



VISIONS

Koret Vision Institute + Beckman Vision Center + Department of Ophthalmology + Francis I. Proctor Foundation **Fall Annual Report 2010** University of California, San Francisco + That Man May See

Focal Point



Dear Friends,

This Fall newsletter highlights the excellence of our basic and translational research teams that has earned UCSF's ophthalmology researchers top-five standing in federal funding from the National Institutes of Health. These investigators, their trainees and our research support staff are dedicated to better understanding vision and eye disease, so that earlier and more accurate diagnostics and more effective treatments will be possible for patients around the world.

We extend a warm welcome to our newest faculty member Dr. Yvonne Ou. A clinician scientist who comes to UCSF via Harvard, UCLA's Jules Stein Eye Institute, and the Duke Eye Center, Dr. Ou will collaborate with basic scientists Erik Ullian, PhD, and Doug Gould, PhD. Their focus is on novel approaches to better understand the molecular basis of neuronal damage in glaucoma and to provide customized therapy to improve outcomes for all who suffer from glaucoma.

We also welcome five new outstanding ophthalmology residents who come from the East Coast, the Midwest, and California, embarking on specialty training with us for the next three years.

Thank you for supporting the process of discovery and for your partnership in research, teaching, and patient care that transforms lives.

Sincerely,

Stephen D. McLeod, MD
Theresa M. and Wayne M. Caygill, MD, Endowed Chair
Professor and Chairman



Ophthalmology Insight

Leaders in Vision Research and Care

UCSF Ophthalmology ranks among the top five eye institutions nationally in receipt of grants for sight-saving research, according to a recent survey that examines National Institutes for Health (NIH) funding. And *U.S. News and World Report* again names UCSF Ophthalmology among the top ten in the nation for patient care. The magazine's rankings address quality and expertise of clinical care and identify the excellence that UCSF Ophthalmology's staff, physicians, and trainees provide.

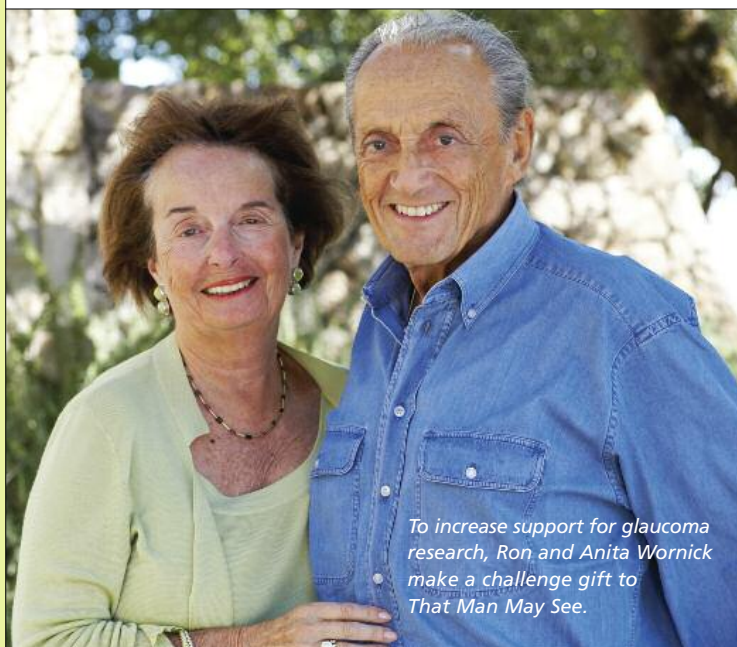
Says Department of Ophthalmology Chair **Stephen McLeod, MD**, "We have truly outstanding research, clinical, and administrative teams here, and I am delighted to see this recognized yet again – not only by our colleagues at UCSF, but nationwide."

The Department of Ophthalmology and the Francis I. Proctor Foundation for Research in Ophthalmology are dedicated to understanding the causes and mechanisms of eye diseases, with the goals of slowing, halting, and preventing deterioration of sight. Scientific research, patient care, and teaching are intertwined. Research that increases basic knowledge provides the foundation for advances in patient care. The faculty shares leading-edge knowledge with doctoral and postdoctoral researchers, as well as with residents and fellows who will provide treatment to the next generation of patients.

Talented Teams Attract Funds

More than 70 percent of NIH applications are denied support, yet 18 UCSF clinical and laboratory scientists were awarded \$7.6 million in

Continued on page 3



To increase support for glaucoma research, Ron and Anita Wornick make a challenge gift to That Man May See.

