocular Trauma (ASOT)
- 2009 – Association for Research in Vision and Ophthalmology (ARVO)
- 2010 – Pan-American Association of Ophthalmology (PAAO)
- 2015 – Colorado Society of Eye Physicians and Surgeons (CSEPS)

ADMINISTRATIVE, COMMITTEE AND SERVICE RESPONSIBILITIES

Department of Ophthalmology, University of Colorado School of Medicine

- 2015 – Selection Committee, Ophthalmology Residency Program
- 2015 – Division Head, Neuro-Ophthalmology
- 2015 – Vice Chair for Academic Affairs
- 2015 – Faculty Career Advisor
- 2017 – Chair, Faculty Promotions Committee

Department of Neurology, University of Colorado School of Medicine

- 2015 – Selection Committee, Neuro-Ophthalmology Fellowship

University of Colorado School of Medicine

- 2015 – Preceptor, Foundations of Doctoring
- 2017 – Member, Career Mapping Group
- 2017 – Member, Faculty Affairs Liaison Committee
- 2017 – Member, Rymer Grant Selection Committee

UCHealth Eye Centers, University of Colorado Hospital

- 2016 – Leader, Ophthalmic Technician Training Program Planning Group
- 2018 – Leader, Neuro-Ophthalmology Epic Development

Wilmer Eye Institute, Johns Hopkins University School of Medicine

- 2005 – 2007 Member, Interdepartmental Curriculum Committee
- 2008 – 2012 Member, Clinical Practice Redesign Committee
- 2009 – 2015 Director, Neuro-Ophthalmology and Orbital Diseases, Neurology Special Senses section, Genes to Society curriculum

- 2010 – 2015 Member, Resident Education Task Force
- 2012 – 2015 Member, Resident Education Task Force, General Eye Service Directorate
- 2012 – 2015 Member, Residency Education Committee
- 2012 – 2015 Program Director, Neuro-ophthalmology Fellowship

Johns Hopkins Hospital

- 2007 – 2015 Member, Medical Staff Conference Committee
- 2009 – 2011 Vice Chairman, Medical Staff Conference Committee
- 2009 – 2011 Representative to Hospital Bylaws Committee
- 2011 – 2013 Chairman, Medical Staff Conference Committee
- 2011 – 2013 Member, Administrative Committee, Medical Board
- 2011 – 2013 Member, Medical Board

National Capital Consortium

- 2004 – 2007 Member, Ophthalmology Graduate Medical Education Committee, Uniformed Services University of the Health Sciences
- 2004 – 2007 Associate Residency Program Director, Ophthalmology, Walter Reed Army Medical Center
- 2005 – 2007 Medical Student Education Coordinator, Ophthalmology, Walter Reed Army Medical Center
- 2005 – 2007 Member, Graduate Medical Education Committee, National Capital Consortium

National Committees and Task Forces

- 2009 Member, Task Force on Resonance Raman Spectroscopy in Remote Explosives Detection, Department of Homeland Security
- 2011 – 2016 Member, Research and Clinical Advisory Panel (RCAP) on Vision Impairment Intracranial Pressure (VIIP) Syndrome, National Aeronautics and Space Agency (NASA)
- 2013 Member, Committee on Human Health Risks (Spaceflight), Institute of Medicine, National Academies of Sciences, Engineering, and Medicine
- 2014 – Member, Standing Committee on Aerospace Medicine and Medicine of Extreme Environments (CAMMEE), Institute of Medicine, National Academies of Sciences, Engineering, and Medicine

Professional Societies

- 2004 – 2012 Research Committee, North American Neuro-Ophthalmology Society (NANOS)
- 2006 – 2011 Consultant, Digital Media Committee, American Academy of Ophthalmology (AAO)
- 2010 – 2014 Committee Member, Basic and Clinical Science Section 5, AAO

- 2011 – 2016 Member, Self-Assessment Committee, AAO
- 2012 – 2016 Member, Continuing Medical Education (CME) Committee, NANOS
- 2012 – Committee Member and Content Developer, Content Development Program, American Board of Ophthalmology (ABO)
- 2012 – Member, AAO Committee, NANOS
- 2012 – 2018 Member, Neuro-Ophthalmology Section, Annual Meeting Program Committee, AAO
- 2012 – YONO (Young Neuro-ophthalmologists) Committee, NANOS
- 2012 – Membership Recruitment and Retention Committee, NANOS
- 2014 – Member, Frank B. Walsh Committee, NANOS
- 2014 – 2018 Vice Chair, AAO Committee, NANOS
- 2015 – Chair, Demonstration of Neuro-Ophthalmic Value Committee, NANOS
- 2015 – Vice Chair, Advocacy Committee, NANOS
- 2016 – Member, Quality Outcomes Committee, NANOS
- 2017 – Member, AAO *EyeNet* Editorial Board
- 2018 – Chair, AAO Committee, NANOS
- 2018 – Councilor for NANOS, Council of the AAO
- 2018 – Chair, Content Development Task Force, Neuro-ophthalmology, American Board of Ophthalmology

EDITORIAL SERVICES TO SCHOLARLY PUBLICATIONS

Editorial Board Service

- 2010 – 2017 Editorial Board Member, Journal of the American Association for Pediatric Ophthalmology and Strabismus (AAPOS)
- 2010 – Online Content Editor, Journal of Neuro-Ophthalmology
- 2011 – Section Editor, British Journal of Ophthalmology
- 2015 – Editorial Board Member, Graefes Archive for Experimental and Clinical Ophthalmology
- 2017 – Associate Editor, Journal of AAPOS
- 2017 – Advisory Board Member, Indian Journal of Ophthalmology

Ad hoc Review Service, Journals

- 2002 – JAMA Ophthalmology (formerly Archives of Ophthalmology)
- 2003 – American Journal of Ophthalmology
- 2003 – Ophthalmology
- 2004 – 2011 British Journal of Ophthalmology

2006 – 2010 Journal of Neuro-Ophthalmology
 2007 – 2010 Journal of AAPOS (American Assoc. for Pediatric Ophthalmology & Strabismus)
 2007 – Eye
 2007 – Neuro-Ophthalmology
 2008 – European Journal of Ophthalmology
 2008 – Military Medicine
 2009 – Neurology
 2009 – Pediatric Blood & Cancer
 2009 – 2015 Graefes Archive for Clinical and Experimental Ophthalmology
 2010 – Clinical and Experimental Ophthalmology
 2011 – Investigative Ophthalmology and Visual Sciences (IOVS)
 2011 – Journal of Neurosurgery
 2012 – Canadian Journal of Neurological Sciences
 2013 – Experimental Eye Research
 2013 – Neurosurgery
 2013 – Ophthalmic Plastic and Reconstructive Surgery
 2013 – Clinical Ophthalmology
 2013 – Frontiers in Neurology
 2014 – Journal of Neuroimmunology
 2015 – American Journal of Ophthalmology (AJO) Case Reports
 2015 – BMC Neurology
 2015 – Ocular Oncology and Pathology
 2017 – Journal of Neurological Sciences
 2018 – BEAT: Bulletin of Emergency and Trauma

REVIEW AND REFEREE WORK

Grant Review Committees/Study Sections

2001 Vision Science Committee, NASA Research Education Support Service (NRESS)
 2014 Grants-in-Aid Committee, Fight for Sight 2014
 2014 Grants-in-Aid Committee, Fight for Sight 2015
 2016 Grants-in-Aid Committee, Fight for Sight 2016
 2017 Grants-in-Aid Committee, Fight for Sight 2017
 2018 Grants-in-Aid Committee, Fight for Sight 2018

Meeting Abstract/Program Review

2007	North American Neuro-Ophthalmology Society, Annual Meeting
2008	North American Neuro-Ophthalmology Society, Annual Meeting
2009	North American Neuro-Ophthalmology Society, Annual Meeting
2010	American Academy of Ophthalmology, Annual Meeting
2010	North American Neuro-Ophthalmology Society, Annual Meeting
2011	All India Ophthalmological Society, Annual Conference
2011	American Academy of Ophthalmology, Annual Meeting
2011	North American Neuro-Ophthalmology Society, Annual Meeting
2012	All India Ophthalmological Society, Annual Conference
2012	American Academy of Ophthalmology, Annual Meeting
2012	Asia-Pacific Academy of Ophthalmology, Annual Meeting
2012	North American Neuro-Ophthalmology Society, Annual Meeting
2013	American Academy of Ophthalmology, Annual Meeting
2013	North American Neuro-Ophthalmology Society, Annual Meeting
2014	American Academy of Ophthalmology, Annual Meeting
2014	Asia-Pacific Academy of Ophthalmology, Annual Meeting
2014	North American Neuro-Ophthalmology Society, Annual Meeting
2015	American Academy of Ophthalmology, Annual Meeting
2015	Asia-Pacific Academy of Ophthalmology, Annual Meeting
2015	North American Neuro-Ophthalmology Society, Annual Meeting
2016	American Academy of Ophthalmology, Annual Meeting
2016	Asia-Pacific Academy of Ophthalmology, Annual Meeting
2016	Middle East-Africa Council of Ophthalmology, International Congress
2017	All India Ophthalmological Society, Annual Conference
2017	American Academy of Ophthalmology, Annual Meeting
2017	Asia-Pacific Academy of Ophthalmology, Annual Meeting
2017	Pan-American Association of Ophthalmology Congress
2017	American Academy of Ophthalmology, Annual Meeting
2018	Asia-Pacific Academy of Ophthalmology, Annual Meeting

