

## Curriculum Vitae

**Kimberly P. Cockerham, MD, FACS**

**Neuro – Orbit – Plastics**

**Ophthalmology**

**Associate Clinical Professor, Department of Ophthalmology  
Stanford University**

Academic Practice

Stanford Eye Center

300 Pasteur Drive

Stanford, California 94305

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Palo Alto Veteran's Hospital

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762 Altos Oaks, Suite 2

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### EDUCATION:

1978-1983	University of California San Diego	B.A.	Biology, <i>Cum Laude</i>
1980-1981	San Diego Community College	E.M.T.	Emergency Medicine
1983-1987	George Washington University	M.D.	Medicine, AOA
1987-1988	Letterman Army Medical Center	Intern	Surgery
1989-1992	Walter Reed Army Medical Center	Resident	Ophthalmology
1992-1993	Walter Reed Army Medical Center	Fellow	Neuro-ophthalmology
1994-1995	Allegheny General Hospital	Fellow	Neuro-Orbit/Plastic Reconstruction.

### LICENSES, CERTIFICATIONS:

1987	Diplomat, National Board of Medical Examiners
1993/re-cert: 2003	American Board of Ophthalmology
2003	California State Medical License No. G86885

### PRINCIPAL POSITIONS HELD:

1993-1994	Faculty, Neuro-Ophthalmology Walter Reed Army Medical Center, Washington DC
1993-1998	Assistant Clinical Professor, Department of Surgery. Uniformed University of the Health Sciences, Bethesda MD
1995 -1998	Director, Surgical Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction. Walter Reed Army Medical Center, Washington DC
1999 - 2004	Director, Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction / Fellowship Director. Allegheny General Hospital, Pittsburgh, Pennsylvania

- 1999 – 2004      Assistant Professor, Department of Surgery. Drexel University College of Medicine, Philadelphia, Pennsylvania
- 2004 – 2005      Associate Professor, Department of Ophthalmology, UCSF  
Co-Director, Ophthalmic Plastics and Orbital Disease  
Consultant, Neuro-ophthalmology
- 2005 – 2006      Director, Ophthalmic Plastics and Orbital Disease Service, UCSF  
Consultant, Neuro-ophthalmology

**OTHER POSITIONS HELD CONCURRENTLY:**

- 1988-1989      Chief, Emergency Services. McDonald Army Hospital, Newport News Virginia
- 1988-1989      Director of BLS and ACLS Programs. McDonald Army Hospital, Newport News, Virginia
- 1993-1994      Consultant, Neuro-Ophthalmology. Fitzsimons Army Medical Center, Denver, Colorado
- 1997-2000      Consultant, Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction. Susquehanna Eye Associates, Lock Haven, Pennsylvania
- 1999-2004      Consultant, Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction. Southwestern Pennsylvania Eye Center, Washington, Pennsylvania
- 2001-2003      Consultant, Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction. Glaucoma- Cataract Consultants, Inc., Mt Lebanon, Pennsylvania
- 2007              Consultant, Neuro-Ophthalmology, Orbital Disease and Plastic Reconstruction. Plager Vision Center, Santa Cruz, California

**HONORS AND AWARDS:**

- 1983              National Service Ribbon, George Washington University (GWU)
- 1987              Alpha Omega Alpha Medical Society, GWU
- 1988              Superior Unit Award, Letterman Army Medical Center
- 1989              Army Commendation Medal, McDonald Army Medical Center
- 1991              National Defense Service Medal,  
Walter Reed Army Medical Center (WRAMC)
- 1992              Best Resident’s Paper, WRAMC Biennial Meeting
- 1993              Best Fellow’s Paper, North American Neuro-ophthalmology Society
- 1993              Superior Unit Award, WRAMC
- 1998              Meritorious Service Medal, WRAMC
- 2000              Who’s Who in Medicine, Who’s Who in American Women
- 2002              Merrill Reeh Pathology Award, American Society of Ophthalmic Plastics and Reconstruction Surgeons (ASOPRS)
- 2003              Elected to International Orbital Society
- 2003              American Academy of Ophthalmology Achievement Award
- 2005              Star Award of Excellence, UCSF
- 2005              America’s Top Doctors for Cancer, Castle Connolly Medical LTD
- 2006              Star Award of Excellence, UCSF
- 2006              AAO Leadership Development Program

2007

Lifetime Achievement Who's Who in Medicine

**AREAS OF INTEREST:**

Thyroid Eye Disease and Compressive Optic Neuropathy

Eyelid and Facial rejuvenation

Facial reanimation and Adult Strabismus for Cranial Nerve Dysfunction

**PROFESSIONAL ORGANIZATIONS**Memberships

- 1992-present Fellow, American Academy of Ophthalmology (AAO)
- 1994-present Fellow, North American Neuro-Ophthalmology Society (NANOS)
- 1999-2004 Member, Pennsylvania Ophthalmology Society
- 1999-2004 Member, Pennsylvania Medical Society
- 1999-present Member, American Medical Association
- 2003-present Fellow, American Society of Ophthalmic Plastic and Reconstructive Surgery (ASOPRS)
- 2003-present Member, International Orbital Society
- 2004-present Member, California Academy of Ophthalmology (CAO)
- 2005-present Founder and Member, Bay Area Neuro-ophthalmology Society
- 2005-present Founder and Member, Surgeons in Neuro-ophthalmology
- 2006- present Member, Women in Ophthalmology
- 2006-present Member, Biomedical Engineering Society
- 2006- present Member, Santa Clara County Medical Society
- 2006- present Member, California Medical Society