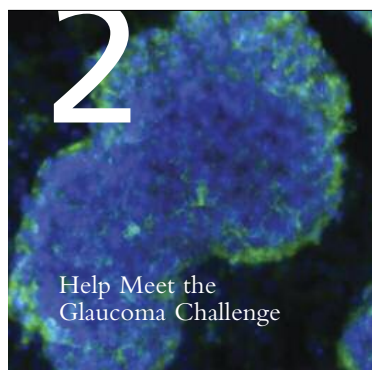
Envision the Future New World for Glaucoma Research

"Private dollars allow UCSF to initiate new research – to make inroads that can transform traditional approaches to disease," says Ron Wornick. He and his wife Anita are making a challenge gift of \$250,000 to jumpstart an innovative glaucoma effort. "All it takes is a couple of people to step up," he explains,

"and we can leverage more resources to change research paradigms." The Wornick gift is fueling the work of a new scientific team racing toward innovative glaucoma treatments. Leading the team are clinical scientist **Yvonne Ou, MD**, a glaucoma specialist recently

Continued on page 2

A PEEK INSIDE:



Help Meet the
Glaucoma Challenge



Recent Gifts Fund Research,
Patient Care, and Teaching



TMMS Annual Report:
Dan Benatar Reports
to Readers



Cordes Society to
Meet in Chicago
in March



New Solution for Dry Eyes:
A Patient's Perspective

“The new technology greatly increases the likelihood that optic nerve cell transplantation eventually will become a reality.”
– Dr. Yvonne Ou

appointed to the Department of Ophthalmology, and noted neurobiologist **Erik Ullian, PhD**.

Their highly promising research strategy is made possible by a major breakthrough at UCSF. Investigators recently found a way to coax adult human stem cells to transform into stem cells for the first time. Previously, only fetal tissue held the medical potential of generating highly adaptable stem cells. The breakthrough opens a window for stem cell-based strategies that stop glaucoma’s progressive destruction of the retina and optic nerve.

Reckoning with Glaucoma

Worldwide, about 60 million people have glaucoma, and open-angle glaucoma continues to be the leading cause of irreversible blindness. Gradual progression of peripheral vision loss allows the disease to go undetected until it is in fairly advanced stages. Its biological cause is deterioration and death of optic nerve cells. Although eye pressure is a risk factor, people with normal eye pressure can also develop glaucoma. Drs. Ullian and Ou are seeking ways to preserve the health of the retina and optic nerve regardless of eye pressure.

Cell-based Technology Holds Key

The team of scientists is transforming adult human tissue first into stem cells and then into specific types of ocular cells. Exploration of these cultivated human cells offers a radical departure from research on the diseased eyes of mice. This first-ever human glaucoma disease model holds great promise for new treatments that prevent or reduce vision loss – and even for optic nerve cell transplantations that may one day help restore sight.

“Our investigative team is in a unique position to successfully create an invaluable human glaucoma model,” says Department Chair **Stephen McLeod, MD**. Dr. Ullian’s team had already identified sequence-specific DNA-binding factors for optic nerve cells, including types thought vulnerable to glaucoma. This information will allow them to generate optic nerve cells from the tissue of glaucoma patients and patients with healthy retinas.



Dr. Yvonne Ou and Dr. Erik Ullian – A Winning Team

Newly appointed UCSF faculty member **Yvonne Ou, MD**, is a determined long-distance runner. This mindset will serve her well as she pursues new glaucoma solutions. Dr. Ou joins a highly regarded vision science team racing to reduce vision loss and sight disability. A self-professed “science nerd,” she pursued medical school after early laboratory investigations motivated her to understand disease in the context of patients’ lives. “For me, it was a missing piece,” she says. “Bridging the worlds of treatment and research feels right.”

Her role in patient care keeps Dr. Ou grounded in the reality of sight loss. “I witness my patients’ frustration at every clinic, and that motivates me,” she says. Observing people with glaucoma also generates research ideas. “There is so much left to accomplish in the glaucoma arena,” continues Dr. Ou, “that I feel I can make a contribution.”

Raised in Boston, Dr. Ou has crisscrossed the country to receive the best training. She earned her medical degree at Harvard University in the prestigious Harvard/Massachusetts Institute of Technology Division of Health Sciences and Technology, a rigorous program known for producing physician-scientists as leaders in interdisciplinary medical research. She performed her residency at the Jules Stein Eye Institute at the University of California, Los Angeles, and then headed east again, this time to North Carolina, where she recently completed clinical and research fellowships in glaucoma at Duke University Eye Center. The Bay Area welcomes Dr. Ou to UCSF and to her next marathon.

Erik Ullian, PhD, is a leading researcher on the degeneration of nerve cells. A Director’s New Innovator Award from the National Institutes of Health last year identified his findings as “highly promising, novel, and broadly applicable.” As a neurobiologist, Dr. Ullian specializes in understanding how nerve cells, such as the optic nerve cells that connect eye and brain, “talk” to each other and how this communication promotes survival of nerve cells crucial to sight. ●

Your Gift Will Match the Glaucoma Challenge

Private funds are needed to underwrite this innovative research with the potential to bring new treatments more quickly to the clinic. This collaboration of basic and clinical science provides hope that cell transplantation will one day restore sight for glaucoma patients. ●

To participate in the Wornick Challenge, contact Kathleen Rydar at That Man May See (415.476.4016 or rydark@vision.ucsf.edu).

Major Research Goals

The team’s major goals are:

- Learn more about why optic nerve cells die and how to protect the cells,
- Identify drugs that can reduce sight loss due to optic nerve cell death, and
- Transplant healthy new optic nerve cells into the retina.