Professional Meetings

2004	Section Organizer, neuro-ophthalmology, orbital, and oculoplastic diseases. Update in Ophthalmology: Current Topics. Division of Ophthalmology,
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- Uniformed Services University and Walter Reed Ophthalmology Alumni Association Meeting
- 2007 Co-Chair, Neuro-ophthalmology Session, Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2007 – 2014 Scientific Program Committee, NANOS
- 2008 Chairman, Neuro-Ophthalmology Session, 67th Annual Meeting of the Wilmer Residents' Association, Wilmer Eye Institute
- 2009 Symposium Organizer, Traumatic Brain Injury, North American Neuro-Ophthalmology Society Annual Meeting
- 2009 Symposium Co-Chair, On Time and On Budget: Economical and Efficient Approaches to Common Neuro-Ophthalmological Problems. American Academy of Ophthalmology Annual Meeting
- 2009 Session Chair, Neuro-Ophthalmology. 22nd Annual Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2010 – 2014 Topic Reviewer, Annual Meeting Program Committee, AAO
- 2010 Symposium Organizer, Research Free Papers. North American Neuro-Ophthalmology Society Annual Meeting
- 2010 Chairman, Neuro-Ophthalmology Session. 69th Annual Meeting of the Wilmer Residents' Association, Wilmer Eye Institute
- 2010 Session Co-Chair, Hemanopia: Features and Interventions. World Ophthalmology Congress
- 2010 Session Chair, Neuro-Ophthalmology. 23rd Annual Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2011 Symposium Organizer, What is Wrong with this Pupil/Eyelid? American Academy of Ophthalmology Annual Meeting: Neuro-Ophthalmology Sub-Specialty Day
- 2011 Session Chair, Neuro-Ophthalmology. 24th Annual Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2012 Symposium Moderator, Research Free Papers. North American Neuro-Ophthalmology Society Annual Meeting
- 2012 Symposium Organizer, Advances in Neurosurgery. North American Neuro-Ophthalmology Society Annual Meeting
- 2012 Session Chair, Controversies in Neuro-Ophthalmology. Asia-Pacific Academy of Ophthalmology Annual Meeting
- 2013 Session Chair, Common Neuro-Ophthalmology Scenarios 2: Diplopia & Ptosis. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and All-India Ophthalmology Society

- 2013 Symposium Organizer, What to Make of This Chief Complaint or Presenting Symptom? American Academy of Ophthalmology Annual Meeting: Neuro-Ophthalmology Sub-Specialty Day
- 2013 Session Chair, Neuro-Ophthalmology. 26th Annual Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2014 Program Chair, 46th Annual Frank B. Walsh Meeting, North American Neuro-Ophthalmology Society, San Juan, Puerto Rico
- 2014 Co-organizer, Neuro-ophthalmology for the Clinician: A Practical Approach. Johns Hopkins University School of Medicine
- 2014 Session Chair, Neuro-Ophthalmology. 27th Annual Current Concepts in Ophthalmology, Wilmer Eye Institute
- 2015 Session Chairman: Neuro-Ophthalmology and Systemic Diseases. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and Chinese Ophthalmology Society. Guangzhou, China
- 2015 Symposium Organizer, Neuro-Ophthalmology Made Ridiculously Simple, American Academy of Ophthalmology Annual Meeting: Neuro-Ophthalmology Sub-Specialty Day
- 2016 Program Committee Member and Session Chair. World Ophthalmology Congress, Guadalajara, Mexico
- 2016 International Coordinator for Neuro-Ophthalmology. 30th Asia-Pacific Academy of Ophthalmology Congress, Taipei, Taiwan
- 2016 Scientific Program Committee member, Middle East Africa Congress of Ophthalmology, Manama, Bahrain
- 2017 International Coordinator for Neuro-Ophthalmology. 31st Asia-Pacific Academy of Ophthalmology Congress, Singapore
- 2017 Session Chair, 25th Annual Meeting of the Lebanese Ophthalmology Society, Beirut, Lebanon
- 2017 Coordinator for US Region, Neuro-Ophthalmology Program, Pan American Ophthalmology Congress, Lima, Peru
- 2017 Symposium Organizer, When Should I Worry? Dangerous Signs, Symptoms, and Findings in Neuro-Ophthalmology, American Academy of Ophthalmology Annual Meeting: Neuro-Ophthalmology Sub-Specialty Day
- 2018 Session Chair, 32nd Asia-Pacific Academy of Ophthalmology Congress, AAPOS Symposium
- 2018 Program Chair, 50th Annual Frank B. Walsh Meeting, North American Neuro-Ophthalmology Society, Waikoloa, HI
- 2019 International Coordinator for Neuro-Ophthalmology. 33rd Asia-Pacific Academy of Ophthalmology Congress, Bangkok, Thailand

MENTORING ACTIVITIES (current position)

Clinical Fellows, Neuro-Ophthalmology

2016 – 2018 Alaa Bou-Ghannam, MD (Assistant Professor, Neuro- and Pediatric Ophthalmology, American University of Beirut, Lebanon)

Research Mentees

2004 – 2007 Steven J. Donnelly, MD (private practice, Pennsylvania)

RESEARCH INTERESTS

- Characterization of efferent disorders after traumatic brain injury
- Natural history and treatment of traumatic optic neuropathy
- Causes of giant cell arteritis

RESEARCH ACTIVITIES, SUPPORT AND GRANTS:

Pending Projects:

1. **National Eye Institute, NIH**, Subramanian (PI): “Quantitative Diplopia Measurement in Traumatic Brain Injury”, Principal Investigator, \$665,000, 2015-2018. [*pending*]

Active Research Projects, Support and Grants:

1. **GenSight Biologics**, GS-LHON-CLIN-05, Subramanian (PI): “Efficacy and Safety of Bilateral Intravitreal Injection of GS010: A Randomized, Double-Masked, Placebo-Controlled Trial in Subjects Affected With G11778A ND4 Leber Hereditary Optic Neuropathy (LHON) for Up to One Year”, Principal Investigator, 2018-2021.
2. **Santhera**, SNT-IV-005, Subramanian (Site PI): “External Natural History Controlled, Open-Label Intervention Study to Assess the Efficacy and Safety of Long-Term Treatment with Idebenone (Raxone®) in Leber’s Hereditary Optic Neuropathy (LHON)”, Site Principal Investigator, \$61,540, 2017-2021.

Completed Research Projects, Support and Grants:

1. **Sockwell Family Foundation, Johns Hopkins University**, IRB00094787, McCulley (PI): “An Open Label Trial of Celecoxib in the Treatment of Mild Thyroid Eye Disease”, Site Principal Investigator, \$10,000/yr, 2014-2016.
2. **National Institutes of Health**, U10EY017281, Wall (PI): “A Multicenter, Double-blind, Randomized, Placebo-controlled Study of Weight-Reduction and/or Low Sodium Diet Plus Acetazolamide vs Diet Plus Placebo in Subjects With Idiopathic Intracranial Hypertension With Mild Visual Loss (NORDIC)”, Site Principal Investigator, 2011-2015.
3. **North American Neuro-ophthalmology Society**, 90037815, Subramanian (PI): “Predicting Clinical Outcomes in Adult Diplopic Patients”, Principal Investigator, \$25,000, 2009-2010.

4. **Pfizer**, A1481282, Subramanian (Site PI): “The Detection and Epidemiology of Non-arteritic Anterior Ischemic Optic Neuropathy (NAION) in a Commercially Insured Population in the United States”, Site Principal Investigator, \$10,000/yr, 2008-2012.
5. **Titus Family Foundation**, 80001222, Subramanian (PI): “Regulation of Optic Nerve Blood Flow”, Principal Investigator, \$39,578/yr, 2008-2011.
6. **Department of Clinical Investigation, North Atlantic Regional Medical Command, US Army**, WU #04-3156, Donnelly (PI): “Incidence of Spontaneous Venous Pulsations: Revisited”, Co-Investigator/Mentor, \$10,000, 2004-2007.
7. **Department of Clinical Investigation, North Atlantic Regional Medical Command, US Army**, WU #00-2302, Subramanian (PI): “Expression of Markers of Vascular Proliferation in Human Choroidal Neovascular Membranes”, Principal Investigator, \$10,500, 2000-2002.

PUBLICATIONS

Peer Reviewed Publications – PubMed Indexed

1. **Subramanian PS**, Versalovic J, McCabe ER, Lupski JR. [Rapid mapping of Escherichia coli::Tn5 insertion mutations by REP-Tn5 PCR](#). PCR Methods Appl. 1992 Feb;1(3):187-92. PubMed PMID: 1335324.
2. **Subramanian PS**, Nelson DL, Chinault AC. [Large domains of apparent delayed replication timing associated with triplet repeat expansion at FRAXA and FRAXE](#). Am J Hum Genet. 1996 Aug;59(2):407-16. PubMed PMID: 8755928; PubMed Central PMCID: PMC1914744.
3. **Subramanian PS**, Chinault AC. [Replication timing properties of the human HPRT locus on active, inactive and reactivated X chromosomes](#). Somat Cell Mol Genet. 1997 Mar;23(2):97-109. PubMed PMID: 9330638.
4. **Subramanian PS**, O’Kane B, Stefanik R, Stevens J, Rabin J, Bauer RM, Bower KS. [Visual performance with night vision goggles after photorefractive keratectomy for myopia](#). Ophthalmology. 2003 Mar;110(3):525-30. PubMed PMID: 12623815.
5. **Subramanian PS**, Kerrison JB, Calvert PC, Miller NR. [Orbital inflammatory disease after pamidronate treatment for metastatic prostate cancer](#). Arch Ophthalmol. 2003 Sep;121(9):1335-6. PubMed PMID: 12963622.
6. **Subramanian PS**, Bressler NM, Miller NR. [Radiation retinopathy after fractionated stereotactic radiotherapy for optic nerve sheath meningioma](#). Ophthalmology. 2004 Mar;111(3):565-7. Erratum in: Ophthalmology. 2006 Sep;113(9):1622. Dosage error in article text. PubMed PMID: 15019337.
7. **Subramanian PS**, Goldenberg-Cohen N, Shukla S, Cheskin LJ, Miller NR. [Plasma ghrelin levels are normal in obese patients with idiopathic intracranial hypertension \(pseudotumor cerebri\)](#). Am J Ophthalmol. 2004 Jul;138(1):109-13. PubMed PMID: 15234288.