Service to Professional Organizations

- 1998-present American Board of Ophthalmology; Oral Board Examiner
- 2000-2004 North American Neuro-ophthalmology Society (NANOS); Fellow
- 2000-2004 NANOS; Member, Scientific committee
- 2001-2003 Pittsburgh Pirates; Team Ophthalmologist
- 2003-2004 Pennsylvania Medical Society (PMS); Alternate Delegate
- 2003-2004 PMS; Member, Commission on Communications and Technology
- 2003-present NANOS; Member, AAO Symposium and Subspecialty Day committee
- 2003-present AAO, Curriculum committee/
- 2003-present AAO, Neuro-ophthalmology/Orbit Knowledge Based Panel to guide the Curriculum development for Board recertification examination
- 2004-present NANOS; Member, CME committee
- 2005-present NANOS; Member, Research committee
- 2005-present California Ophthalmology Society; Member, Legislative Affairs committee
- 2006-present NANOS; Member, Fellowship/Credentials committee
- 2006-present AAO Prop Development for Neuro-ophthalmology/Orbital Disease Subsection of the Oral Board Examination
- 2006-present AAO International Faculty Registry
- 2006-present AAO Leadership Development Program
- 2007 CAO Legislative Affairs, Vice Chairman

- 2007 AAO COMPASS Panel for Oculoplastics/Orbit  
Board Certification Curriculum development
- 2007 CAO LDP representative to Mid-Year Forum, Washington D.C.

### **SERVICE TO PROFESSIONAL PUBLICATIONS**

- 2007 Editorial Board, Neuro-Sciences Section; Ophthalmology Surgery News
- 2003-2004 Associate Editor, *The Bulletin* (Allegheny County Medical Society's monthly journal to members)
- 1995- present Ad hoc reviewer for *Ophthalmology*, *American Journal of Ophthalmology*, *Archives of Ophthalmology*, *Journal of Neuro-ophthalmology and Journal of Ophthalmic Plastic and Reconstructive Surgery*, *Journal of Neurosurgery*, *Archives of Neurology*
- 2007 Editorial Board, Ocular Surgery News

### **INVITED PRESENTATIONS**

#### **INTERNATIONAL**

- 1995 European Academy of Ophthalmology Meeting. Milan, Italy. "Idiopathic Intracranial Hypertension". Optic Nerve Disorders Symposium.
- 1996 Eye Advances 1996, International Congress on Advances in Ophthalmology. Annual All India Ophthalmology Society Meeting. "Thyroid Eye Disease" Chandigarh, India.
- 1996 Neuro-Ophthalmology Session, Annual All India Ophthalmology Society Meeting. Chandigarh, India "Advances in Orbital Surgery and Surgical Neuro-Ophthalmology". And "Idiopathic Intracranial Hypertension".
- 1996 Annual All India Ophthalmology Society Meeting. Chandigarh, India "Sphenoid Wing Meningiomas" (D.B. Chandra Memorial Oration, plenary talk)
- 1998 Annual Advances in Ophthalmic Plastics and Orbital Disease. Hyderabad, India "Controversies in the Management of Compressive Optic Neuropathy". (Sixth Annual Kanchan Memorial Oration, invited talk) and "Thyroid-Associated Orbitopathy" and "The Diagnosis and Management of Lymphoid Proliferations" (invited talks and panelist).
- 1998 EYE ADVANCE 98, Bombay, India. "Gliomas and Meningiomas" and "Advances in the Diagnosis of Idiopathic Intracranial Hypertension" and "Advances in the Management of Thyroid Associated Orbitopathy" (invited talks and panelist)
- 2003 International Orbital Symposium. Vancouver, Canada. "The Role of Radiation in the Management of Sphenoid Wing Meningiomas" (invited talk and panelist).

#### **NATIONAL**

- 1994 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 1994 Course Director and Instructor, Current Concepts in Ocular Trauma. Walter Reed Postgraduate Course and Alumni Meeting. Uniformed University of the Health Sciences. Bethesda, Maryland
- 1994 Course Instructor, Orbital Imaging. American Academy of Ophthalmology. San Francisco, California;
- 1995 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 1995 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine

- 1995 Invited Lecturer “Surgical Approaches to the Orbital Apex”. International Skull Base Meeting, Lanai, Hawaii
- 1995 Invited Lecturer, “Surgical Management of Cranial Nerve Palsies”. North American Society of Neuro-Ophthalmology. Tucson, Arizona
- 1995 Course Instructor, “Orbital Imaging”. American Academy of Ophthalmology. Atlanta, Georgia
- 1996 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 1996 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 1996 Course Instructor, Orbital Imaging. American Academy of Ophthalmology. Chicago, Illinois
- 1997 Course Director and Instructor, Annual Tri-Service Ocular Trauma Course Oculoplastics Section. Uniformed Services University of the Health Sciences, Bethesda, Maryland
- 1997 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 1997 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 1998 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 1998 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 1999 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 1999 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2000 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 2000 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2001 Invited Lecturer, Houston Basic Science Course. Houston, Texas
- 2001 Visiting Professor, “The Diagnosis and Management of Thyroid-Associated Orbitopathy”. UCSD/San Diego Society of Ophthalmology. San Diego, California
- 2001 Visiting Professor, Compressive Optic Neuropathy. UCSD/San Diego Society of Ophthalmology. San Diego, California
- 2001 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 2001 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2001 Course Director and Instructor, “Practical Diagnosis and Management of the Tearing Patient”. American Academy of Ophthalmology New Orleans, LA
- 2001 Invited Lecturer, “Diplopia”. American Academy of Ophthalmology, Neuro-Ophthalmology Subspecialty Day. New Orleans, Louisiana
- 2002 Invited Lecturer, Houston Basic Science Course. Houston, Texas
- 2002 Visiting Professor, “Thyroid Eye Disease” and “Intracranial Hypertension”. Annual Buffalo Ophthalmology Symposium. Buffalo, NY
- 2002 Invited Lecturer. “The Diagnosis and Management of Optic Nerve Meningiomas”. Mid Atlantic Update in Ophthalmology. Washington DC
- 2002 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2002 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 2002 Invited Lecturer, “Traumatic Optic Neuropathy”. Multidisciplinary Approach to Trauma Symposium. San Antonio, Texas
- 2002 Course Director and Instructor, “Practical Diagnosis and Management of the Tearing Patient”. American Academy of Ophthalmology. Orlando, Florida
- 2003 Invited Lecturer, Houston Basic Science Course. Houston, Texas