Potential Optic Nerve Cell Transplantation

According to Dr. Ou, “The new stem cell technology greatly increases the likelihood that optic nerve cell transplantation eventually will become a reality.” The common problem of immunological rejection is eliminated because the cells being implanted will be developed from the patient’s own tissue. This team’s knowledge of how optic nerve cells connect in the retina and brain, combined with new transplant-friendly cells, offers the first real hope of cell-based therapies for treating and preventing glaucoma.

For nearly a decade, Dr. Ullian has been exploring the development, survival, and connections of optic nerve cells. He has discovered numerous mechanisms used to induce these cells to connect correctly in the retina and brain. The team will focus on developing methods for connecting transplanted optic nerve cells into the retina and then sending axons to appropriate brain targets with the ultimate goal of restoring vision. Dr. Ou will lead the team in assessing integration and connectivity of transplanted optic nerve cells, building on her experience with retina culture systems. Her skills with another glaucoma model will help the team explore the effectiveness of experimental cell transplantations.

Bringing Together the Best

UCSF’s outstanding research environment, the excellence of this high-powered team, and the inspiring lead gift from Ron and Anita Wornick all represent the quality of resources needed to find answers for glaucoma patients today and transform treatment for the future. ●



Cover photo: Matthew LaVail, PhD
Left to right above: David Copenhagen, PhD;
David Sretavan, MD, PhD; Julie Schnapf, PhD;
Jacque Duncan, MD

NIH grant monies in 2009-2010. This fifth-place national ranking in total awards is particularly impressive given the relatively modest size of UCSF's faculty and facility for vision research.

New grants fund both basic science and clinical projects. Research devoted to aspects of retinal physiology and disease, glaucoma physiology and disease, and

"We tested about eight potential protective agents," recalls Dr. LaVail, "including a protein encoded by the ciliary neurotrophic factor gene." The tests demonstrated that this particular factor could protect retinal cells, slowing damage to the retina.

Neurotech has built on this ground-breaking research. The company produces

untested ideas. The process for requesting funding from the NIH is time consuming as well as intensely competitive. A researcher may need from six months to three years to prepare a compelling application – laboratory evidence and professional publications that detail promising findings must be developed and submitted with the project description.

Research to Prevent Blindness, the world's leading voluntary organization supporting eye research, is another foundation whose funding is crucial at UCSF and throughout the country for initiating early studies of novel approaches to treatment. Since 1991, Research to Prevent Blindness has been a loyal supporter of the department with more than \$1 million in contributions. In June, the group awarded UCSF \$100,000.

"We have assembled a remarkably talented group of researchers who are doing outstanding work across the spectrum of eye research."
– Dr. Stephen McLeod

external and immunological disease show the breadth of the UCSF vision science powerhouse.

"We have assembled a remarkably talented group of researchers who are doing outstanding work across the spectrum of eye research," according to Dr. McLeod. "From basic visual sciences through the development of new therapeutic agents, devices, and procedures to the implementation of clinical trials that determine the most effective strategies for broad implementation locally and globally, these numerous NIH awards allow our outstanding faculty to take the next steps, advancing research that brings new solutions to our patients."

Hypothesis Leads to Treatment
UCSF macular degeneration research conducted by **Matt LaVail, PhD**, and his team is now bearing fruit in an innovative patient treatment developed by Neurotech, a Rhode Island biotechnology firm. The investigation began years ago, when Dr. LaVail set out to determine whether neurotrophic growth factors shown to preserve brain cells after injury could also treat retinal degeneration. Neurotrophic growth factors are a family of proteins responsible for growth and survival of neurons.

the ciliary neurotrophic factor from human retinal cells, and it has developed a tiny encapsulated device that provides sustained delivery of the factor to the retina. Now a limited number of patients are testing the device in the first-ever clinical trial of a therapeutic designed to protect vital retinal cells from damage. Conducted by **Jacque Duncan, MD**, and following numerous successful safety tests, the UCSF clinical trial monitors and measures effectiveness. If successful, a larger trial with more patients will follow. Clinical trials are the final steps in drug safety and effectiveness certification by the U.S. Food and Drug Administration.

"Our lab is known in the field of retinal degenerations as the one that started the area of neuroprotective therapy," says Dr. LaVail. "We made the initial discovery that agents such as ciliary neurotrophic factor could slow photoreceptor degeneration. Neurotech credits our 'pioneering' research all the time and cites it as the reason they chose to develop ciliary neurotrophic factor as a therapeutic agent for clinical trials."

Seed Funds Launch Innovative Ideas
The National Institutes of Health is generally reluctant to fund early,

Private seed funding allows vision scientists to test and gather evidence for innovative hypotheses, such as Dr. LaVail's hypothesis that proteins effective in preserving brain cells might also reduce damage to cells in the eye. Dr. LaVail's early studies were supported by That Man May See and others. According to Dr. McLeod, "That Man May See has raised over \$15 million in the past four years, most of it dedicated to new vision research."

