

THE FUTURE OF Vision

Fall 2019

University of California, San Francisco | Department of Ophthalmology | Francis I. Proctor Foundation | That Man May See



Webcor builders at the Wayne and Gladys Valley Center for Vision are proud to be part of the Bay Area community that will benefit from the new eye clinics.

Koret Vision Clinics World-Class Vision Care for All

New Koret Vision Clinics will increase accessible, innovative vision care for the Bay Area and the world.

The San Francisco Bay Area is home to some of the world's leading tech firms, philanthropies, and universities, earning its reputation as a global hub for research, development, and transformative

applications of new technology. This city of innovators and problem solvers is home to a thriving community of top-tier vision scientists and advocates, dedicated to discovery toward breakthroughs to halt vision loss and blindness and restore sight.

UCSF's Department of Ophthalmology and Francis I. Proctor Foundation comprise one of the top 10 eye

Continued on page 2

A PEEK INSIDE:



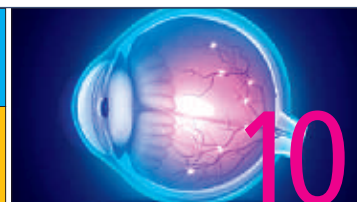
Retinal Disease: Novel Approaches



2019 Visiting Scholars



New Faculty



Research to Prevent Blindness



FOCAL POINT

Dear Friends,

Join us as we celebrate the naming of the Department of Ophthalmology's new clinics at Mission Bay. The Koret Vision Clinics will serve patients in our new Wayne and Gladys Valley Center for Vision.

UCSF leads the way in revolutionary biomedical innovation. The opportunity now is to apply the power of this remarkable research community to the most pressing challenges in visual impairment and blindness, thereby advancing UCSF Ophthalmology's mission to preserve and restore sight for all, here and around the world.

We welcome new faculty as well as our fellows and residents to both the Department and the Proctor Foundation. Our physicians stand out among the best in the country for commitment to patient care and our scientists and clinician-scientists for their relentless pursuit of new discoveries that will help all who suffer visual disability and blindness.

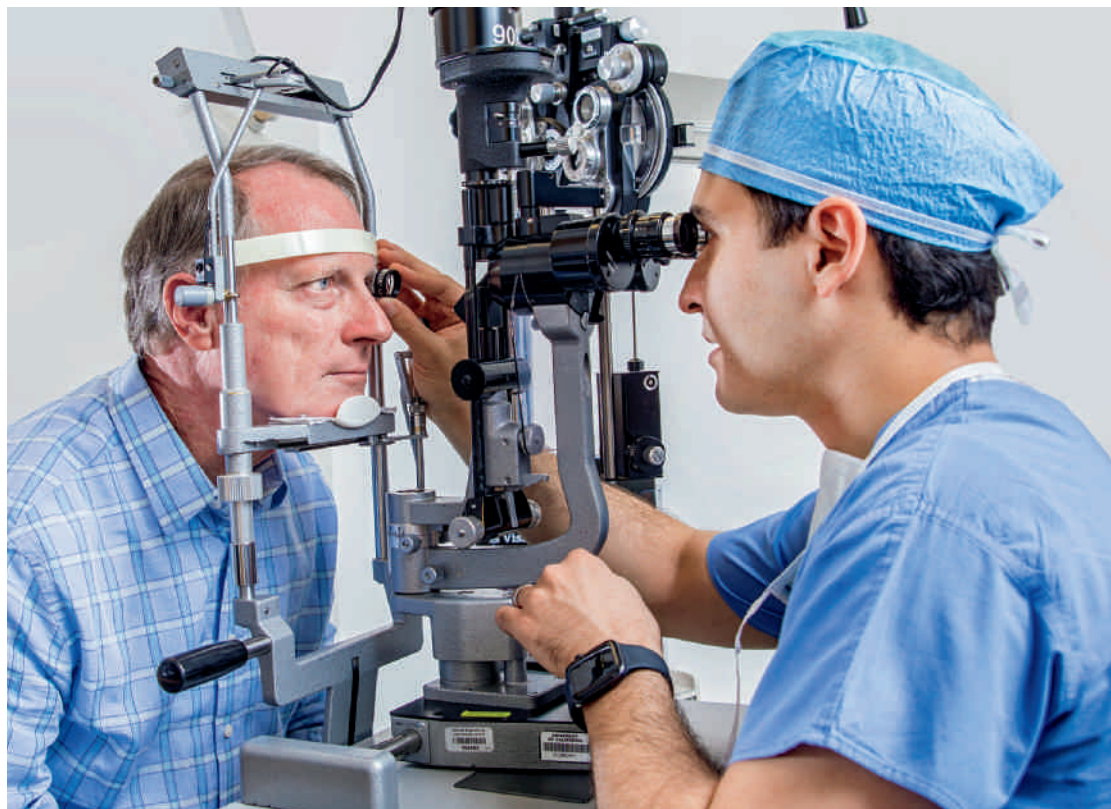
We are deeply grateful for your support of our mission.