- 2003 Invited Lecturer, “Compressive Optic Neuropathy”. Ohio Ophthalmology Society Annual Meeting. Dublin, Ohio
- 2003 Visiting Professor, “Thyroid Eye Disease”, “Pseudotumor Cerebri” and “Compressive Optic Neuropathy”. University of Tennessee, Chattanooga, Tennessee
- 2003 Invited Lecturer, Lancaster Basic Science Course. Waterville, Maine
- 2003 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2003 Course Director and Instructor, “Practical Diagnosis and Management of the Tearing Patient”. Annual Meeting of the Academy of Ophthalmology. Anaheim, California
- 2003 Course, Instructor, “Basic Neuro-Ophthalmology”. Annual Meeting of the Academy of Ophthalmology. Anaheim, California.
- 2003 Breakfast with the Experts, “Expert in Diplopia” Annual Meeting of the Academy of Ophthalmology. Anaheim, California
- 2003 Moderator, “Eyelid Abnormalities”. Annual meeting of the American Society of Oculoplastics and Reconstructive Surgeons (ASOPRS). Anaheim, California
- 2003 Moderator, “Golden Rules of Neuro-Ophthalmology”. Annual meeting of the Academy of Ophthalmology (in conjunction with NANOS). Anaheim, California
- 2004 Invited Lecturer, Houston Basic Science Course. Houston, Texas
- 2004 Visiting Professor, “Thyroid Eye Disease” and “Pseudotumor Cerebri”. University of Rochester, Grand Rounds, Rochester, NY
- 2004 Invited Speaker, “Advances in Orbital Surgery”. Annual NANOS meeting. Orlando, Florida
- 2004 Course Director and Moderator, Symposium on Neural Hydrodynamics. Menlo Park, CA;
- 2004 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2004 Course Director and Instructor, “Rheumatology for the Ophthalmologist”. Annual Academy of Ophthalmology Meeting; New Orleans, LA.
- 2004 Course Instructor, “The Endoscopic Brow Lift”. Annual Academy of Ophthalmology Meeting; New Orleans, LA.
- 2005 Invited Lecturer, Houston Basic Science Course. Houston, Texas
- 2005 Invited Lecturer, “Orbital Manifestations of a New Virulent Staphylococcus Aureus Clone”, Annual Orbital Society Meeting, San Destin, Florida.
- 2005 Invited Lecturer, Kevin Hill Course, Waterville, Maine.
- 2005 Invited Lecturer, Lancaster Basic Science Course, Lancaster, Maine.
- 2005 Invited Lecturer, Stanford Basic Science Course. Palo Alto, CA.
- 2005 Course Director and Instructor, “Practical Diagnosis and Management of the Tearing Patient” Annual Meeting of the American Academy of Ophthalmology. Chicago, IL.
- 2005 Course Instructor, “Rheumatology for the Ophthalmologist”. Annual Meeting of the American Academy of Ophthalmology Meeting; Chicago, IL.
- 2005 Course Instructor, “The Endoscopic Brow Lift”. Annual Meeting of the American Academy of Ophthalmology Meeting; Chicago, IL.
- 2005 Breakfast with Experts; “Expert in Diplopia”. Annual Meeting of the American Academy of Ophthalmology Meeting; Chicago, IL.
- 2005 Invited Lecturer, Neuro-Ophthalmology Subspecialty Day. “  
“The Other Causes of Diplopia: Thyroid Eye Disease, Myositis and Myasthenia Gravis”  
Annual Meeting of the American Academy of Ophthalmology Meeting; Chicago IL.

- 2005 Invited Lecturer, NANOS AAO Symposium “Post-Traumatic Diplopia”. Annual Meeting of the American Academy of Ophthalmology Meeting; Chicago, IL.
- 2006 Invited Lecturer, Houston Basic Science Course. Houston, Texas
- 2006-present  
Co-Director and lecturer, Bay Area Ophthalmology Course at Stanford Palo Alto, California
- 2006 Invited Panelist. “Consensus Statement for Graves’ Disease. New Insights for TAO: Bench to Bedside. Los Angeles, California
- 2006 Endoscopic Forehead and Eyebrow Elevation; skills transfer course. Annual meeting of the Academy of Ophthalmology. Las Vegas, California
- 2006 A Systematic Approach to Tearing. Annual meeting of the Academy of Ophthalmology. Las Vegas, California.
- 2007 Moderator, Annual Walsh Meeting; Snowbird, Utah.
- 2007 Invited Lecturer and Panelist; “Clinical controversies in Thyroid Eye Disease. Annual meeting of NANOS; Snowbird, Utah.
- 2007 Invited Lecturer to CAO Sponsored, Ophthalmology Symposium. “Update: Neuro-ophthalmology and Orbit” San Francisco, CA
- 2007 Invited Lecturer, “Emerging Technology in the Diagnosis and Management of TAO” in Thyroid Associated Orbitopathy: New Directions for Unifying Basic Science and Clinical Disease Symposium. Annual ARVO meeting; Ft Lauderdale, Florida.