Bridge Funds Speed Results
"Bridge funding from private sources can provide a lifeline to a laboratory to keep its investigation going until federal funding is restored," explains **David Copenhagen, PhD**. A typical NIH grant provides five years of funding, with no guarantee of renewal. This leads to gaps in funding that can stall research.

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Recognition of Matthew M. LaVail, PhD

The 16th General Assembly of Retina International
June 2010, Stresa, Italy

Dr. LaVail's outstanding commitment and enthusiasm were instrumental in the establishment of an enormous worldwide body of research into retinal degenerative diseases, resulting in the current coordinated energetic and focused worldwide research effort to find treatments for retinal degenerative diseases. As one of the initiators of the retinal degeneration meetings, he was instrumental in bringing the community of researchers in retinal degeneration together. His pioneering work in growth factors, among others, has opened new doors to a treatment of retinitis pigmentosa and to the first human clinical trial.

On behalf of all those throughout the world who live with a retinal degenerative disease and their families, we formally express our sincere thanks to Professor Matthew M. LaVail for his outstanding contribution to our cause over the years. His passion and commitment have been a source of inspiration to us, and we gratefully thank him for his role in bringing us closer to a cure.

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Even nationally recognized scientists have grant applications denied, falling just on the wrong side of the funding cut-off. The time needed to revise an application guarantees a delay of at least nine months. This opens a dangerous gap in cash flow, dramatically reducing a laboratory’s capacity to cover salaries and other costs.

“Our research staff includes highly skilled individuals, trained to carry out specific research, and some have worked in the same lab for many years – up to 22 and 32 years in my lab!” says Dr. LaVail. “Layoffs of extremely valuable research staff due to temporary loss of NIH funding would be devastating. Bridge support is simply a life saver!”

Private dollars keep laboratories at the forefront of emerging technologies, maximizing productivity. According to Dr. Copenhagen, “Several years ago, That Man May See helped me buy a newly developed multi-electrode array for simultaneously recording the activity of many retinal neurons. The array saved substantial staff time, and the experiments provided valuable data for my next NIH grant application.”

Micro-Tools to Refine Surgery
UCSF vision research now under way holds great promise for patients in the future. **David Sretavan, MD, PhD,**

uses his NIH funding to develop, test, and refine a new class of minute surgical tools. “We can track disease to very small groups of tissue, but our ability to intervene surgically in this microscopic realm is limited by technology,” Dr. Sretavan says. “Current tools only let us work at the millimeter scale. The department encouraged us to investigate whether techniques we were developing for repairing nerves in the eye could be used in other kinds of eye surgery. Could we develop instruments to match the micron scale of diseased tissue?”

For his efforts to develop cellular-scale surgical tools, Dr. Sretavan’s team draws on the microfabrication methods used to manufacture computer chips. They have developed a new nano-scale surgical knife that can be fabricated from metal or silicon. The researchers are now collecting performance and safety data on the knife, using a computer model and tests on sample cells. Dr. Sretavan’s goals are to show that the devices are safe for surgery and then use them to help patients in clinical trials and beyond. The tools may allow surgeons to directly repair damaged nerve cells in glaucoma patients’ retinas. The nano-devices may also lead to improved methods for cataract surgery.

Blocking Retinal Destruction
Julie Schnapf, PhD’s research into the gap junctions between retinal photoreceptors holds promise for arresting retinitis pigmentosa and macular degeneration.

Gap junctions are protein “tunnels” that connect neighboring neurons throughout the nervous system, allowing the passage of ions, metabolites, and electrical signals. In the retina, these gap junctions play a positive role in forming the electrical code for vision. But they may also be responsible for some forms of nerve cell degeneration and retinal disease. In a process known as the “bystander effect,” retinal cells that are damaged and dying seem to generate toxic molecules that pass through gap junctions to damage their healthy neighbors. This may be partially responsible for the death of cone photoreceptors in retinitis pigmentosa and for the spread of photoreceptor death in macular degeneration.

Dr. Schnapf explains how her new NIH grant can lead to new solutions for patients: “We are working to determine the strength of gap junctional coupling between photoreceptors and to understand the extent to which this coupling can be turned on and off by light, voltage, and neurochemicals.

“We are striving to find pharmacological agents that can block the spread of toxic molecules through these gap junctions. Agents that successfully block the junctions can then be developed into therapies to rescue the photoreceptors in patients with retinal degenerative diseases.”

As part of last year’s economic stimulus package, Dr. Schnapf’s lab was awarded a \$245,000 grant supplement. The funds will provide her team with a new microscope to monitor the flow of molecules between photoreceptors and directly test the effects of potential blocking agents. ●

Recent Gifts to That Man May See

Thank you for generous contributions and pledges for vision research, teaching, patient care, and community outreach received between July 1, 2010, and September 30, 2010.

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Dear Friends of That Man May See,

We are pleased to send you That Man May See’s annual report for fiscal year 2009-2010. Your gifts this past year have made the difference in funding leading-edge research focused on discoveries that can overcome the most challenging conditions of vision loss and blindness.