Sincerely,

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

World-Class Vision Care for All

Continued from page 1



Ocular oncologist Dr. Armin Afshar used precision medicine to diagnose David O'Donnell's melanoma, which was treated with highly targeted proton beam radiotherapy.

centers in the country and ranks first for National Institutes of Health funding for vision research at public universities (second overall). The UCSF Medical Center and UCSF Ophthalmology are ranked #1 in Northern California.

Honoring Community, Service, and Vision

The Department of Ophthalmology is pleased to announce that its patient care facilities in the new UCSF Wayne and Gladys Valley Center for Vision at Mission Bay will be named the Koret Vision Clinics.

The Clinics are made possible by a generous \$10 million gift from the Koret Foundation. A San Francisco-based foundation, Koret works to strengthen the Bay Area through strategic grantmaking to outstanding organizations like UCSF and That Man May See, a nonprofit that raises the funds for the Center and works to support patient care, vision research, and education.

The Department's highly specialized ophthalmologists welcome an influx of patients from northern California, across the United States, and abroad, seeking

the best care for the most complex vision disorders. The size and scope of the Koret Vision Clinics will substantially increase the number of patients seen each year and is anticipated to impact thousands.

The 2020 opening of the Koret Vision Clinics marks an auspicious new chapter devoted to sight for all. The new facilities will be a nucleus for research, teaching, and care, a place where leading experts collaborate with one another, patients, and the community to translate discoveries to clinical solutions.

Leading-Edge Collaborative Care

The Koret Vision Clinics will feature a state-of-the-art ophthalmic surgical suite for technologically sophisticated, minimally-invasive procedures, as well as specially equipped procedure rooms for vision correction and oculoplastic surgery.

Adjacent to the Koret Vision Clinics will be the Proctor Clinic, which specializes in infectious and inflammatory eye disorders and will strengthen team care for patients with interrelated eye disorders. The facilities will optimize surgical training for tomorrow's vision care pioneers.

The Koret Vision Clinics will bring together services for cornea, glaucoma, neuro-ophthalmology, oculoplastics, ocular oncology, and vitreoretinal disease, as well as comprehensive ophthalmology and optometry.



Bay Area residents like the Ear Family are grateful for UCSF’s highly specialized vision care.

The layout of the Wayne and Gladys Valley Center for Vision and the Koret Vision Clinics integrates color coding and other visual cues for easy navigation by the sight impaired. Ultimately, every aspect of the space is thoughtfully constructed to create a welcoming environment for positive and productive vision care.

Local and Global Impact

“Koret looks for leading institutions to help elevate the quality of life in the Bay Area, especially for the most vulnerable among us,” said Jeffrey Farber, chief executive officer of the Koret Foundation. “By supporting this world-class facility, programs, and faculty, we are helping to advance the field of vision medicine while ensuring quality care for those with

complex sight challenges. Improving access to research-informed care is a commitment we’re proud to make.”

UCSF’s vision scientists continually strive to make progress toward That Man May See’s goal that, one day, all may see. The opening of the Koret Vision Clinics represents a major step toward a future of vision for all.