**REGIONAL**

- 2001 Invited Lecturer, “Orbital Disease Update: Thyroid Eye Disease”. Glaucoma, Cataract Consultants, Inc. Spring Symposium. Pittsburgh, Pennsylvania
- 2001 Invited Lecturer, “Neuro-Ophthalmology Update: Non-Glaucomatous Optic Neuropathy”. Glaucoma, Cataract Consultants, Inc. Spring Symposium. Pittsburgh, Pennsylvania
- 2001 Invited Lecturer, “Thyroid Eye Disease”. Pittsburgh Ophthalmology Society Meeting. Pittsburgh, Pennsylvania
- 2002 Invited Lecturer, “Approach to Post-Traumatic Eyelid Malposition”. Interdisciplinary Problem Solving in Cranio-Maxillofacial Surgery Cranio-Orbital Trauma. Pittsburgh, PA
- 2002 Invited Lecturer, “Thyroid Eye Disease”. Allegheny County Medical Society. Pittsburgh, Pennsylvania
- 2002 Invited Lecturer, “Neurologic Causes of Optic Nerve Head Cupping”. Glaucoma/Cataract Consultants Fall Symposium.
- 2002 Invited Course Instructor, “A Practical Approach to Tearing patient”. Pittsburgh Ophthalmology Society Annual Meeting
- 2002 Course Director and Moderator, Symposium on Neural Hydrodynamics. Pittsburgh, PA
- 2002 Invited Lecturer, “Tearing for the General Eye Practitioner”. Southwestern Eye Center Fall Meeting. Washington, PA
- 2003 Invited Speaker, Allegheny General Medicine Grand Rounds. “Thyroid Eye Disease”.
- 2003 Course/Lab Director, Instructor and Moderator. Advances in Thyroid Eye Disease Rejuvenation Symposium. Pittsburgh, PA
- 2004 Course Director and Moderator, Symposium on Neural Hydrodynamics. Menlo Park, CA

- 2004 Invited Speaker, Pacing the Face with Chip Technology. Eye Openers Speaker’s Series.
- 2004 Invited Speaker, Visual Fields, UCSF Department of Neurosurgery Neural Science Lecture Series. San Francisco, CA.
- 2004 Invited Speaker and Panelist, “Advances in Ophthalmic Surgery with Neuro-ophthalmic Impact” Annual meeting of the North American Neuro-Ophthalmology Society. Orlando, Florida.
- 2004 Invited Speaker and Panelist, “Thyroid Eye Disease” and “Increased Intracranial Pressure”. UCSF December Course. San Francisco, CA
- 2005 Visiting Professor, “Secondary Increased Intraocular Pressure: When Glaucoma is more than just Glaucoma”. ALTA Sacramento Ophthalmology Society. Sacramento, CA.
- 2005 Visiting Professor, “Thyroid Eye Disease; the NORDIC TED Project”. Endocrinology Grand Rounds, University of California San Francisco. San Francisco, CA.
- 2005 Invited Speaker, “Pacing the Face with Chip Technology”. Mellon Luncheon Series
- 2005 Visiting Professor, “Clinical Pearls for Effective Multi-Disciplinary Management of Thyroid Eye Disease”, UCSF ENT Grand Rounds, San Francisco, California.
- 2005 Visiting Professor, “Traumatic Optic Neuropathy”, CPMC Grand Rounds, San Francisco, California.
- 2005 Visiting Professor, “Thyroid Eye Disease”. Kaiser Permanente Grand Rounds, Oakland, California.
- 2005 Invited Speaker and Panelist, “When Glaucoma is not Glaucoma” and “Practical approach to Diplopia”. Annual UCSF December Course. San Francisco, California
- 2006 Invited Speaker. “Translating MEMS technology” Annual Cordes Society Meeting, San Francisco, California.
- 2006 Invited Speaker. “Eyelid Oncology Update” Annual UCSF December Course. San Francisco, California.

**GOVERNMENT SERVICE**

1983-1998 U.S. Army Medical Corps, Active Duty Officer and Physician; Honorable Discharge with 4 medals during service (see honors section)

**UNIVERSITY SERVICE**

2005	Department of Ophthalmology	VA search committee member
2005	Department of Ophthalmology	Retina search committee director
2005	Department of Ophthalmology	Clinical practice committee member
2005	Department of Ophthalmology	Endowed Chair search committee
2006	Department of Otolaryngology	Sinus search committee member
2006	Department of Ophthalmology	Plastics search committee member
2006	Department of Ophthalmology	Endowed Chair search committee
2006	Department of Ophthalmology	Co-Director, Bay Area Ophthalmology Course
2006	Department of Ophthalmology	Ophthalmology Day at QB3 committee member
2007	Stem Cell Research Grants	Committee Member for Alzheimer Award Section

**PUBLIC SERVICE**

1997	Chandigarh, India	Humanitarian visit
1998	Hyderabad, India	Humanitarian visit
1998	Bombay, India	Humanitarian visit
2002 -2004	West Penn Allegheny Health System Systems and Technology Committee	Member
2003- 2004	Pittsburgh Vision Services (Pittsburgh Blind Association/The Greater Pittsburgh Guild for the Blind)	Board of Directors
2002/2003	Pittsburgh Health Fair Visual Screening	Director

**RESEARCH AWARDS AND GRANTS****CURRENT**

DOD Translational Research Grant PR064623	\$1,214,708
A Hybrid, Electrochemical Microstimulator Implant for Denervated Muscles	
Role: PI	

VA Merit Grant	
The Effects of Blast Injury on Visual Function	\$ Award amount determined
Role: Co-investigator	

**PENDING**

R34 NIH/NEI (part of U10 Consortium)	\$300,000
Subjective and Objective Measure Design to determine Thyroid Eye Disease Activity	
Role: PI	