8. Hammond MD, Ward TP, Katz B, **Subramanian PS**. [Elevated intracranial pressure associated with idiopathic retinal vasculitis, aneurysms, and neuroretinitis syndrome.](#) J Neuroophthalmol. 2004 Sep;24(3):221-4. PubMed PMID: 15348989.
9. Han PJ, Shukla S, **Subramanian PS**, Hoffman PN. [Cyclic AMP elevates tubulin expression without increasing intrinsic axon growth capacity.](#) Exp Neurol. 2004 Oct;189(2):293-302. PubMed PMID: 15380480.
10. **Subramanian PS**, Gailloud PH, Heck DV, Tamargo RJ, Murphy KJ, Miller NR. [Cook detachable coil embolization of a symptomatic, isolated orbital arteriovenous fistula via a superior ophthalmic vein approach.](#) Neuroradiology. 2005 Jan;47(1):62-5. Epub 2005 Jan 5. PubMed PMID: 15633053.
11. Burka JM, Bower KS, Cute DL, Stutzman RD, **Subramanian PS**, Rabin JC. [Comparison of two techniques of marking the horizontal axis during excimer laser keratorefractive surgery for myopic astigmatism.](#) Am J Ophthalmol. 2005 Apr;139(4):735-7. PubMed PMID: 15808184.
12. **Subramanian PS**, Miller NR, Renard V, Tamargo RJ. [Delayed progressive visual loss following wrapping of bilateral clinoidal aneurysms: recovery of vision and improvement in neuroimaging during corticosteroid treatment.](#) Br J Ophthalmol. 2005 Dec;89(12):1666-8. PubMed PMID: 16299157; PubMed Central PMCID: PMC1772962.
13. Bower KS, Burka JM, **Subramanian PS**, Stutzman RD, Mines MJ, Rabin JC. [Night firing range performance following photorefractive keratectomy and laser in situ keratomileusis.](#) Mil Med. 2006 Jun;171(6):468-71. PubMed PMID: 16808122.
14. Brooks DB, **Subramanian PS**. [Monocular temporal hemianopia with septo-optic dysplasia.](#) J Neuroophthalmol. 2006 Sep;26(3):195-6. PubMed PMID: 16966940.
15. **Subramanian PS**, Gailloud PH, Heck DV, Tamargo RJ, Murphy KJ, Miller NR. [Embolization of orbital arteriovenous fistulas.](#) J Neurosurg. 2006 Nov;105(5):797; author reply 797-8. PubMed PMID: 17121150.
16. Colyer MH, Bower KS, Ward TP, Hidayat AA, **Subramanian PS**. [Mitochondrial myopathy presenting with segmental corneal oedema and retrocorneal membrane.](#) Br J Ophthalmol. 2007 May;91(5):696-7. PubMed PMID: 17446514; PubMed Central PMCID: PMC1954746.
17. Weber ED, Colyer MH, Lesser RL, **Subramanian PS**. [Posterior ischemic optic neuropathy after minimally invasive prostatectomy.](#) J Neuroophthalmol. 2007 Dec;27(4):285-7. PubMed PMID: 18090562.
18. **Subramanian PS**, Birdsong RH. [Surgical management of traumatic strabismus after combat-related injury.](#) Mil Med. 2008 Jul;173(7):693-6. PubMed PMID: 18700606.
19. Bababegy SR, Repka MX, **Subramanian PS**. [Minocycline-associated pseudotumor cerebri with severe papilledema.](#) J Ophthalmol. 2009;2009:203583. doi:

- 10.1155/2009/203583. Epub 2010 Feb 16. PubMed PMID: 20339567; PubMed Central PMCID: PMC2836895.
20. Donnelly SJ, **Subramanian PS**. [Relationship of intraocular pulse pressure and spontaneous venous pulsations](#). Am J Ophthalmol. 2009 Jan;147(1):51-55.e2. doi: 10.1016/j.ajo.2008.07.035. Epub 2008 Sep 13. PubMed PMID: 18789795.
 21. **Subramanian PS**, Williams ZR. [Arteriovenous malformations and carotid-cavernous fistulae](#). Int Ophthalmol Clin. 2009 Summer;49(3):81-102. doi: 10.1097/IIO.0b013e3181a8d7ac. Review. PubMed PMID: 19584623.
 22. Deschler EK, Miller NR, **Subramanian PS**. [Papilloedema and vision loss with elevated cerebrospinal fluid protein in a patient with systemic lupus erythematosus: diagnosis and management challenges](#). Br J Ophthalmol. 2010 Jan;94(1):131-42. doi: 10.1136/bjo.2008.140053. Epub 2008 Jul 25. PubMed PMID: 18658171.
 23. Farrell SK, Hiremath GS, **Subramanian PS**, Venkatesan A. [The peaks and valleys of ocular histoplasmosis syndrome](#). Lancet Infect Dis. 2010 Mar;10(3):212. doi: 10.1016/S1473-3099(10)70007-4. PubMed PMID: 20185100.
 24. Danesh-Meyer HV, Boland MV, Savino PJ, Miller NR, **Subramanian PS**, Girkin CA, Quigley HA. [Optic disc morphology in open-angle glaucoma compared with anterior ischemic optic neuropathies](#). Invest Ophthalmol Vis Sci. 2010 Apr;51(4):2003-10. doi: 10.1167/iovs.09-3492. Epub 2009 Sep 8. PubMed PMID: 19737875; PubMed Central PMCID: PMC2868394.
 25. Decanini-Mancera A, Lessell S, Lee MS, **Subramanian PS**. [Syphilis and the monk](#). Surv Ophthalmol. 2011 May-Jun;56(3):267-73. doi: 10.1016/j.survophthal.2010.08.004. Epub 2010 Nov 5. PubMed PMID: 21056446.
 26. Wu-Chen WY, Christoff A, **Subramanian PS**, Eggenberger ER. [Diplopia and quality of life](#). Ophthalmology. 2011 Jul;118(7):1481-1481.e2. doi: 10.1016/j.ophtha.2011.01.052. PubMed PMID: 21724046.
 27. **Subramanian PS**. [Pediatric optic neuritis and multiple sclerosis: who is at risk for progression?](#) J AAPOS. 2011 Oct;15(5):419-20. doi: 10.1016/j.jaapos.2011.06.002. Epub 2011 Sep 29. PubMed PMID: 21958904.
 28. Boland MV, McCoy AN, Quigley HA, Miller NR, **Subramanian PS**, Ramulu PY, Murakami P, Danesh-Meyer HV. [Evaluation of an algorithm for detecting visual field defects due to chiasmal and postchiasmal lesions: the neurological hemifield test](#). Invest Ophthalmol Vis Sci. 2011 Oct 10;52(11):7959-65. doi: 10.1167/iovs.11-7868. PubMed PMID: 21896843; PubMed Central PMCID: PMC3207952.
 29. Ko F, DiBernardo CW, Oak J, Miller NR, **Subramanian PS**. [Confirmation of and differentiation among primary vascular lesions using ultrasonography](#). Ophthal Plast Reconstr Surg. 2011 Nov-Dec;27(6):431-5. doi: 10.1097/IOP.0b013e31822323af. PubMed PMID: 21785379.

30. Nickerson JP, Lane AP, **Subramanian PS**, Izbudak I. [Onodi cell mucocele causing acute vision loss: radiological and surgical correlation](#). Clin Neuroradiol. 2011 Nov;21(4):245-8. doi: 10.1007/s00062-011-0056-7. Epub 2011 Apr 2. PubMed PMID: 21461693.
31. Liu D, Cruz FM, **Subramanian PS**. [Bilateral vision loss associated with radiofrequency exposure](#). Clin Ophthalmol. 2012;6:2069-73. doi: 10.2147/OPTH.S38783. Epub 2012 Dec 12. PubMed PMID: 23271888; PubMed Central PMCID: PMC3526913.
32. Kanagalingam S, Gailloud P, Tamargo RJ, **Subramanian PS**, Miller NR. [Visual sequelae after consensus-based treatment of ophthalmic artery segment aneurysms: the Johns Hopkins experience](#). J Neuroophthalmol. 2012 Mar;32(1):27-32. doi: 10.1097/WNO.0b013e31823b6c60. PubMed PMID: 22146516.
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Clinical Trial Group Publications

1. Keltner JL, Johnson CA, Cello K, Wall M for the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** site investigator). Baseline visual field findings in the The Idiopathic Intracranial Hypertension Treatment Trial. *Invest. Ophthalmol. Vis. Sci*. 2014; 55: 3200-3207.
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4. OCT Sub-Study Committee for the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** site investigator). Baseline OCT measurements in the idiopathic intracranial hypertension treatment trial, Part I: Quality control, comparisons, and variability. *Invest. Ophthalmol. Vis. Sci*. 2014;55:8180-8188.
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Non-Peer Reviewed Publications