The Bay Area has already proven itself a global leader across many sectors. The Koret Vision Clinics will help UCSF vision scientists expand their world-class patient care and research, ensuring that, in 2020 and beyond, a brighter future awaits. 👁

“Improving access to research-informed care is a commitment we’re proud to make.”

— Jeffrey Farber, chief executive officer of the Koret Foundation

The Koret Foundation

is committed to strengthening the Bay Area through strategic grantmaking to outstanding organizations. Grounded in historical Jewish principles and traditions, and dedicated to humanitarian values, the Foundation invests in effective community organizations to address key challenges in higher education, K-12 education, arts and culture, and the Jewish community. Learn more about the Koret Foundation and its grantees at www.koret.org.



Jeffrey Farber, CEO

Halting Retinal Sight Loss

Patients with glaucoma and retinal degenerations need better solutions. Researchers deploy advanced tools to find novel ways to save their sight.

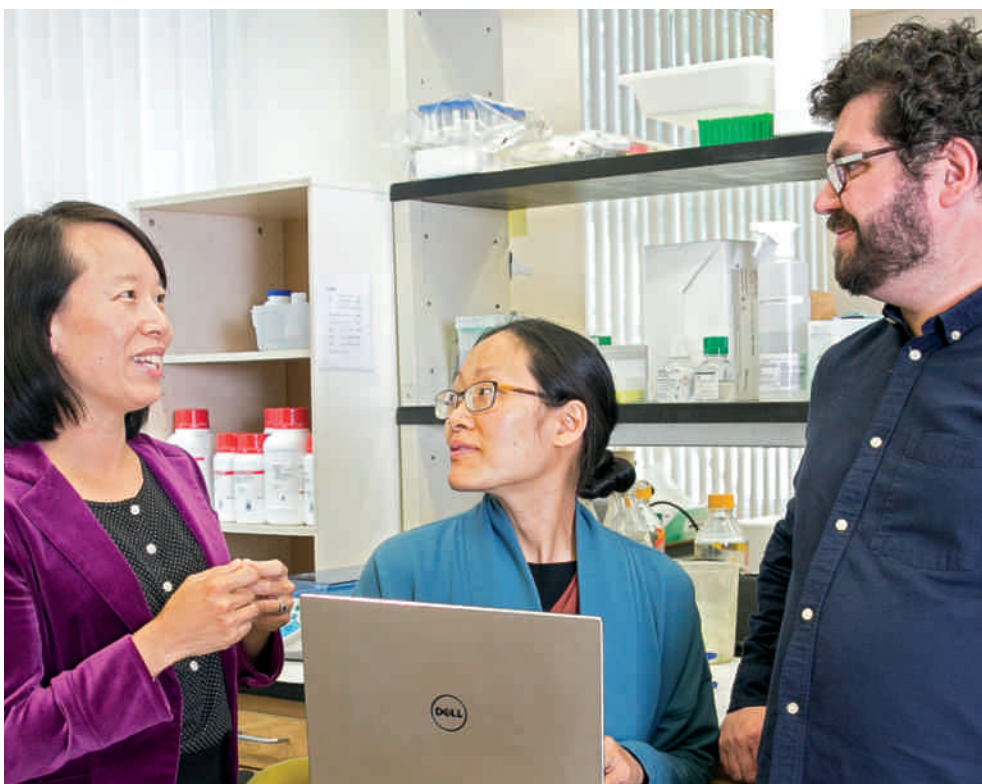
Protecting Vulnerable Cells

Christie Hastings knows firsthand that glaucoma steals sight. By the time she noticed blurring in her visual field, her sight was irreversibly compromised. Innovative avenues that identify glaucoma earlier and treat it more effectively promise to transform outcomes for patients like Christie.

"Patients need more effective strategies," says glaucoma specialist **Yvonne Ou, MD**. To advance novel paradigms to halt the disease, Dr. Ou collaborates with two co-investigators: physiologist **Felice Dunn, PhD**, and neuroscientist **Luca Della Santina, PhD**.