**R-01 NIH/NINDS**

	\$25,000
The Role of Low dose Corticosteroids in the generalization of Ocular Myasthenia Gravis	
Role: Site Investigator	

**PAST**

<u>UCSF Academic Senate Grant</u>	06/06-06/07
Quality of Life Assessment Tool for Thyroid Eye Disease	\$35,000
Role: PI	

<u>That Man May See Award</u>	06/04-06/06
Reanimation of Denervated Orbicularis using MEMS Technology.	\$70,000
Role: PI	

<u>Departmental Funding from Ophthalmology.</u>	07/05 – 07/06
The efficacy of ancillary optic nerve testing in patients with optic neuritis, multiple sclerosis and associated conditions	\$60,000
Role: PI	

<u>Stanford Nanofabrication Lab Grant</u>	09/05 – 09/06
Reanimation of Denervated Orbicularis using MEMS Technology	\$5000
Role: PI	

<u>Sandler Family Foundation Award</u>	09/05 – 09/06
Prospective assessment of the efficacy of nanotechnology to promote axonal regeneration in freshly enucleated optic nerves.	\$500,000
Role: co-investigator	
<u>That Man May See Award</u>	01/06 – 09/06
Design and Implementation of Microknife using nanotechnology	\$250,000
Role: co-investigator	
<u>That Man May See Award</u>	05/06
Testing of Implantable Microstimulator (Prototype III)	\$5000
Role: PI	
<u>That Man May See Award</u>	06/06- 09/06
Design and Testing of Implantable Microstimulator (Prototype IV)	\$20,000
Role: PI	
<u>Allergan sponsored trial</u>	01/05-01/06
A multi-center, open label study of the efficacy of Restasis in patients with Thyroid Eye Disease.	\$36,000
Role: PI	
<u>R03 EY014564-01</u>	04/03-04/04
NIH / NEI.	
A Novel in Vitro Model of Thyroid Ophthalmology	
Role: Site Investigator	
<u>Allergan sponsored trial</u>	11/02-11/03
Multicenter, open-label study of the efficacy of Brimonidine-purite 0.15% ophthalmic solution in patients with Leber's hereditary optic neuropathy	
Role: Site investigator	
<u>Allergan sponsored trial</u>	01/01-01/02
A one-year multi-center, open label study of the safety and efficacy of brimonidine-purite 0.15% ophthalmic solution in patients with acute ischemic optic neuropathy.	
Role: Site investigator	
<u>Department of Clinical Investigation, US Army</u>	01/90-01/92
The efficacy of cyanoacrylate closure for scleral lacerations; a rabbit model	

Role: PI

## PEER REVIEWED PUBLICATIONS

*Please note that KA Peele was used until 1997, from that date forward I have used my married name (KP Cockerham).*

## SCIENTIFIC PAPERS

1. Puckett TR, Peele KA, Howard, RS, Kramer KK. Intraocular irrigating solutions: a clinical trial of BSS Plus and dextrose bicarbonate lactated ringer's solution. *Ophthalmology*. 1995; 102(2): 291-6.
2. Peele KA, Kennerdell JS. The role of post-operative radiation in the surgical management of sphenoid wing meningiomas. Presented at the Annual Academy of Ophthalmology, Atlanta, Georgia Nov 1995. *Ophthalmology*. 1996; 103(11): 1761-7.
3. Barsouk A, Peele KA, Kiljanski J, Stolarski C, Nebes V, Kennerdell JS, Wall JR. Antibody-dependent cell-mediated cytotoxicity against orbital target cells in thyroid-associated ophthalmopathy and related disorders; close relations between serum cytotoxicity antibodies and parameters of eye muscle dysfunction. *J Endocrinol Invest* 1996; 19 (6): 334-41.
4. Wall JR, Barsouk A, Stolarski C, Kiljanski J, Stachura I, Nebes V, Peele K, Kennerdell J. Serum muscle antibodies predicted the development of ophthalmopathy in a euthyroid subject with a family history of autoimmunity. *Thyroid* 1996; 6(4): 353-8.
5. Barsouk A, Fraiture B, Peele K, Dalal M, Nebes V, Stolarski C, Kennerdell JS, Jani B, Wall JR. Levels of manganese superoxide dismutase activity are increased in tears from patients with thyroid-associated ophthalmopathy. *Orbit* 1996; 15(3): 205-11.
6. Kiljanski JI, Peele K, Stachura I, Pickeral J, Stolarski C, Kennerdell JS, Wall JR. Antibodies against striated muscle, connective tissue and nuclear antigens in patients with thyroid-associated ophthalmopathy: Should Graves' be considered a collagen vascular disorder? *J Endocrinol Invest* 1997; 20 (10): 585-91.
7. Cockerham KP, Pal C, Jani BR, Wolter A, Kennerdell JS. The prevalence and implications of ocular hypertension and glaucoma in thyroid-associated orbitopathy. *Ophthalmology* 104 (6), June 1997. Reviewed in the *Yearbook of Ophthalmology*. Mosby, Inc. 142-3.
8. Varga MR, Rubinfeld RS, Wolf TC, Stutzman RD, Peele KA, Clifford WS, Madigan WP. Topical anesthetic abuse ring keratitis: report of four cases. *Cornea* 1997; 16 (4): 424-9.
9. Goya R, Cockerham KP. The dural tail sign. *Ophthal Plast Reconstr Surg* 1998; 4(2): 126-9.
10. Cockerham KP, Kennerdell JS, Fechter, H. Liposarcoma of the orbit: a management challenge. *Ophthal Plast Reconstr Surg* 1998; 4(5): 370-4.
11. Bolger W, Crawford J, Cockerham KP. An unusual cause of dacryocystorhinostomy failure. *Ophthalmology* 1999; 106(7): 1306-9.
12. Cockerham KP, Cockerham GC, Stutzman R, Hidayat AA, Depper MH, Turbin RE, Kennerdell JS. The clinical spectrum of schwannomas presenting with visual dysfunction; a clinicopathologic study of three cases. *Surv Ophthalmol* 1999; 44(3): 226-34.
13. Cockerham KP, Hidayat AA, Cockerham GC, Depper MH, Sorensen S, Cytryn AS, Gavaris PT. Melkersson-Rosenthal Syndrome. New clinicopathologic findings in four cases. *Arch Ophthalmol* 2000; 118:227-32.

