

**Prem Sagar Subramanian, M.D., Ph.D.**

Wilmer B-31, Wilmer Eye Institute  
600 North Wolfe Street  
Baltimore, Maryland 21287  
(410) 955-8679

**CURRENT TITLES:** Visiting Associate Professor of Ophthalmology  
The Johns Hopkins University School of Medicine  
Baltimore, Maryland

Associate Professor of Surgery  
Uniformed Services University of the Health Sciences  
Bethesda, Maryland

**EDUCATION:**

1997      **Doctor of Medicine with High Honor**  
BAYLOR COLLEGE OF MEDICINE  
Houston, Texas

1995      **Doctor of Philosophy in Molecular and Human Genetics**  
"Replication timing and chromatin structural properties at the human *HPRT*  
and fragile X syndrome loci"  
BAYLOR COLLEGE OF MEDICINE  
Houston, Texas

1989      **Bachelor of Arts in Chemistry, Summa cum Laude**  
PRINCETON UNIVERSITY  
Princeton, New Jersey

**PROFESSIONAL  
TRAINING:**

2002-2003      **Fellowship, Neuro-Ophthalmology**  
WILMER EYE INSTITUTE (Neil R. Miller, MD)  
Baltimore, Maryland

2000-2001      **Chief Residency, Ophthalmology**  
WALTER REED ARMY MEDICAL CENTER  
Washington, District of Columbia

1998-2000      **Ophthalmology Residency**  
WALTER REED ARMY MEDICAL CENTER  
Washington, District of Columbia

1997-1998      **Transitional Internship**  
WALTER REED ARMY MEDICAL CENTER  
Washington, District of Columbia

**MILITARY SERVICE:**

1997-2007      **Active Duty**  
Lieutenant Colonel, Medical Corps, United States Army  
Honorable Discharge, 1 Jul 2007

1989-1997

**Individual Ready Reserve**

Medical Service Corps, United States Army

**HONORS  
AND ACTIVITIES:**

McCay Prize in Physical Chemistry, Princeton Univ.  
NSF Summer Research Fellowship, Princeton Univ.  
Distinguished Military Graduate, Princeton Army ROTC  
Chairman's Award, University Scholarships Canada  
Sigma Xi Research Honor Society  
Overall Honors in Basic Sciences, Baylor College of Med.  
Alpha Omega Alpha Medical Honor Society  
Lange Medical Publications Award  
Outstanding MSTP Graduate, Baylor College of Med.  
MSTP Research Symposium, Selected Platform Speaker (1993, 1994)  
Top Intern in Pediatrics 1997-98, Walter Reed Army Medical Center  
Outstanding Transitional Intern 1997-98, Walter Reed Army Medical Center  
Meritorious Service Medal, United States Army, 2002  
Army Commendation Medal, United States Army, 2006

**MEMBERSHIPS:**

Sigma Xi  
American Academy of Ophthalmology (AAO)  
North American Neuro-ophthalmology Society (NANOS)

**PROFESSIONAL  
SERVICE:**

Associate Examiner, American Board of Ophthalmology  
NANOS Research Committee  
NANOS Scientific Program Committee  
WRAMC Quality Assurance Committee  
WRAMC Interdepartmental Curriculum Committee

**PUBLICATIONS:  
(limited)**

**Subramanian P**, Burgmayer S, Richards S, Szalai V, Spiro TG (1990). Resonance Raman signatures of oxomolybdenum thiolate and dithiolene models of molybdenum proteins. *Inorg. Chem.* **29**: 3849-3853.

**Subramanian PS**, Versalovic J, McCabe ERB, Lupski JR (1991). Rapid mapping of E. coli: Tn5 insertion mutations by REP-Tn5 PCR. *PCR Meth. Appl.* **1**:187-194.

Virta-Pearlman V, Pearlman J, **Subramanian P** (1991). Rapid and efficient isolation of viral and yeast DNA. *FASEB J.*, A564.

**Subramanian PS**, Nelson DL, Chinault AC. (1996) Large domains of apparent delayed replication timing associated with triplet repeat expansions at FRAXA and FRAXE. *Am. J. Hum. Genet.* **59**:407-416.

**Subramanian PS**, Chinault AC. (1997) Replication timing and domain architecture of the human *HPRT* locus on active, inactive, and reactivated X chromosomes. *Somat. Cell Mol. Genet.* **23**:97-109.

**Subramanian PS**, O'Kane B, Stefanik R, Stevens J, Rabin J, Bauer RM, Bower KS. (2003) Visual performance with night vision goggles after photorefractive keratectomy for myopia. *Ophthalmology* **100**:525-530.