Invited Commentaries and Reviews

1. **Subramanian PS.** [Active vision: the psychology of looking and seeing](#) (book review). *J. Neuroophthalmol.* 2006 Mar;26(1): 69-70.
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3. **Subramanian P:** Faculty of 1000 Medicine, 16 Apr 2009

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 13. Williams Z, **Subramanian P:** "This study demonstrates that interferon beta is not only ineffective in neuromyelitis optica (NMO) spectrum..." Evaluation of: [Shimizu J et al. IFNbeta-1b may severely exacerbate Japanese optic-spinal MS in neuromyelitis optica spectrum. Neurology. 2010 Oct 19; 75:1423-7; doi: 10.1212/WNL.0b013e3181f8832e] Faculty of 1000, 05 Jan 2011. f1000.com/6533956
 14. Williams Z, **Subramanian P:** "Treatment options for optic pathway glioma (OPG) have increased in the past two decades with..." Evaluation of: [Shofty B et al. Visual outcome following chemotherapy for progressive optic pathway gliomas. Pediatr Blood Cancer. 2011 Sep; 57(3):481-5; doi: 10.1002/pbc.22967] Faculty of 1000, 22 Feb 2011.
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 15. Williams Z, **Subramanian P:** "This study demonstrates that serum inflammatory markers (erythrocyte sedimentation rate [ESR] and C-reactive..." Evaluation of: [Hegg R et al. Statin or nonsteroidal anti-inflammatory drug use is associated with lower erythrocyte sedimentation rate in patients with giant cell arteritis. J Neuroophthalmol. 2011 Jun; 31(2):135-8; doi: 10.1097/WNO.0b013e31820c4421] Faculty of 1000, 21 Apr 2011.
f1000.com/9726956.
 16. Williams Z, **Subramanian P:** "This study, the largest optical coherence tomography (OCT) study of dominant optic atrophy (DOA) patients..." Evaluation of: [Barboni P et

al. Retinal Nerve Fiber Layer Thickness in Dominant Optic Atrophy Measurements by Optical Coherence Tomography and Correlation with Age. *Ophthalmology*. 2011 May 27; doi: 10.1016/j.ophtha.2011.02.027] Faculty of 1000, 22 Jun 2011. f1000.com/11433956

17. **Subramanian PS**, Williams Z: F1000Prime Recommendation of [Hwang TN et al., *Ophthalmology* 2011, 118(11):2286-95] In F1000Prime, 25 Aug 2011; DOI: 10.3410/f.12929956.14222054. F1000Prime.com/12929956#eval14222054
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15. **Subramanian PS**. Clinical Neuro-Ophthalmology. Patil P, editor. New York: Springer Nature; 2017. Emerging trends in optic neuritis and associated demyelinating diseases.
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5. **Subramanian PS**, Zhao J, Davé SB, Wang J. [Dyschromatopsia in multiple sclerosis patients: a marker of subclinical involvement?: comment](#). J. Neuroophthalmol. 2017 Jan 16. doi: 10.1097/WNO.0000000000000485.

ABSTRACTS (national/international, competitive)

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2. **Subramanian PS**, Schramm L, Hoffman PN. Electrical Stimulation to Enhance Axonal Regeneration after Optic Nerve Injury. 29th Annual Meeting of the North American Neuro-Ophthalmology Society, Snowbird, UT. February 2003. [oral presentation]
3. **Subramanian PS**, Goldenberg-Cohen N, Shukla S, Cheskin LJ, Miller NR. Plasma Ghrelin Levels in Patients with Idiopathic Intracranial Hypertension. 30th Annual Meeting of the North American Neuro-Ophthalmology Society, Orlando, FL. March 2004. [poster presentation]
4. **Subramanian PS**, Eiseman AS, Dick JSB II, Ward TP. Neuro-ophthalmologic Injury Patterns in Military-related Trauma. 31st Annual Meeting of the North American Neuro-Ophthalmology Society, Copper Mountain, CO. February 2005. [poster presentation]
5. **Subramanian PS**, Birdsong RH. Surgical Treatment of Strabismus Following Severe Blast-Related Trauma. 32nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2006. [poster presentation]

6. **Subramanian PS**, Colyer M, Bower K, Ward T. Mitochondrial Myopathy with Corneal Clouding. 32nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2006. [poster presentation]
7. Donnelly SJ, **Subramanian PS**. Spontaneous Venous Pulsations: Revisited. Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA. November 2007. [poster presentation]
8. Donnelly SJ, **Subramanian PS**. Incidence of Spontaneous Venous Pulsation Revisited. 34th Annual Meeting of the North American Neuro-Ophthalmology Society, Orlando, FL. March 2008. [oral presentation]
9. Almer Z, **Subramanian PS**. Don't Ignore the Obvious. Frank B. Walsh Session of the 34th Annual Meeting of the North American Neuro-Ophthalmology Society, Orlando, FL. March 2008. [oral presentation]
10. Zheng C, Kanagalingam S, Sinha D, **Subramanian PS**. Localization of Alpha-1 Adrenergic Receptors on the Optic Nerve Vasculature. International Neuro-Ophthalmology Society Meeting, Napa, CA. June 2008. [oral presentation]
11. Wu-Chen H, Christoff A, Eggenberger E, **Subramanian P**. Quantitative Diplopia Measurement and Correlation with Visual Quality of Life. 36th Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. March 2010. [poster presentation]
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13. Loo J-L, Miller N, **Subramanian P**. Use of the Optical Coherence Tomography in Predicting Post-Treatment Visual Outcome in Anterior Visual Pathway Meningiomas. 37th Annual Meeting of the North American Neuro-Ophthalmology Society, Vancouver, BC. February 2011. [poster presentation]
14. Ko F, Dibernardo C, Oak J, **Subramanian P**. Ultrasound as the Primary Diagnostic Tool of Orbital Vascular Lesions. 37th Annual Meeting of the North American Neuro-Ophthalmology Society, Vancouver, BC. February 2011. [poster presentation]
15. Katz B, Koenig C, Patel B, Kim C-H, Digre K, Warner J, Kaplan J, DiDomenico I, Neuro-Ophthalmology GCA Consortium (**Subramanian P** consortium member). Identification of *Burkholderia* in the Temporal Arteries and Blood of Patients with Giant Cell Arteritis. 37th Annual Meeting of the North American Neuro-Ophthalmology Society, Vancouver, BC. February 2011. [oral presentation]
16. **Subramanian PS**, Fonseca PL, Rigamonti D, Miller NR. Visual Outcomes of the Surgical Treatment of Idiopathic Intracranial Hypertension. 39th Annual Meeting of the North American Neuro-Ophthalmology Society, Snowbird, UT. February 2013. [poster presentation]

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18. **Subramanian P**, Fonseca P, Miller N, Rigamonti D. Visual Outcomes of the Surgical Treatment of Idiopathic Intracranial Hypertension. Annual Meeting of Association for Research in Vision and Ophthalmology. IOVS June 2013, Vol.54, 4573. [oral presentation]
19. Harris JH, Khan A, Gailloud PH, Radvany M, Moghekar AR, Solomon D, Wang J, Patel VR, **Subramanian PS**. Long-term Clinical Outcomes as a Function of BMI in Pseudotumor Cerebri Patients Who Have Been Stented for Severe Cerebral Venous Sinus Stenosis. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [poster presentation]
20. Tamhankar MA, Garrity ST, Pistilli M, Richards NQ, **Subramanian PS**, Osborne BJ, Duncan KE, Shin RK, Liu GT, Volpe NJ, Shindler KS, Lee MS, Moster ML, Vaphiades MS, Lam BL. Ophthalmic Presentation of Giant Cell Arteritis in African Americans. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [poster presentation]
21. **Subramanian PS**, Zhao J, Davé S, Wang J. Pseudoisochromatic Plate Testing: Are We Measuring Color Vision or Something Else? 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 4, 2014. [poster presentation #199]
22. Kupersmith M on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). OCT Imaging in Patients with Idiopathic Intracranial Hypertension: Explorations, Issues, Technical Difficulties, and NORDIC IIHTT Baseline Results. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [oral presentation]
23. Keltner J on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). 2014 IIHTT NANOS Symposium: Baseline Visual Field Findings. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [oral presentation]
24. Digre K on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). Quality of Life in Idiopathic Intracranial Hypertension at Diagnosis: A Prospective Study. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [oral presentation]
25. Wall M on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). The Idiopathic Intracranial Hypertension Treatment Trial: Clinical Profile at Baseline. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR. March 2014. [oral presentation]