Your support plays a significant role in keeping our outstanding vision science faculty at the forefront of patient care, research, and ophthalmology education. With your help, the Department of Ophthalmology and the Francis I. Proctor Foundation for Research in Ophthalmology are advancing science and solutions for age-related macular degeneration and other retinal disorders, glaucoma, infectious and inflammatory conditions of the eye, childhood blindness and vision loss, and the epidemics of eye disease in the developing world.

In these times of fiscal caution, we especially want to underscore our attention to the bottom line. Our staff at That Man May See carefully manages finances to maximize the impact of your generosity on efforts that save and restore sight. From seed funding to leadership investments, private contributions can change research paradigms, reducing the time from early discovery to clinical application. We work diligently to leverage all that you contribute.

UCSF patients and people around the world benefit from your gifts. The board of That Man May See joins me in thanking you for being a beacon of hope. We appreciate you and the work you make possible.

Sincerely,

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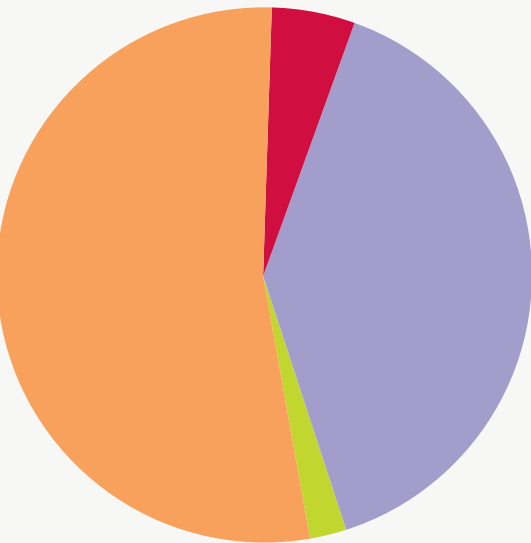
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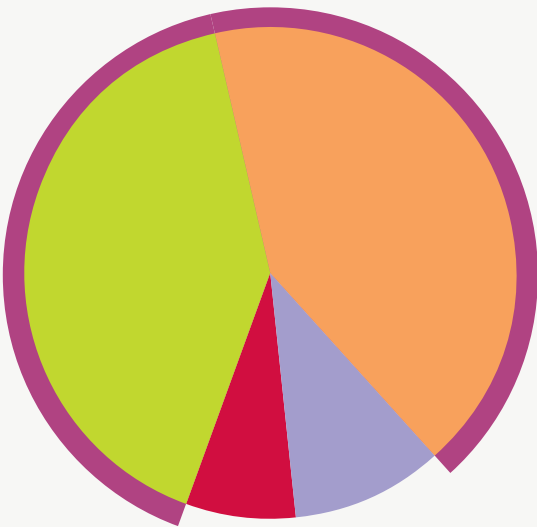
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| Sources of Funds | Direct to TMMS | Via Other UCSF Entities* | Total | % |
|---|----------------|--------------------------|-------------|------|
| Donations and new pledges from Individuals | \$1,351,127 | \$353,556 | \$1,704,683 | 53% |
| Donations and new pledges from Corporations and Foundations | \$61,839 | \$108,000 | \$169,839 | 5% |
| Bequests and Trusts | \$320,767 | \$950,000 | \$1,270,767 | 40% |
| Earnings on Deposited Funds** | \$76,808 | | \$76,808 | 2% |
| Total Revenue | \$1,810,541 | \$1,411,556 | \$3,222,097 | 100% |

*Board of Regents & UCSF Foundation
**Includes fee reimbursements from UCSF



| Application of Funds | Actual | % |
|--|-------------|------|
| Research, Education, Patient Care, and Community Services: | | |
| Dispersed Funds | \$1,326,586 | 41% |
| Committed Funds | \$1,346,426 | 42% |
| Fundraising | \$330,606 | 10% |
| Management and Administration | \$218,479 | 7% |
| Total Expenses | \$3,222,097 | 100% |

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Remembering Special Friends of That Man May See

Pearl T. Kimura A Legacy of Hope

Generous, intelligent, joyful, and courageous, Pearl Kimura passed away July 26, after a stroke, at the age of 96. She left her mark, her legacy, and her wild optimism – especially for That Man May See.

Despite setbacks that included the tragic loss of her UCSF ophthalmologist husband, Samuel J. Kimura, MD, in 1979, from a car accident in Spain that involved them both, and the loss of her home and possessions in the 1991 Berkeley Hills fire, Pearl chose a license plate that read LKY PRL (Lucky Pearl), a motto she lived by every moment of her full and productive life.

Nearly 40 years ago, Pearl was involved with her husband in founding That Man May See, the nonprofit public charity which supports vision research, education, and patient care at UCSF. Pearl’s spirit is woven into the fabric of That Man May See, the Francis I. Proctor Foundation for Research in Ophthalmology, and the Department of Ophthalmology. She was devoted to the cause of fighting vision loss and generously funded the Pearl T. and Samuel J. Kimura, MD, Chair; the Samuel J. Kimura, MD, Endowment Fund; and the Pearl and Samuel J. Kimura Ocular Immunology Laboratory at the Proctor Foundation. She established the Samuel J. Kimura Visiting Professorships in Ophthalmology, the annual Samuel J. Kimura Lecture, and the UCSF-Japan Eye Society Fund.