14. Thach AB, Ward TP, Hollifield RD, Cockerham KP, Birdsong R, Kramer KK. Eye injuries in a terrorist bombing. *Ophthalmology*, 2000; 107(5): 844-7.
15. Turbin RE, Thompson CS, Kennerdell JS, Cockerham KP, Kupersmith MJ. A long-term visual outcome comparison in patients with optic nerve sheath meningioma managed with observation, surgery, radiotherapy, or surgery and radiotherapy. *Ophthalmology* 2002, 109(5): 890-99.
16. Cockerham KP, Hidayat AA, Brown HG, Cockerham GC, Graner SC. Clinicopathologic evaluation of Mueller's muscle in thyroid-associated orbitopathy. *J Ophthal Plast Reconstr Surg*. 2002; 18:11-17.
17. Cockerham KP, Kennerdell JS. The role of radiotherapy in the management of dysthyroid orbitopathy. *Br J Ophthalmol* 2002; 86:104-6.
18. Bejjani GK, Cockerham KP, Kennerdell JS, Moroon JC. Visual Field deficit from vascular compression in a suprasellar meningioma: a case report. *Neurosurgery*. 2002; 50(5): 1129-32.
19. Cockerham KP, Cockerham GC, Brown HG, Hidayat AA. Hemangioblastoma arising in an extraocular muscle. *J Ophthalmic Plastic and Reconstructive Surgery*. 2003; 19(3): 248-250.
20. Cockerham KP, Cockerham GC, Hidayat AA, Brown H. Radiosensitive orbital inflammation associated with temporal arteritis. *J Neuro-Ophthalmology* 2003; 23(2): 117-21.
21. Rutar T, Zwick O, Cockerham KP, Horton JC. Bilateral blindness from orbital cellulitis caused by community acquired methicillin-resistant staphylococcus aureus. *Am J Ophthalmol*. 2005; 140(4): 740-2.
22. Zwick OM, Vagefi MR, Cockerham KP, McDermott MW. Brown tumor of secondary hyperparathyroidism involving the superior orbit and frontal calvarium. *J Ophthalmic Plastic and Reconstructive Surgery*. July 2006.
23. Rutar T, Cockerham KP. Periorbital Zygomycosis (Mucormycosis) treated with Posaconazole, *AJO*. July 2006.
24. Rutar T, Chambers HF, Crawford JB, Perdreau-Remington F, Zwick OM, Karr M, Diehn JJ, Cockerham. KP. Ophthalmic Manifestations of Methicillin-resistant staphylococcus aureus. *Ophthalmology*, August 2006.
25. Cockerham KP. Lone Star Retractor System for Orbital Surgery. *J Ophthalmic Plastics and Reconstructive Surgery*. in press.
26. Cockerham KP. Medical Management of Thyroid Eye Disease; What do We Know ?. *J Neuro-ophthalmology*. 2007, in press.
27. Cockerham, KP. Unusual presentations of Pleomorphic Adenoma. *AJO*, 2007 in press.
28. Cockerham KP. Electrical Stimulation of Human Subjects with Facial Denervation. Submitted to *J Ophthalmic and Reconstructive Surgery*.

### **Invited Reviews and Teaching Aids**

1. Peele KA, Rosenberg ML. The role of peripheral visual fields in pseudotumor cerebri. *Neurology Reviews*. July 1993.
2. Peele KA, Kennerdell JS, Goodglick T. Orbital infections. *Current Concepts in Ophthalmology* (Supplement to the Pennsylvania Journal of Medicine). 1995; 3: 79-84.
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Kennerdell JS, Cockerham KP, Maroon JC, Rothfus WE. *Practical Diagnosis and Management of Orbital Disease*. Boston: Butterworth & Heinemann, 2001.

## PUBLISHED SCIENTIFIC ABSTRACTS

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## PRESENTATIONS & POSTERS

1. "Pediatric pseudotumor cerebri" Walter Reed Army Medical Center Biennial Meeting, Bethesda, Maryland, March 1992.(Presentation) **Recipient of Best Resident Paper Award.**
2. "The role of peripheral visual fields in the management of idiopathic intracranial hypertension". Annual Meeting of the North American Neuro-Ophthalmology Society, Big Sky, Montana, March 1993. (Presentation) **Recipient of Best Fellow Paper Award.**
3. "Surgical management of supranuclear palsies." Annual meeting of the North American Neuro-Ophthalmology Society, Big Sky, Montana, March 1993.(Poster)
4. "Anatomical correlation with peripheral visual fields." Annual Meeting of the North American Neuro-Ophthalmology Society, Durango, Colorado, March 1994. (Poster)