26. **Subramanian PS**. Now You See It, Now You Don't. Frank B. Walsh Session of the 41st Annual Meeting of the North American Neuro-Ophthalmology Society, Coronado, CA. February 22, 2015. [[oral presentation](#)]
27. **Subramanian PS**, Gordon LK, Bonelli L, Arnold AC. Documented Progression of 'Impending NAION' to Permanent Visual Loss. 42nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2016. [[poster #30](#)]
28. **Sharma S**, Kwan S, Fallano K, Wang J, **Subramanian P**. Visual outcomes of diabetics and prognostic factors in non-arteritic ischaemic optic neuropathy. 42nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2016. [[poster #144](#)]
29. Moradi A, Kanagalingam S, Diener-West M, Glaros DS, **Subramanian PS**, Miller NR. Timing of non-arteritic anterior ischemic optic neuropathy (NAION) after modern cataract extraction. 42nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2016. [[poster #117](#)]
30. Wall M, Kupersmith MJ, Moss E-A, Auinger P on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). The Idiopathic Intracranial Hypertension Treatment Trial: Outcomes from Months 6-12. 42nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 2016. [oral presentation #244]
31. Sibony PA, Kupersmith MJ, Feldon SE, Wang J-K, Garvin M on behalf of the NORDIC Idiopathic Intracranial Hypertension Study Group (**Subramanian PS** study investigator). *En face* and raster SD-OCT imaging of retinal and choroidal folds in papilledema. 42nd Annual Meeting of the North American Neuro-Ophthalmology Society, Tucson, AZ. February 29, 2016. [[oral presentation #249](#)]
32. Bou Ghannam A, McCourt E, Pelak V, Bennett J, **Subramanian PS**, Smits D. A "Frosty" Altered Level of Consciousness. 43rd Annual Meeting of the North American Neuro-Ophthalmology Society, Washington, DC. April 2017. [Walsh abstract]
33. Bou Ghannam A, **Subramanian PS**. Delayed Onset Cranial Nerve Palsies After Endovascular Coil Embolization of Direct Carotid-Cavernous Fistulas. 43rd Annual Meeting of the North American Neuro-Ophthalmology Society, Washington, DC. April 2, 2017. [poster #112]
34. Lai K, **Subramanian PS**. What Do We Want? Results of the YONO 2016 Survey. 43rd Annual Meeting of the North American Neuro-Ophthalmology Society, Washington, DC. April 2017. [poster #216]
35. Bou Ghannam A, **Subramanian PS**, Bennett J, Pelak V, Lazcano Gomez G. Evaluation of Optic Disc Vascularization in Patients with NAION using Optical Coherence Tomography Angiography (OCTA). 43rd Annual Meeting of the North American Neuro-Ophthalmology Society, Washington, DC. April 2017. [[poster #152](#)]

36. Friedman D, Quiros P, **Subramanian PS**, Mejico L, McDermott M. Headache Outcomes in the Idiopathic Intracranial Hypertension Treatment Trial. 43rd Annual Meeting of the North American Neuro-Ophthalmology Society, Washington, DC. April 3, 2017. [platform session 1]

LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS (invited)

Keynote Speaker, Named Lectures

1. Artificial Vision and Vision Restoration. Joint Military Technology Symposium, Las Vegas, NV, November 2006. Keynote Speaker
2. Demyelinating Optic Neuritis- Past, Present, and Future. Royal College of Surgeons Named Lecturer. Clinical Day: 50th Anniversary Celebration of Ivey Eye Institute, London, Ontario, Canada, April 2009.
3. Increased ICP: It May be Idiopathic but is Rarely Benign. Royal College of Surgeons Named Lecturer. Clinical Day: 50th Anniversary Celebration of Ivey Eye Institute, London, Ontario, Canada, April 2009.
4. Developing a Neuro Hemifield Test. Continuing Optometric Education Program, Sankara Nethralaya, Chennai, India, January 2011. Keynote Speaker
5. Diagnosis of Carotid-Cavernous Fistulae. Continuing Optometric Education Program, Sankara Nethralaya, Chennai, India, January 2011. Keynote Speaker
6. Diplopia and Optic Neuropathy in Orbital Reconstruction. Advanced Orbital Surgery: A Tribute to the Surgery of Paul Tessier, Baltimore, MD, May 2012. Keynote Speaker
7. Optic Nerve Sheath Meningioma: Diagnosis and Treatment. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013. Keynote Lecture
8. Medical and Surgical Management of Thyroid Eye Disease. Ophthalmic Society of West Bengal, Kolkata, India, November 2013. Dr. S. C. Dutt Memorial Oration (named lecture)
9. Low Vision in Neuro-Ophthalmology. Confluence: Eye and Beyond, Hyderabad, India, December 2013. Special Guest Oration: Invited Neuro-Ophthalmology Faculty.
10. Diplopia Diagnosis. Pittsburgh Ophthalmology Society, Pittsburgh, PA, February 2015. Keynote Speaker
11. Advances in Treatment of PTC Syndrome. Pittsburgh Ophthalmology Society, Pittsburgh, PA, February 2015. Keynote Speaker
12. Movement Disorders and Eye Movement Disturbances. Madras Medical College, Chennai, India, January 2016. Keynote Speaker
13. Risk Factors for Vision Loss in PTC. Reunión Club Latinoamericano Neurooftalmología (CLAN), Medellin, Colombia, September 2016. Keynote Speaker
14. Botox in Neuro-Ophthalmology. Reunión Club Latinoamericano Neurooftalmología (CLAN), Medellin, Colombia, September 2016. Keynote Speaker
15. Role of Angiogenesis in Papilledema and CRVO. Angiogenesis Club Meeting, Narayana Nethralaya, Bengaluru, India, September 2017. Keynote Speaker

16. Advances in Giant Cell Arteritis. Angiogenesis Club Meeting, Narayana Nethralaya, Bengaluru, India, September 2017. Keynote Speaker

Visiting Professorships

1. Top Neuro-Ophthalmologic Diagnoses You Don't Want to Miss! 56th Annual Rochester Ophthalmology Conference, Rochester, NY, March 2011.
2. Carotid-Cavernous Fistulae. 56th Annual Rochester Ophthalmology Conference, Rochester, NY, March 2011.
3. Pseudotumor Cerebri: Is it Still Idiopathic? Ophthalmology Grand Rounds: The Methodist Hospital, Houston, TX, February 2012.
4. Predicting Visual Recovery in Optic Neuropathies. 70th All India Ophthalmology Congress, Kochi, India, February 2012. Distinguished Guest Faculty
5. Advances in Thyroid-Related Eye Disease. Great Lakes Neuro-Ophthalmology Meeting, East Lansing, MI, August 2012.
6. Skull Base Tumors: Meningioma. Great Lakes Neuro-Ophthalmology Meeting, East Lansing, MI, August 2012.
7. What I have Learned/My Biggest Mistakes. Great Lakes Neuro-Ophthalmology Meeting, East Lansing, MI, August 2012.
8. Advances in Thyroid Eye Disease. Endocrinology Grand Rounds, University of Maryland Medical School, Baltimore, MD, August 2012.
9. Update in Neuro-Ophthalmology. Datta Meghe Institute of Medical Sciences, Wardha, India, November 2012.
10. Advances in Thyroid Related Eye Disease. Nagpur Academy of Ophthalmology, Nagpur, India, November 2012. Distinguished Guest Faculty
11. First National Conference on Neuro-Ophthalmology (NCNO), Postgraduate Institute of Medical Research, Chandigarh, India, March 2013.
12. Pseudotumor Cerebri: Is it Still Idiopathic? First National Conference on Neuro-Ophthalmology (NCNO), Postgraduate Institute of Medical Research, Chandigarh, India, March 2013.
13. Neuroimaging in Neuro-Ophthalmology. First National Conference on Neuro-Ophthalmology (NCNO), Postgraduate Institute of Medical Research, Chandigarh, India, March 2013.
14. Advances in Thyroid-Related Eye Disease. First National Conference on Neuro-Ophthalmology (NCNO), Postgraduate Institute of Medical Research, Chandigarh, India, March 2013.
15. Clinical Approach to Anterior Visual Pathway Disorders. First National Conference on Neuro-Ophthalmology (NCNO), Postgraduate Institute of Medical Research, Chandigarh, India, March 2013.

16. Clinicoradiologic Correlations in Urgent Orbital Disease. 2nd Diagnostic Symposium on Imaging in Ophthalmology, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, September 2013.
17. Differential Diagnosis in Neuro-Ophthalmic Imaging. 2nd Diagnostic Symposium on Imaging in Ophthalmology, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, September 2013.
18. Static and Dynamic Echography in Evaluation of Orbital Vascular Lesions. 2nd Diagnostic Symposium on Imaging in Ophthalmology, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, September 2013.
19. Utility of Orbit and Brain Imaging in New-Onset Diplopia. 2nd Diagnostic Symposium on Imaging in Ophthalmology, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, September 2013.
20. Clinical and Surgical Planning in Orbital Tumor Management. 2nd Diagnostic Symposium on Imaging in Ophthalmology, King Khaled Eye Specialist Hospital, Riyadh, Saudi Arabia, September 2013.
21. Pseudotumor Cerebri: Is it Still Idiopathic? Storm Eye Institute Grand Rounds, Charleston, SC, November 2013.
22. Pseudotumor Cerebri: Is it Still Idiopathic? Montefiore Medical Center Dept of Ophthalmology Grand Rounds, Bronx, NY, January 2014.
23. Pseudotumor Cerebri - Treatment in 2014. University of Maryland Ophthalmology Grand Rounds, Baltimore, MD, November 2014.
24. Medical and Surgical Treatments of PTC Syndrome. University of Colorado Ophthalmology Grand Rounds, Aurora, CO, December 2014.
25. Thyroid Eye Disease. Sanmenxia Ophthalmology Society Meeting, Sanmenxia, China, April 2015.
26. Nystagmus. People's Liberation Army General Hospital, Beijing, China, April 2015.
27. Thyroid Eye Disease. People's Liberation Army General Hospital, Beijing, China, April 2015.
28. Diplopia: Diagnosis and Management. University of Maryland Neurology Grand Rounds, Baltimore, MD, May 2015.
29. Surgical Management of Thyroid Eye Disease. Ho Chi Minh Eye Hospital, Ho Chi Minh City, Vietnam, June 2015.
30. Treatment of Thyroid Eye Disease. Ho Chi Minh University School of Medicine and Pharmacy, Ho Chi Minh City, Vietnam, June 2015.
31. Neuroimaging for the Ophthalmologist. Ho Chi Minh University School of Medicine and Pharmacy, Ho Chi Minh City, Vietnam, June 2015.
32. Typical and Atypical Optic Neuritis. Ho Chi Minh University School of Medicine and Pharmacy, Ho Chi Minh City, Vietnam, June 2015.