Pearl included That Man May See in her estate plan with these words, “My legacy gift to That Man May See is a way of perpetuating my husband’s wishes and helping to support the vision research that he would have continued.”

“Pearl will live on in all of us whose lives she touched with her kindness, her sense of adventure, and her humanity,” said John Whitcher, MD, who was mentored by Dr. Samuel Kimura.

Early life and interest in medicine. Pearl was born in Gilroy, California, into a family dedicated to farming. After graduating as valedictorian of her high school class, she enrolled at the University of California, Berkeley, and received her BA in nursing at UCSF in 1939. In 1941, Pearl’s parents were forced to sell their farm and relocate to the Poston relocation camp in Arizona. During the war, young Samuel Kimura served the United States war effort on the European front, and Pearl worked and studied in the clinical laboratories at Washington University in St. Louis.



In 1949, Pearl accompanied her husband to Nagasaki, Japan, at the invitation of the Atomic Bomb Casualty Commission, to study the effects of radiation on the eyes of survivors of the Hiroshima and Nagasaki bombings. She was employed to assist in research and to serve as language interpreter, helping to establish eye clinics and train nurses at the Japanese Red Cross Hospital in Hiroshima.

Sacred treasure. Since her youth, Pearl studied and promoted ikebana (the Japanese art of flower arranging) and related arts. She served as a leader for the local chapter of Ikebana International and director of the local branch of Sogetsu Ikebana. At Golden Gate Park’s Strybing Arboretum, she helped to establish the Garden of Fragrance, which features plants with scents and textures that make them accessible to the visually impaired. She also supported the planting of more than 1,000 flowering Japanese cherry trees throughout the park.

In 1993, the government of Japan awarded Pearl the Order of the Sacred Treasure, Gold and Silver Rays, in recognition of her long-term contribution to promoting U.S.-Japan relations. She touched everyone by her generous presence and enormous spirit, bringing people together right into her 96th year, promising she would live another 20. Pearl will be remembered always as the treasure of UCSF Ophthalmology.



Pearls for Pearl: Pearl Kimura and Kathleen Rydar, president of That Man May See, share a happy moment together.

Jerry Cole Supporter of AMD Research

Longtime San Francisco resident Jerry Cole passed away in Santa Cruz last spring. Born in North Carolina, Jerry grew up on military bases from the Philippines to the Monterey Peninsula and had recently returned to Carmel after fifty years in the City. Jerry and his wife Geraldine support That Man May See, appreciate UCSF’s care, and add grace and a twinkle to every occasion. The cause of saving and restoring sight is important to the Cole family. Jerry was a gifted watercolorist, classical music connoisseur, and lover of fine print. The couple traveled extensively with friends and colleagues to visit rare book collections throughout Europe. Jerry will be dearly missed, and That Man May See is grateful for Gerry’s continuing friendship.

Arthur Harper Commitment to Saving Sight

Resident of Piedmont and longtime friend of That Man May See, Arthur Harper passed away recently. He and his wife Shirley were deeply engaged in work to save sight, stemming from Shirley’s mother’s battle with age-related macular degeneration. The couple’s generosity helped build UCSF’s Koret Vision Research Laboratories and its specially equipped Visual Neuroscience Laboratory. They also supported an endowed professorship honoring Steven G. Kramer, MD, and thoughtfully remembered That Man May See in their will. Art championed research for blinding disorders by serving on That Man May See’s board of directors from 1994 to 2001, always providing humor to lift the spirits of staff and board while he raised funds and friends for the cause. ●

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415.476.3100

Cataract and Cornea Care
415.476.3705

Glaucoma Care
415.476.3707

Neuro-Ophthalmology
415.476.7176

Ocular Oncology Care
415.502.3206

Ocular Plastic Surgery
415.353.2800

Pediatric Ophthalmology
415.353.2800

Proctor Medical Group
415.476.1442

Retinal Care
415.353.2402

Vision Correction Surgery Center
415.476.5698
Individualized vision
correction surgery, including
LASIK and PRK

Faculty and Alumni News

FACULTY NEWS



David Hwang, MD
International Scientific Program Chair: Ocular Microbiology Section, 50th Asia-Pacific Association of Ophthalmology annual meeting, Beijing, China



Bennie H. Jeng, MD
Appointment: Editorial Board of *Archives of Ophthalmology*, one of the premier ophthalmology journals in the world.



Robert C. Kersten, MD, FACS
Invited Lecturer: New advances in treatment of orbital soft tissue trauma and orbital fractures. Universiti Malaysia Sarawak, Kuching, Sarawak, Malaysia



Matthew M. LaVail, PhD
Primary Organizer: XIV International Symposium on Retinal Degeneration, Mont-Tremblant, Quebec, Canada

After more than two years of planning, this scientific meeting, held every other year, was a tremendous success by all measures, including size: it was the largest ever with 260 participating specialists.