5. “Stimulation of tear production in Sjogren’s syndrome patients using dilute topical pilocarpine. Annual Meeting of the American College of Rheumatology, 1994. (Poster)
6. “An interesting triad due to rheumatoid vasculitis.” Annual meeting of the North American Neuro-Ophthalmology Society. Tucson, Arizona, March 1994. (Poster)
7. “Aspergillosis mimicking an ischemic third nerve palsy.” Annual meeting of the North American Neuro-Ophthalmology Society. Durango, Colorado, March 1994.(Poster)
8. “An unusual case of recurrent proptosis.” Annual Walsh Society Meeting, Washington, DC, April 1995.(Presentation)
9. “Complications of radiation therapy in thyroid-associated orbitopathy”. Current Concepts in Thyroid Disease. Pittsburgh, Pennsylvania, September 1995. (Poster)
11. “Antibodies against striated muscle, connective tissue and nuclear antigens in patients with thyroid-associated ophthalmopathy: is Graves’ disease a collagen disorder?” International Thyroid Congress. Toronto, Canada, September 1995. (Poster)
12. “Increased superoxide dismutase activity in lacrimal secretion (tears) from patients with thyroid-associated ophthalmopathy.” International Thyroid Congress. Toronto, Canada, September 1995. (Poster)
13. “An unusual presentation of Desert Storm Syndrome?” Annual Walsh Society Meeting, Baltimore, Maryland, April 1997. (Presentation)
14. A case of visual loss in pregnancy” Annual Walsh Society Meeting. Baltimore, Maryland, April 1997. (Presentation)
15. “The role of SITA fast in a neuro-ophthalmology evaluation” Annual meeting of the American Academy of Ophthalmology, New Orleans, Louisiana. November 1998. (Poster)
16. “The clinical spectrum of MALT-type lymphoma” Annual meeting of the International Congress of Ocular Oncology, Philadelphia, Pennsylvania, May 1999. (Presentation)
17. “The clinical spectrum of Schwannomas presenting with visual dysfunction.” Annual meeting of the North American Neuro-Ophthalmology Society. Snowmass, Colorado, March 1999. (Presentation)
18. “The efficacy, reliability and reproducibility of SITA in a neuro-ophthalmology patients.” Annual meeting of the North American Neuro-Ophthalmology Society. Snowmass, Colorado, March 1999. (Poster)
19. “The role of the Heidelberg Retinal Tomography in non-glaucomatous optic neuropathies.” Annual meeting of the North American Neuro-Ophthalmology Society. Palm Springs, California, February 2001. (Poster)
- 20.”Clinicopathology of Mueller’s Muscle in Thyroid Associated Orbitopathy.” Annual meeting of the American Society of Ophthalmic Plastic and Reconstructive Surgery. New Orleans, Louisiana, November 2001. **Recipient of the Merrill Reeh Pathology Award.** (Presentation)
21. “Neuro-Ophthalmic Findings in Symptomatic Adult Chiari Malformation.” Annual meeting of the North American Neuro-Ophthalmology Society. Copper Mountain, Colorado, February 2002. (Presentation)
22. “Temporal arteritis presenting as an orbital mass.” Orbital Society Meeting. Vancouver, B.B. April 2002. (Poster)
23. “Retinal Topography in Unilateral Optic Neuropathy”. Annual meeting of the American Academy of Ophthalmology. Orlando, Florida; October 2002, Annual meeting of the North American Neuro-Ophthalmology Society. Snowbird, Utah. February 2003. (Poster)

24. “Failed Adult Chiari Malformation Decompression: Is there a role for altered neural hydrodynamics?” Annual meeting of the North American Neuro-Ophthalmology Society, Snowbird, Utah. February 2003. (Poster)
25. “Association of the Adult Chiari Malformation and Pseudotumor Cerebri: A report on Three Cases” Annual meeting of the North American Neuro-Ophthalmology Society, Snowbird, Utah. February 2003. (Poster)
26. “The role of radiation in the management of primary sphenoid wing meningiomas” Annual meeting of the North American Neuro-ophthalmology Society, Snowbird, Utah. February 2003. (Presentation)
27. “Orbital Basal Cell Carcinoma without Cutaneous Involvement”. Annual meeting of the American Society Oculoplastic Reconstruction and Surgery. Anaheim, California. November 2003. (Poster)
28. “The role of radiation in the management of sphenoid wing meningiomas” Annual meeting of the American Society of Oculoplastic Reconstruction and Surgery. Anaheim, California. November 2003. (Presentation)
29. “Fat Distribution in Idiopathic Intracranial Hypertension”. Annual meeting of the North American Neuro-Ophthalmology Society. Orlando, Florida. March 2004. (Poster)
30. “The Role of Fluorescein Angiography in Disorders of Intracranial Pressure” Annual meeting of the North American Neuro-ophthalmology Society. Orlando, Florida. March 2004. (Poster)
31. “NORDIC- Clinical Study Pilot Planning Project: Thyroid Eye Disease” Annual meeting of North American Academy of Ophthalmology. Copper Mountain, Colorado. February 2005. (Presentation)
32. “Ophthalmic Manifestations of Infections Caused by the USA300 clone of Community-Associated Methicillin-Resistant Staphylococcus Aureus” Annual meeting of the American Academy of Ophthalmology. Chicago, IL. November 2005. (Poster)
33. “Reanimation of Denervated Orbicularis Oculi using MEMS technology” Annual meeting of the North American Neuro-Ophthalmology Society. Tucson, Arizona. February 2006 (Presentation)
34. “Electric Stimulation Parameters in Patients with Acute and Chronic Facial Nerve Palsies” Annual meeting of the North American Neuro-Ophthalmology Society. Tucson, Arizona. February 2006 (Poster)
35. “The Use of Lone Star Elastic Stay Hooks in Orbital Surgery” Annual meeting of the North American Neuro-Ophthalmology Society. Tucson, Arizona. February 2006. (Poster)
36. “Bilateral Dilated Pupils Unresponsive to Light and with Intact Convergence and Accommodation but No Pupillary Miosis” Annual meeting of the North American Neuro-Ophthalmology Society. Tucson, Arizona. February 2006. (Poster)
37. “Creation of a Functional Blink in Rabbits with Denervated Orbicularis Oculi with an Implanted Stimulation Chip Based on MEMS Technology” Annual meeting of the Association for Research in Vision and Ophthalmology. Ft Lauderdale, Florida. May 2006 (Poster)
38. “Comparison of Electric Stimulation of Patients with Acute and Chronic Facial Nerve Palsy at Multiple Locations of the Orbicularis”. Annual meeting of the Association for Research in Vision and Ophthalmology. Ft Lauderdale, Florida. May 2006 (Poster)
39. “A Hybrid Electrochemical Microstimulator”. Annual meeting of the Biomedical Engineering Association. Chicago, Illinois. October 2006 (poster)