33. Difficult Cases in Neuro-Ophthalmology. University of Pittsburgh Medical Center Ophthalmology Grand Rounds, Pittsburgh, PA, February 2016.
34. Thyroid Eye Disease. Cho Ray Hospital, Ho Chi Minh City, Vietnam, April 2016.
35. Traumatic Optic Neuropathy. Cho Ray Hospital, Ho Chi Minh City, Vietnam, April 2016.
36. Functional Imaging in Neuro-Ophthalmology. Cho Ray Hospital, Ho Chi Minh City, Vietnam, April 2016.
37. Case Presentations. University of Minnesota Ophthalmology Grand Rounds, Minneapolis, MN, October 2017.
38. The Eye and Vision in Microgravity. University of Copenhagen, Copenhagen, Denmark, October 2017.
39. The Eye and Vision in Microgravity. National Eye Institute/Walter Reed National Military Medical Center Combined Grand Rounds. Bethesda, MD. Feb 2018.
40. Managing Cranial Nerve 3, 4, and 6 Palsies. 90th Annual Spring Postgraduate Conference: Challenges in Neuro-Ophthalmology, Kellogg Eye Center, University of Michigan, Ann Arbor, MI. June 2, 2018.
41. Interpreting Ancillary Testing in Neuro-Ophthalmology (OCT, VEP, ERG). 90th Annual Spring Postgraduate Conference: Challenges in Neuro-Ophthalmology, Kellogg Eye Center, University of Michigan, Ann Arbor, MI. June 2, 2018.
42. Approach to Unexplained Vision Loss. 90th Annual Spring Postgraduate Conference: Challenges in Neuro-Ophthalmology, Kellogg Eye Center, University of Michigan, Ann Arbor, MI. June 2, 2018.

Local Lectures and Presentations

1. Enhancing Optic Nerve Regeneration after Axonal Injury. 62nd Clinical Meeting of the Wilmer Residents' Association, Baltimore, MD, May 2003.
2. Plasma Ghrelin Levels in Patients with Idiopathic Intracranial Hypertension. 63rd Clinical Meeting of the Wilmer Residents' Association, Baltimore, MD, May 2004.
3. The Man Who Saw Double. Alper Neuro-Ophthalmology Lecture Series, Washington National Eye Center, Washington, DC, October 2004.
4. Ocular Injuries on the Modern Battlefield. VA Medical Center Neurology Grand Rounds, Washington, DC, June 2005.
5. Idiopathic Intracranial Hypertension- What's New? National Capital Consortium Neurology Grand Rounds, Washington, DC, August 2005.
6. Neuro-ophthalmic Injuries in Modern Warfare. Wilmer Eye Institute Grand Rounds, Baltimore, MD, December 2005.
7. Optic Neuritis, Optic Neuropathies, and Disc Swelling. Annual Review Course and CE Course for Ophthalmic Medical Personnel, Washington, DC, May 2006.

8. Nystagmus: Diagnosis and Management. National Capital Consortium Neurology Grand Rounds, Washington, DC, October 2006.
9. Visual Field Defects in Neuro-Ophthalmology. Annual Review Course and CE Course for Ophthalmic Medical Personnel Washington, DC, May 2007.
10. Visual Field Defects in Neuro-Ophthalmologic Disease. Maryland Society of Eye Physicians and Surgeons Annual Meeting, Baltimore, MD, May 2008.
11. Botulinum Toxin in the Management of Neuro-Ophthalmologic Disease. Maryland Society of Eye Physicians and Surgeons Annual Meeting, Baltimore, MD, May 2010.
12. Thyroid-related Eye Disease. Alper Lecture Series in Neuro-Ophthalmology, Washington, DC, September 2010.
13. Mimickers of the Red Eye. Maryland Society of Eye Physicians and Surgeons Annual Meeting, Baltimore, MD, May 2011.
14. Pseudotumor Cerebri: Is it Still Idiopathic? Alper Lecture Series in Neuro-Ophthalmology, Washington, DC, October 2011.
15. Visual Outcomes in Skull Base Tumor Treatment. Johns Hopkins Department of Neurosurgery Grand Rounds, Baltimore, MD, March 2015.
16. Medical Management of Thyroid Eye Disease. Suburban Hospital Grand Rounds, Baltimore, MD, May 2013.
17. Papilledema: What's New for the Neurosurgeon? Johns Hopkins Department of Neurosurgery Grand Rounds, Baltimore, MD, March 2015.
18. Pupillary Disorders: When Should I Worry? University of Colorado Neurology Grand Rounds, Aurora, CO, September 2015.
19. Management of Anterior Ischemic Optic Neuropathy. 17th University of Colorado Ophthalmology Symposium, Aurora, CO, September 2015.
20. Microgravity and the Eye. University of Colorado Ophthalmology Grand Rounds, Aurora, CO, March 2017.

Regional Lectures and Presentations

1. Management of the Red Eye. Eisenhower Army Medical Center Grand Rounds, Augusta, GA, October 2005.
2. Optic Neuritis Update 2007. Current Concepts in Ophthalmology, Baltimore, MD, December 2007.
3. Functional Neuro-Imaging in Neuro-Ophthalmology. Current Concepts in Ophthalmology, Baltimore, MD, December 2008.
4. Graves' Eye Disease: Ophthalmology-Endocrine Collaboration in Care. 13th Current Concepts in Thyroid Disease: Horizons in Thyroidology, Baltimore, MD, March 2009.
5. New Strategies in the Management of Thyroid Eye Disease. Current Concepts in Ophthalmology, Baltimore, MD, November 2009.

6. New Treatments for Ischemic Optic Neuropathy. Current Concepts in Ophthalmology, Baltimore, MD, December 2010.
7. Predicting Visual Recovery in Optic Neuropathies. Current Concepts in Ophthalmology, Baltimore, MD, December 2011.
8. Venous Sinus Stenosis and its Treatment in Pseudotumor Cerebri. Current Concepts in Ophthalmology, Baltimore, MD, December 2012.
9. Advances in Thyroid Eye Disease Management. Oregon Academy of Ophthalmology Post Graduate Convention, Portland, OR, March 2013.
10. Atypical Optic Neuritis. Oregon Academy of Ophthalmology Post Graduate Convention, Portland, OR, March 2013.
11. Neuro-Ophthalmology of Skull Base Tumors. Oregon Academy of Ophthalmology Post Graduate Convention, Portland, OR, March 2013.
12. Challenging Cases in Neuro-Ophthalmology. Oregon Academy of Ophthalmology Post Graduate Convention, Portland, OR, March 2013.
13. Double Trouble: Diplopia in Adults. Nebraska Academy of Eye Physicians and Surgeons Annual Fall Meeting, Omaha, NE, September 2017. Invited Faculty
14. Optic Neuritis: What's New in Diagnosis and Treatment. Nebraska Academy of Eye Physicians and Surgeons Annual Fall Meeting, Omaha, NE, September 2017. Invited Faculty
15. NAION Management and Treatment. Minnesota Eye Society Annual Meeting, Minneapolis, MN, October 2017. Invited Faculty
16. What's New in Myasthenia Gravis? Minnesota Eye Society Annual Meeting, Minneapolis, MN, October 2017. Invited Faculty

National Lectures and Presentations

1. Basic Neuro-ophthalmology Instruction Course: evaluation of the optic disc, use of new technologies for diagnosis of optic nerve disease. Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, October 2005.
2. Optic Neuritis. Annual Meeting of the Joint Commission on Allied Health Personnel in Ophthalmology, Chicago, IL, October 2005.
3. Ophthalmic War Surgery - Between Iraq and a Hard Place: orbital repair and enucleation. Annual Meeting of the American Academy of Ophthalmology, Las Vegas, NV, November 2006.
4. Neuroimaging in the Diagnosis of IHH. Current Concepts in Ophthalmology: A Forum for Global Ophthalmic Innovators, Baltimore, MD, April 2007.
5. Idiopathic Intracranial Hypertension. Annual Meeting of the Joint Commission on Allied Health Personnel in Ophthalmology, New Orleans, LA, November 2007.
6. Thyroid Eye Disease. Breakfast with the Experts, Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2007.

7. Optic Disc Swelling: Differential Diagnosis. Neuro-ophthalmology Subspecialty Day Program, Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2007.
8. Ophthalmic War Surgery - Between Iraq and a Hard Place: orbital repair and enucleation. Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2007.
9. Intracranial Causes of 'Glaucoma'. Neuro-Ophthalmology Symposium, Annual Meeting of the American Academy of Ophthalmology, Atlanta, GA, November 2008.
10. Idiopathic Intracranial Hypertension: Diagnosis and Treatment in 2008. Annual Meeting of the American Academy of Ophthalmology, Atlanta, GA, November 2008.
11. Spontaneous Venous Pulsations: Revisited. Best of Posterior Segment Papers session, Annual Meeting of the American Academy of Ophthalmology, Atlanta, GA, November 2008.
12. Idiopathic Intracranial Hypertension. Annual Meeting of the Joint Commission on Allied Health Personnel in Ophthalmology, Atlanta, GA, November 2008.
13. Realities of TBI Treatment in Returning Soldiers from Afghanistan and Iraq. 35th Annual Meeting of the North American Neuro-Ophthalmology Society, Lake Tahoe, NV, February 2009.
14. Idiopathic Intracranial Hypertension. Senior Instructor. Annual Meeting of the American Academy of Ophthalmology, San Francisco, CA, October 2009.
15. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, October 2010.
16. Management of Idiopathic Intracranial Hypertension and Cerebral Venous Abnormality. Spotlight Session on Neuro-Ophthalmology, Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, October 2010.
17. Meningioma: Surgical Approaches, Future Directions. 38th Annual Meeting of the North American Neuro-Ophthalmology Society, February 2012, San Antonio, TX.
18. Vision-Related Disorders in NF2. Children's Tumor Foundation NF Forum, New Orleans, LA, June 2012.
19. Papilledema. Space Life Sciences Research Conference, Baltimore, MD, August 2012.
20. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, November 2012.
21. What is Telemedicine, and How is it Relevant to Neuro-Ophthalmology. 39th Annual Meeting of the North American Neuro-Ophthalmology Society, Snowbird, UT, February 2013.
22. Clinical Course of Orbital Lymphatic Malformations. Pediatric Ophthalmology Subspecialty Day, Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2013.

23. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2013.
24. Do Astronauts Develop Papilledema? Unraveling VIIP Etiology: An Exploratory Symposium, Houston, TX, February 2014.
25. Disc Swelling, Ocular Blood Flow, and 'VIIP'. Unraveling VIIP Etiology: An Exploratory Symposium, Houston, TX, February 2014.
26. Skull Base Tumors and Visual Outcomes. 40th Annual Meeting of the North American Neuro-Ophthalmology Society, Rio Grande, PR, March 2014.
27. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, November 2014.
28. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, Las Vegas, NV, November 2015.
29. IOP, ICP, and Papilledema. New Orleans Academy of Ophthalmology, 65th Annual Meeting, New Orleans, LA, February 2016.
30. Venous Sinus Stenosis/Thrombosis in PTC. New Orleans Academy of Ophthalmology, 65th Annual Meeting, New Orleans, LA, February 2016.
31. Diplopia and Visual QoL. New Orleans Academy of Ophthalmology, 65th Annual Meeting, New Orleans, LA, February 2016.
32. Medical and Surgical Management of TRO. New Orleans Academy of Ophthalmology, 65th Annual Meeting, New Orleans, LA, February 2016.
33. The Swollen Optic Nerve. Roundtable Moderator, New Orleans Academy of Ophthalmology, 65th Annual Meeting, New Orleans, LA, February 2016.
34. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, Chicago, IL, October 2016.
35. Swollen Discs, Headache, and Vision Loss: What's New in Idiopathic Intracranial Hypertension. Annual Meeting of the American Academy of Ophthalmology, New Orleans, LA, November 2017.

International Lectures and Presentations

1. Functional Neuroimaging in Neuro-ophthalmology. Asia-Association for Research in Vision and Ophthalmology, Hyderabad, India, January 2009.
2. Neuroprotection: Basic Science Concepts. Asia-Association for Research in Vision and Ophthalmology, Hyderabad, India, January 2009.
3. HIV Disorders in Neuro-ophthalmology. International Neuro-Ophthalmology Update, Chennai, India, January 2009.

4. Developing a Neuro Hemifield Test. World Ophthalmology Congress 2010, Berlin, Germany, June 2010.
5. Neuro-ophthalmic Manifestations of Paraneoplastic Disorders. 69th All India Ophthalmology Congress, Ahmedabad, India, January 2009.
6. Medical and Surgical Management of Thyroid Disease. 69th All India Ophthalmology Congress, Ahmedabad, India, January 2009.
7. Orbital Decompression 69th All India Ophthalmology Congress, Ahmedabad, India, January 2009.
8. Optic Neuritis- Diagnostic Dilemmas. 29th Pan American Congress of Ophthalmology, Buenos Aires, Argentina, July 2011.
9. Horner Syndrome. 29th Pan American Congress of Ophthalmology, Buenos Aires, Argentina, July 2011.
10. Nanoparticles and Neuro-Ophthalmology. Annual Meeting of the Asia-Pacific Academy of Ophthalmology, Busan, South Korea, April 2012.
11. Neuroimaging of the Orbit and Optic Nerve. Annual Meeting of the Asia-Pacific Academy of Ophthalmology, Busan, South Korea, April 2012.
12. Vision Loss: Again and Again. Annual Meeting of the Asia-Pacific Academy of Ophthalmology, Busan, South Korea, April 2012.
13. Radiation Therapy for Thyroid Orbitopathy: Pro. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and All-India Ophthalmology Society, Hyderabad, India, January 2013.
14. Stem Cells: Should I Refer My Patients? Joint Meeting of the Asia-Pacific Academy of Ophthalmology and All-India Ophthalmology Society, Hyderabad, India, January 2013.
15. Ptosis, Diplopia, and Anisocoria: Occasionally. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and All-India Ophthalmology Society, Hyderabad, India, January 2013.
16. Evaluation of CN III Palsy: Urgent! Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013.
17. Atypical Optic Neuritis. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013.
18. Isolated Cranial Nerve Palsies. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013.
19. Burkholderia and Giant Cell Arteritis. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013.
20. Initial Results of QPI-1007 in Treatment of NAION. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013.
21. Surgical Treatment of IIH. Argentine Council of Ophthalmology Jornadas, Buenos Aires, Argentina, May 2013. [Webinar]

22. Compressive optic neuropathies. 30th Pan-American Congress of Ophthalmology, Rio de Janeiro, Brazil, August 2013.
23. Pediatric Vascular Malformations. World Ophthalmology Congress, Tokyo, Japan, April 2014.
24. Challenging Cases in Neuro-Ophthalmology. World Ophthalmology Congress, Tokyo, Japan, April 2014. Panelist and Speaker
25. Optic Neuritis. 5th Biennial Imperial City Eye Meeting, Hue, Vietnam, April 2014.
26. Functional Vision Loss. 5th Biennial Imperial City Eye Meeting, Hue, Vietnam, April 2014.
27. Diplopia. 5th Biennial Imperial City Eye Meeting, Hue, Vietnam, April 2014.
28. Papilledema and Pseudotumor Cerebri. 3rd Annual Chinese Neuro-Ophthalmology Society Meeting, Suzhou, China, June 2014.
29. Typical and Atypical Optic Neuritis. 6th Neuro-Ophthalmology Update, Aravind Eye Care System, Madurai, India, July 2014.
30. Functional Vision Loss. 6th Neuro-Ophthalmology Update, Aravind Eye Care System, Madurai, India, July 2014.
31. Pseudotumor Cerebri: Diagnosis & Management. 6th Neuro-Ophthalmology Update, Aravind Eye Care System, Madurai, India, July 2014.
32. Diplopia and Ptosis- Uncommon Causes. Reunión Club Latinoamericano Neurooftalmología (CLAN), Buenos Aires, Argentina, September 2014.
33. Surgical Treatment of Pseudotumor Cerebri. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and Chinese Ophthalmology Society, Guangzhou, China, April 2015.
34. Thyroid Eye Disease- Efferent Problems. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and Chinese Ophthalmology Society, Guangzhou, China, April 2015.
35. Atypical Optic Neuritis. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and Chinese Ophthalmology Society, Guangzhou, China, April 2015.
36. A Simple Case of Ischemic Optic Neuropathy. Joint Meeting of the Asia-Pacific Academy of Ophthalmology and Chinese Ophthalmology Society, Guangzhou, China, April 2015.
37. Transient Monocular Blindness. 31st Congress of the Pan American Association of Ophthalmology, Bogotá, Colombia, August 2015.
38. Optic Neuritis and Optic Atrophy. 31st Congress of the Pan American Association of Ophthalmology, Bogotá, Colombia, August 2015.
39. Pseudotumor Cerebri: Diagnosis and Treatment Advances. 31st Congress of the Pan American Association of Ophthalmology, Bogotá, Colombia, August 2015. Senior Instructor
40. Diplopia Diagnosis and Management. 2nd Myanmar Eye Meeting, Hawaiian Eye Foundation, Yangon Eye Hospital, Yangon, Myanmar, August 24-27, 2015.

41. Typical and Atypical Optic Neuritis. 2nd Myanmar Eye Meeting, Hawaiian Eye Foundation, Yangon Eye Hospital, Yangon, Myanmar, August 24-27, 2015.
42. Nystagmus. 2nd Myanmar Eye Meeting, Hawaiian Eye Foundation, Yangon Eye Hospital, Yangon, Myanmar, August 24-27, 2015.
43. The Role of Cerebral Venous Sinus Disease in High ICP. Reunión Club Latinoamericano Neurooftalmología (CLAN), Concepción, Chile, September 2015.
44. Sequential Vision Loss in an Elderly Woman. Reunión Club Latinoamericano Neurooftalmología (CLAN), Concepción, Chile, September 2015.
45. Transient Visual Loss: Is My Patient Having a Stroke? Symposium in Neuro-Ophthalmology: Afferents Plus Efferents (Synapse 2k16), Advances in Neuro-Ophthalmology, Chennai, India, January 2016.
46. Cancer-Associated Vision Loss. Symposium in Neuro-Ophthalmology: Afferents Plus Efferents (Synapse 2k16), Advances in Neuro-Ophthalmology, Chennai, India, January 2016.
47. Atypical Optic Neuritis. Symposium in Neuro-Ophthalmology: Afferents Plus Efferents (Synapse 2k16), Advances in Neuro-Ophthalmology, Chennai, India, January 2016.
48. Surgical Treatment of Pseudotumor Cerebri. World Ophthalmology Congress, Guadalajara, Mexico, February 2016.
49. A Toothache that Wouldn't Go Away. World Ophthalmology Congress, Guadalajara, Mexico, February 2016.
50. Approach to the Patient with Ptosis. World Ophthalmology Congress, Guadalajara, Mexico, February 2016.
51. Thyroid Eye Disease: Are There Any Rules? World Ophthalmology Congress, Guadalajara, Mexico, February 2016.
52. Management of Thyroid Eye Disease. 31st Asia-Pacific Academy of Ophthalmology Annual Congress, Taipei, Taiwan, April 2016. International Coordinator
53. Proptosis and More. 31st Asia-Pacific Academy of Ophthalmology Annual Congress, Taipei, Taiwan, April 2016. International Coordinator
54. Examination of the Pupil. 31st Asia-Pacific Academy of Ophthalmology Annual Congress, Taipei, Taiwan, April 2016. International Coordinator
55. Orbital Vascular Malformations. 6th Biennial Imperial City Eye Meeting, Hue, Vietnam, April 2016.
56. Mechanical/Myopathic Strabismus. Middle East Africa Congress of Ophthalmology, Manama, Bahrain, May 2016.
57. Third Nerve Palsy. Middle East Africa Congress of Ophthalmology, Manama, Bahrain, May 2016.
58. Differential Diagnosis in Neuro-Ophthalmology. Middle East Africa Congress of Ophthalmology, Manama, Bahrain, May 2016.