Todd P. Margolis, MD, PhD
Invited Lecturer: Please do not call it dry eye. Royal College Lecture, Canadian Ophthalmological Society, Quebec, Canada

Dr. Margolis delivered an important message: for treatment to be most effective, clinicians need to differentiate between various forms of ocular surface disease, which are commonly misdiagnosed as dry eye.



Nancy McNamara, OD, PhD
Publication: Chen YT, Nikulina K, Lazarev S, Bahrami AF, Noble LB, Gallup M, **McNamara NA**. Interleukin-1 as a phenotypic immunomodulator in keratinizing squamous metaplasia of the ocular surface in Sjögren's syndrome, *American Journal of Pathology*, 2010 Aug 9, E-publication preceding print: <http://www.ncbi.nlm.nih.gov/pubmed/20696775>

In a breakthrough for research on the visually disabling disease Sjögren's syndrome, Dr. McNamara and colleagues describe a new model of autoimmune mediated dry eye disease that closely mimics the human disease.



Tina Rutar, MD
Publication: Analysis of clinical misdiagnoses in children treated with enucleation. Huang S, **Rutar T**, Bloomer M, Crawford JB. *Archives of Ophthalmology*, 2010 Aug; 128(8):1009-13.

Dr. Rutar and colleagues reported on misdiagnoses in pediatric enucleation, the surgical removal of a child's eye. They found a 4 percent misdiagnosis rate over the last 50 years, which fortunately decreased over time. The analysis reminds ophthalmologists that various disorders can mimic retinoblastoma in a child's eye, and that histopathology can rarely show a diagnosis different from that entertained by the treating ophthalmologist.

ALUMNI NEWS



Michael Jumper, MD
Election: President of the Frederick C. Cordes Society, the UCSF alumni association for ophthalmology



Paul Lichter, MD
Election: President of Academia Ophthalmologica Internationalis, the most prestigious international academic organization in ophthalmology



Lawrence Sincich, PhD
Appointment: Assistant Professor, Department of Vision Sciences (School of Optometry) and the Department of Neurobiology (School of Medicine), University of Alabama, Birmingham

To celebrate the 60th anniversary of his graduation from the UCSF Medical School, ophthalmologist Stacy Mettier, MD, made a generous gift of \$100,000 to That Man May See to advance vision research. Thank you, Dr. Mettier!

Save the Date:
Cordes Annual Scientific Meeting
Friday, March 11, 2011



The Frederick C. Cordes Eye Society Alumni Association for UCSF Ophthalmology – Current Members

| | | | | |
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| Nieca Caltrider, MD | John Hetherington, MD | Michael Kelly MacDonald, MD | Sanford L. Severin, MD | Pickett at 415.476.4016 or |
| Arnett Carraby, MD | Dean Hirabayashi, MD | Eugene B. McLaurin, MD | Shiroaki Shirato, MD | pickettd@vision.ucsf.edu . |
| Susan R. Carter, MD | H. Dunbar Hoskins Jr., MD | Stephen D. McLeod, MD | Rajbir Singh, MD | |
| David F. Chang, MD | William F. Hoyt, MD | Ronald B. Melles, MD | John W. Snead, MD | |



How a Thin Piece of Plastic Saves and Restores Sight

“They put them in my eyes, and it was like a miracle,” says Peter Locke. A patient of Todd Margolis, MD, PhD, at UCSF’s Francis I. Proctor Foundation for Research in Ophthalmology, Peter tells a story of vision loss and pain solved by an innovative lens developed in Boston by Perry Rosenthal, MD. Dr. Margolis is passionate about bringing this device and its use to the Bay Area.

A few years ago, tests revealed Peter’s leukemia, and he underwent chemotherapy at Alta Bates Hospital while the search for a bone marrow donor began. The match was a young man from Ohio, and the transplant took place at UCSF. All went beautifully. Except that sometimes cures bring about other challenges, such as graft-versus-host disease, which 85 percent of bone marrow transplant recipients experience.

Graft-versus-host disease is a complication in which functional immune cells in the transplanted marrow recognize the recipient as “foreign” and mount an immunologic attack. Peter’s eyes became extremely dry, and his skin began to crackle. The pain was excruciating.

Proctor Foundation Provides Help

Enter Dr. Margolis! “We like Dr. Margolis so much because he understands ocular pain management,” says Peter. “Our whole experience with the Proctor group is amazing, from the front

desk to the examination rooms. And the fellows in training are exceptional.”

“UCSF has opened up our lives in so many ways,” explains Peter’s wife Tina. “These doctors are now our friends, our family, as we were there daily for such long periods of time.”

Dealing with the immune attack to the surface of Peter’s eyes required a novel approach and a trip East for specially manufactured contact lenses at the Boston Foundation for Sight. The gas-permeable prosthetic domes, each about the size of a nickel, are worn during waking hours. They allow oxygen to reach the cornea, with a sterile saline solution floating in the reservoir of the device.