40. “Development and Testing of a Thyroid (TED) Quality of Life Instrument”. Annual ASOPRS meeting, Las Vegas, November 2006 (presentation).
41. “Microdebrider-Assisted Exenteration: a new tool for Orbital Surgery:.. Annual ASOPRS meeting, Las Vegas, November 2006 (poster).
42. “Creation of a functional blink in denervated orbicularis oculi with electrochemical stimulation in New Zealand white rabbits”. Annual ASOPRS meeting, Las Vegas, November 2006 (poster).
43. “NORDIC TED update; our initial modifications and testing of clinical scoring and TEDQOL”
44. Is MEMS technology the answer to Thyroid Eye Disease Diagnosis and Management ?” Graves’ Disease International Symposium: New Insights for TAO: From Bench to Bedside, Los Angeles, November 2006.
45. Group Leader of Clinical Assessment Consensus Group, Panelist. Graves’ Disease International Symposium: New Insights for TAO: From Bench to Bedside, Los Angeles, November 2006.
46. The Effect of Chronic Denervation o the Electrical, Chemical and Electrochemical Stimulation Efficacy in a Denervated Eyelid Rabbit Model. Annual NANOS meeting, Snowbird, Utah. February 2007 (poster).
47. Thyroid Eye Disease (TED) Quality of Life (QOL) Instrument. Annual NANOS meeting, Snowbird, Utah. February 2007 (poster).
48. Efficacy of Restasis® Ophthalmic Emulsion in Patients with Thyroid Eye Disease. Annual NANOS meeting, Snowbird, Utah. February 2007 (poster).
49. The Role of Hybrid Electrochemical in the Stimulation of Acute and Chronically Denervated Eyelid Rabbit Model. Annual *Unite for Sight* meeting, Stanford University April 2007 (poster).

#### **CLINICAL SCIENCE RESEARCH PROGRAM**

The TED Study Steering Committee (TED SSC) was formed, under the auspices of NORDIC, during the annual meeting of NANOS in March of 2004. I was selected to be the NORDIC-TED Study Director. In the last two years, I have been provided access to an extensive network of highly skilled and experienced researchers and ancillary personnel to guide work on this project. In addition, I received mentoring from NORDIC group to solidify the skills required to be the TED Study Director. In visits to the DCBC and Immunology Research Center, I have been mentored on study design, biostatistics and immunology facilitating my development of two novel TED assessment tools. In our work to date, we have:

1. Submitted a NIH grant application to NEI 1 June 2005 (KPC PI for R21 portion with total budget of \$300,000/2 years and total U10 budget of 25 million (Mark Kupersmith PI))
2. Conducted a pilot study that is a prospective evaluation of a new TED clinical activity score, clinical severity score and TED QOL (58 subjects have been enrolled at UCSF to date; 20 subjects at University of Rochester). Institutional review board approval is being sought at Stanford.

#### **BASIC SCIENCE RESEARCH PROGRAM**

The Synchrony Research Group, a multi-disciplinary research group that includes clinicians and engineers, was formed in July 2005. We are dedicated to the translation of existing nanotechnology capabilities to modulate muscle activity.

Synchrony Research Group – The Clinical Arm:

This collaboration, which includes neurology, neurosurgery, otolaryngology, plans to pursue investigation of facial reanimation in an animal model (seventh nerve palsy). Future facial applications include suppressing facial spasms and restoring eye muscle movement in patients with double vision. Other future lines of investigation include: paralyzed vocal cords, the tongue/soft palate in sleep apnea and applications in Neurodegenerative disorders such as ALS.

Synchrony Research Group – The Science Arm:

Our engineering team is terrific and diversified. Wentai Liu, PhD, professor of Electrical Engineering at UC Santa Cruz and his team are working on the intricate electrical computer powering, implants and mathematical modeling for the system. The chairman of Bioengineering at UC Berkeley, Dorian Liepmann, and Juan Santiago, an innovative associate professor in Bioengineering at Stanford, are teaming to develop and refine the microfluidic components.

In our work to date, we have:

1. Studied the stability of FDA approved acetylcholine (Miostat and Miochol) at body temperature in sterile glass and within the silicon products that will likely compose the eventual chip.
2. Tested electrical stimulation parameters and EMG characteristics in normal subjects and those with acute and chronic seventh denervation.
3. Designed and fabricated multiple electrical stimulation arrays.
4. Designed and fabricated multiple chemical stimulation prototypes.
5. Studied the arrays and prototypes in the denervated orbicularis of our rabbit model.
6. Drafted and submitted grant application to NIH, DOD and a variety of other funding sources.
7. Selected to Stanford's BIO X Emerging Entrepreneurs Workshop in 2005 and 2006.
8. Selected into the Women's Technology Cluster Jump Start program.
9. Selected for the Center for Bioentrepreneurship (CBE) mentorship program.
10. Selected by the CBE "Idea to IPO" course at QB3 incubator project mentor.
11. Presented data at multiple regional, national and international meetings during 2006 and 2007. .
12. Designed, fabricated and began testing on an electrochemical hybrid prototype.