59. A Case of Sequential Vision Loss. Middle East Africa Congress of Ophthalmology, Manama, Bahrain, May 2016.
60. Papilledema vs pseudopapilledema. Update in Neuro-Ophthalmology, Aravind Eye Hospital, Coimbatore, India, July 2016.
61. Update on Optic Neuritis Treatment. Update in Neuro-Ophthalmology, Aravind Eye Hospital, Coimbatore, India, July 2016.
62. Transient Vision Loss. Update in Neuro-Ophthalmology, Aravind Eye Hospital, Coimbatore, India, July 2016.
63. An Approach to Orbital Disease. Update in Neuro-Ophthalmology, Aravind Eye Hospital, Coimbatore, India, July 2016.
64. Treatment of NAION. 75th All-India Ophthalmology Society Conference, Jaipur, India, February 2017. Invited International Guest Speaker
65. Transient Visual Loss: Diagnosis and Management. 75th All-India Ophthalmology Society Conference, Jaipur, India, February 2017. Invited International Guest Speaker
66. Visual Field Defects in Neuro-Ophthalmology. 75th All-India Ophthalmology Society Conference, Jaipur, India, February 2017. Invited International Guest Speaker
67. Con: Venous Sinus Stenting for PTC. 32nd Asia-Pacific Academy of Ophthalmology Annual Congress, Singapore, Republic of Singapore, March 2017. Invited Faculty
68. What's New in Neuroimaging. 32nd Asia-Pacific Academy of Ophthalmology Annual Congress, Singapore, Republic of Singapore, March 2017. Invited Faculty
69. Intermittent Diplopia: OMG or Something Else? 32nd Asia-Pacific Academy of Ophthalmology Annual Congress, Singapore, Republic of Singapore, March 2017. Invited Faculty
70. The Elevated Optic Disc: Papilledema or Pseudopapilledema. 25th Annual Meeting of the Lebanese Ophthalmological Society, Beirut, Lebanon, May 2017. Invited Faculty
71. The Swollen Optic Disc: Ischemia, Inflammation, or What? 25th Annual Meeting of the Lebanese Ophthalmological Society, Beirut, Lebanon, May 2017. Invited Faculty
72. Giant Cell Arteritis: What is New? 25th Annual Meeting of the Lebanese Ophthalmological Society, Beirut, Lebanon, May 2017. Invited Faculty
73. Giant Cell Arteritis. European Society of Ophthalmology Meeting, Barcelona, Spain, June 2017. Invited Faculty
74. Myasthenia Gravis. European Society of Ophthalmology Meeting, Barcelona, Spain, June 2017. Invited Faculty
75. Photopsias. European Society of Ophthalmology Meeting, Barcelona, Spain, June 2017. Invited Faculty
76. Con: Neuroimaging for Cranial Nerve Palsy. 33rd Congress of the Pan American Association of Ophthalmology, Lima, Perú, August 2017. Invited Faculty
77. Management of NAION. 33rd Congress of the Pan American Association of Ophthalmology, Lima, Perú, August 2017. Invited Faculty

78. Neuroimaging in Neuro-Ophthalmology. 3rd Myanmar Eye Meeting, Yangon, Myanmar, September 2017. Invited Faculty
79. Emergency Neuro-Ophthalmology. 3rd Myanmar Eye Meeting, Yangon, Myanmar, September 2017. Invited Faculty
80. Eye movements and Movement Disorders. 3rd Myanmar Eye Meeting, Yangon, Myanmar, September 2017. Invited Faculty
81. Common Optic Neuropathies. 3rd Myanmar Eye Meeting, Yangon, Myanmar, September 2017. Invited Faculty
82. Pro: Use of Immunosuppression in OMG. XXVII Reunión del Club Latinoamericano de Neurooftalmología (CLAN), Los Angeles, CA, October 2017. Invited Faculty
83. Pro: NAION Is Associated with Vitreopapillary Traction. XXVII Reunión del Club Latinoamericano de Neurooftalmología (CLAN), Los Angeles, CA, October 2017. Invited Faculty
84. The Role of VZV in Giant Cell Arteritis. 33rd Asia-Pacific Academy of Ophthalmology Annual Congress, Hong Kong SAR, China. February 8, 2018.
85. “My Pupil is Small.” “No It’s Not, It’s Really too Big!” 33rd Asia-Pacific Academy of Ophthalmology Annual Congress, Hong Kong SAR, China. February 10, 2018.
86. Ocular Motor Issues in Traumatic Brain Injury. 33rd Asia-Pacific Academy of Ophthalmology Annual Congress, Hong Kong SAR, China. February 10, 2018.
87. PRO: Corticosteroids Should Be Used in the Treatment of NAION. World Ophthalmology Congress, Barcelona, Spain, June 18, 2018. [presentation 6847]
88. Diplopia - History and Exam. World Ophthalmology Congress, Barcelona, Spain, June 18, 2018. [presentation 7151]

TEACHING

Medical Students

Uniformed Services University of the Health Sciences

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| 1997 – 2005 | Principles of Ocular Fundoscopy, MS-II, annually |
| 1998 – 2006 | Ocular Trauma Lab, MS-IV, annually |
| 2003 – 2007 | Ethics and Genetic Discrimination, annually |

Walter Reed Army Medical Center, Uniformed Services University of the Health Sciences

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| 2004 – 2007 | Intro to Ophthalmology, 2-week rotation, MS-III, annually |
| 2004 – 2007 | Acute eye diseases and their management, MS-III, quarterly |

Johns Hopkins University School of Medicine

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| 2007 – 2010 | Optic nerve evaluation and optic neuropathy, elective lecture, quarterly |
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- 2010 – 2012 Optic neuropathy and its causes, learning exercise, Genes to Society Curriculum, Neuroscience/Special Senses section, annually
- 2010 – 2015 Optic nerve, normal and diseased, and pupillary function, lecture, Genes to Society Curriculum, Neuroscience/Special Senses section, annually
- 2010 – 2015 Visual field/anterior pathway disease, lab & learning exercise, Genes to Society Curriculum, Neuroscience/Special Senses section, annually

University of Colorado School of Medicine

- 2015 – Preceptor, Foundations of Doctoring, MS-II, annually

House Staff

Walter Reed Army Medical Center

- 2001 – 2002 Cataract Surgery, PGY-3, PGY-4, 4 hours/week
- 2001 – 2002 Clinical teaching & supervision, PGY-2, 40+ hours/week
- 2001 – 2007 Neuro-ophthalmology, lectures, Ophthalmology Residents, 10-15 hours annually
- 2001 – 2007 Neuro-ophthalmology and neurology, lectures, Neurology Residents, 2 hours annually
- 2003 – 2007 Clinical teaching & supervision, neuro-ophthalmology clinic, PGY-3, 16 hours/week
- 2003 – 2007 Surgical instruction & supervision, PGY-2, 4 hours/week

Uniformed Services University of the Health Sciences

- 2002 – 2006 Tri-Service Cataract Surgery Course, Lectures & Wet Lab, annually
- 2002 – 2014 Military Ocular Trauma Course, Lectures & Wet Lab, annually

Washington DC Ophthalmology Residency Consortium, George Washington University School of Medicine

- 2003 – 2009 Introductory Course in Ophthalmology, lectures and lab, PGY-2
- 2003 – 2009 Neuro-Ophthalmology lectures

Wilmer Eye Institute, Johns Hopkins University School of Medicine

- 2007 – 2015 Neuro-Ophthalmology, lectures, 4-5 hours, annually
- 2007 – 2015 Clinical teaching & supervision, neuro-ophthalmology, ophthalmology and neurology residents, 30 hours/week
- 2007 – 2015 Surgical instruction, orbital, skull base, and strabismus surgery, residents and fellows, 4 hours/week

2011 – 2015 Creation of neuro-ophthalmic education curriculum, Division Education Champion

Department of Ophthalmology, University of Colorado School of Medicine

2015 – Clinical teaching & supervision, neuro-ophthalmology, ophthalmology and neurology residents, 12 hours/week

2015 – Surgical instruction, orbital and strabismus surgery, ophthalmology residents, 4 hours/week

Other Teaching & Courses

2014 **Subramanian PS**, Costello FE, Jirawuthivorawong GV. [Acute demyelinating optic neuritis](#). O.N.E Network of the American Academy of Ophthalmology. 2014 September. [CME education course]

2015 Givre SJ, **Subramanian PS**, Grosser SJ. [Focal Points 2015 Module: Ancillary Testing in Neuro-ophthalmology](#). American Academy of Ophthalmology. 2015 September. [eBook, CME education]