“We have been shouting from the rooftops about this lens ever since they put it into his eyes for the first time,” marvels Tina. “The relief was amazing, and his quality of life transformed.”

Bringing the device and training to UCSF would be a boon for local patients with severe dry eye conditions. Traveling to Boston, staying in a hotel, lens fittings, and up to two weeks of training in how to use them can be impediments to some. “We were lucky,” says Peter, who retired from Citigroup ten years ago. “It has become a full time job to take care of my eyes. We’d like to see Dr. Margolis’s dream come true – with this opportunity made available to the people of the Bay Area. UCSF is one of the best health centers in the country, and so it needs the best options for care.”

“We like Dr. Margolis so much because he understands ocular pain management.”

– Peter Locke

Expanding Treatment Possibilities

UCSF’s Proctor Foundation and Department of Ophthalmology seek funding for specialized medical staff and education, to provide Bay Area patients with PROSE fitting and training at the Parnassus campus. Many patients who lack the resources for travel and training in Boston could then find relief from a wide range of debilitating symptoms closer to home.

The Lockes have made a gift to That Man May See in honor of Dr. Margolis and to help establish a fund at the Proctor Foundation to realize this dream. ●

To participate in funding this project, contact Kathleen Rydar at That Man May See (415.476.4016 or rydark@vision.ucsf.edu).

Pioneering New Prosthetic

Corneal disease and other dry eye disorders often inflict pain, sensitivity to light, and difficulty seeing. Prosthetic Replacement of the Ocular Surface Ecosystem (PROSE) is a pioneering treatment developed by the Boston Foundation for Sight in Massachusetts. Its PROSE devices, such as those that Proctor patient Peter Locke now wears, can successfully approximate the functions of a healthy ocular surface. ●



That Man May See is a 501(c)3 public charity. Its mission is to raise funds for the dedicated faculty of UCSF Ophthalmology to make possible breakthroughs in vision research, state-of-the-art patient care, and educational opportunities for residents and fellows.

To make a gift of cash or securities, go to www.ucsfeye.net/tmms/shtml or contact Danielle Pickett at 415.476.4016 or pickettd@vision.ucsf.edu. Checks are payable to That Man May See.

That Man May See
10 Koret Way, Box 0352
San Francisco, CA 94143-0352
tmms@vision.ucsf.edu
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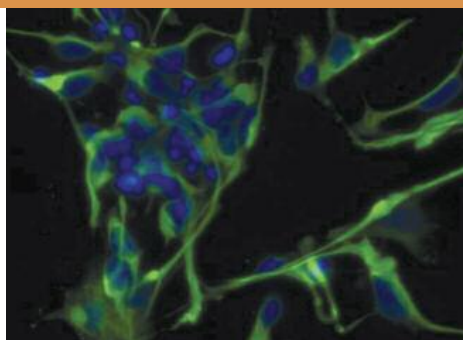
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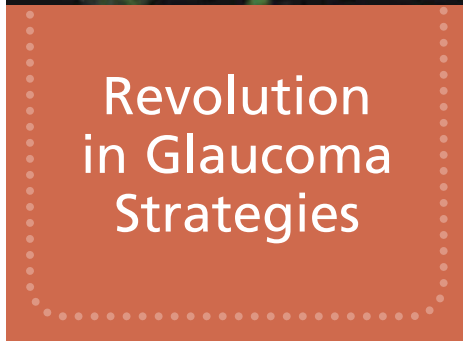
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That Man
May See
Annual Report



Pioneering
Treatment
for Dry Eye



Welcome First-Year Residents

Justin T. L. Baynham, MD

Born Houston, Texas

College/Major University of Virginia College of Arts and Sciences/Biology

MD University of Virginia School of Medicine

Internship Georgetown University/Fairfax INOVA Hospital, Fairfax, Virginia

Ashleigh L. Levison, MD

Born Detroit, Michigan

College/Major Boston College/Biology

MD University of Miami School of Medicine

Internship St. Joseph's Hospital and Medical Center-CHW, Phoenix, Arizona

Scott M. McClintic, MD

Born Columbus, Ohio

College/Major University of Michigan College of Engineering/Biomedical Engineering, Biotechnology

MD Ohio State University College of Medicine

Internship Riverside Methodist Hospital, Columbus, Ohio

Julie M. Schallhorn, MD

Born San Diego, California

College/Major University of California, Los Angeles/Chemical Engineering; University of California, San Diego/Bioengineering

MD Keck School of Medicine, University of Southern California

Internship Huntington Memorial Hospital, Pasadena, California

New doctors who began UCSF's top-ranked ophthalmology residency program in Fall 2010 are (left to right): Justin Baynham, Ashleigh Levison, Scott McClintic, Julie Schallhorn, and Michael Seider.

Michael I. Seider, MD

Born Los Angeles, California

College/Major University of Michigan/General Studies

MD University of Miami School of Medicine

Internship Huntington Memorial Hospital, Pasadena, California