**Subramanian PS**, Kerrison JB, Calvert PC, Miller NR. (2003) Orbital inflammatory disease after pamidronate treatment for metastatic prostate cancer. *Arch. Ophthalmol.* **121**:1335-1336.

**Subramanian PS**, Bressler NM, Miller NR. (2004) Radiation retinopathy after fractionated stereotactic radiotherapy for optic nerve sheath meningioma. *Ophthalmology* **111**:567-569.

**Subramanian PS**, Goldenberg-Cohen N, Shukla S, Cheskin LJ, Miller NR. (2004) Plasma ghrelin levels are normal in obese patients with idiopathic intracranial hypertension (pseudotumor cerebri). *Am. J. Ophthalmol.* **138**:109-113.

Han PJ, Shukla S, **Subramanian PS**, Hoffman PN. (2004) The influence of dibutyryl cyclic AMP on axonal elongation potential. *Exp. Neurol.* **189**:293-302.

Hammond MD, Ward TP, Katz B, **Subramanian PS**. (2004) Elevated intracranial pressure associated with idiopathic retinal vasculitis, aneurysms, and neuroretinitis (IRVAN) syndrome. *J. Neuroophthalmol.* **24**:221-224.

**Subramanian PS**, Gailloud PH, Heck DV, Tamargo RJ, Murphy KJ, Miller NR. (2005) Cook detachable coil embolization of a symptomatic, isolated orbital arteriovenous fistula via a superior ophthalmic vein approach. *Neuroradiology* **47**:62-65.

Burka JM, Bower KS, Cute DL, Stutzman RD, **Subramanian PS**, Rabin JC. (2005) Comparison of two techniques of marking the horizontal axis during excimer laser keratorefractive surgery for myopic astigmatism. *Am. J. Ophthalmol.* **139**:735-737.

**Subramanian PS**, Renard V, Tamargo RJ, Miller NR. (2005) Delayed progressive visual loss following cotton wrapping of bilateral clinoidal aneurysm: recovery of vision and improvement in neuroimaging during corticosteroid treatment. *Br. J. Ophthalmol.* **89**:1666-1668.

Bower KS, Burka JM, **Subramanian PS**, Stutzman RD, Mines MJ, Rabin JC. (2006) Night firing range performance following PRK and LASIK. *Mil. Med.* **171**:468-471.

**Subramanian PS**. (2006) Active vision: the psychology of looking and seeing (book review). *J. Neuroophthalmol.* **26**:69-70.

Brooks DB, **Subramanian PS**. (2006) Anomalous variant of septo-optic dysplasia. *J. Neuroophthalmol.* **26**:195-196.

**Subramanian PS**, Gailloud PH, Heck DV, Tamargo RJ, Murphy KJ, Miller NR. (2006) Embolization of an arteriovenous fistula (letter). *J. Neurosurg.* **105**:797.

Colyer MA, Bower KS, Ward TP, Hidayat A, **Subramanian PS**. (2007) Mitochondrial myopathy presenting with posterior keratopathy and segmental corneal clouding. *Br. J. Ophthalmol.* **91**:696-697.

**Subramanian PS**, Birdsong RH. (2007) Surgical management of traumatic strabismus after combat-related trauma. *Am. J. Ophthalmol.*, submitted.

Weber ED, Colyer MA, Lesser RL, **Subramanian PS**. (2007) Posterior ischemic optic neuropathy after minimally-invasive prostatectomy. *J. Neuroophthalmol.*, submitted.

**BOOK CHAPTERS:**    **Subramanian PS.** Bacteria and bacterial diseases. *In* Walsh & Hoyt's Clinical Neuro-Ophthalmology, 6<sup>th</sup> ed., edited by Miller NR, Newman NJ, Biousse V, Kerrison JB. Baltimore, Lippincott Williams & Wilkins, 2004. pp. 2647-2773.

**RESEARCH FUNDING:**

- Applied**            Dysthyroid Orbitopathy and its Effects on Cognitive Function. Pilot Grant from North American Neuro-Ophthalmology Society, \$25,000.
  
- Ongoing**            Incidence of Spontaneous Venous Pulsations: Revisited. Funded by Department of Clinical Investigation, Walter Reed Army Medical Center, \$7500.
  
- Completed**        Enhancing Optic Nerve Regeneration after Axonal Injury, funded by unrestricted grant from Pharmacia Corporation. \$2,000. Completed June 2003.
  
- Expression of Markers of Vascular Proliferation in Human Choroidal Neovascular Membranes. WU #00-2302, funded by Department of Clinical Investigation, Walter Reed Army Medical Center. \$10,500. Completed July 2002.