The team uses molecular, anatomical, electrophysiological, and modeling techniques to understand how increased eye pressure, common in glaucoma, affects potentially weaker retinal nerve cells and their neighbors. They also explore how retinal circuits mend themselves and continue functioning even when some cells are damaged.

"Learning how to protect the retinal nerve cells most vulnerable



To halt glaucoma, Dr. Ou, Dr. Dunn, and Dr. Della Santina investigate novel avenues for preventing damage to retinal nerve cells.

to damage is key to stopping glaucoma," says Dr. Dunn. "We're excited to pursue this promising direction."

Altering Genes to Save Sight


Retinitis pigmentosa is a major interest for geneticist **Douglas Gould, PhD**. Dr. Gould and his team explore how "quality control" mechanisms inside retinal cells try to fix or dispose of mutated proteins.

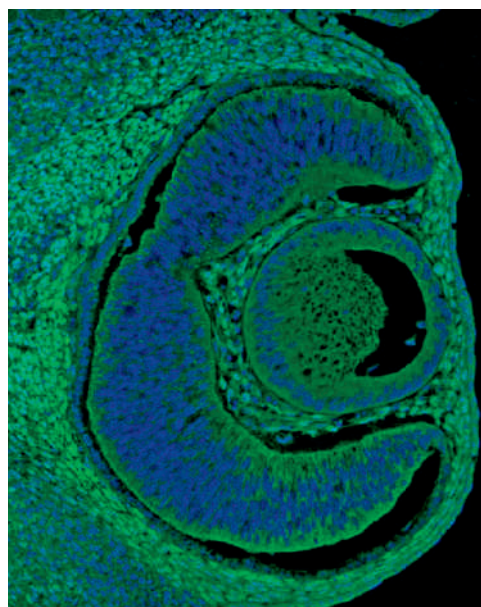
Lorie Hirson is losing her sight to retinitis pigmentosa, but she is hopeful that future generations will be spared. "Vision scientists are getting closer to answers that will change our lives," she says. "We're proud to support their research."

In this inherited disease, mutations in a particular protein cause the light-sensitive retinal cells to die off. Dr. Gould's team will test whether altering this cellular process can preserve vision. If so, treatments to alter this process could potentially preserve sight for patients like Lorie.

Prenatal Signs of Glaucoma

Children as young as six months can get glaucoma and its companion, high intraocular pressure. Genetic mutations that lead to the formation of defective ocular cells and tissues in the front of the eye may lead to glaucoma in infancy or later in life.

Dr. Gould uses advanced imaging and molecular techniques to investigate how the front of the eye develops. "By understanding genes that contribute to structural defects, we will open new doors to glaucoma prevention and treatment," says Dr. Gould. 



Dr. Gould's team of geneticists explores whether faulty formation of the front of the eye can cause glaucoma. This image shows the anterior segment during development.



Geneticist Doug Gould, PhD, Leads Five NIH Investigations

In addition to vision research, Dr. Gould's team now explores how genetic mutations may lead to early-onset strokes and age-related cognitive impairment. Research on ocular development led to these additional lines of inquiry.

Research support provided by the National Institutes of Health, Research to Prevent Blindness, and friends of That Man May See.

Clinical Fellows 2019



- 1 **Musa Abdelaziz, MD** - Oncology
MD Washington University
Birthplace Ramallah, Palestine
- 2 **Kareem Moussa, MD** - Uveitis
MD Duke University
Birthplace Cairo, Egypt
- 3 **Miel Sundarajan, MD** - Uveitis
MD Baylor University
Birthplace Matanzas, Cuba
- 4 **Davin Ashraf, MD** - Oculoplastics
MD UCLA
Birthplace Los Angeles, CA
- 5 **Travis Redd, MD** - Cornea
MD Oregon Health & Science University
Birthplace Crescent City, CA
- 6 **Greg Bever, MD** - Retina
MD Boston University
Birthplace Bay City, MI
- 7 **Mehak Aziz, MD** - Glaucoma
MD University of North Carolina
Birthplace Lahore, Pakistan

Visiting Scholars 2019



- 1 **Dina Tadros, MD, PhD**
Pediatric Ophthalmology and Genetics
MD Tanta University
Birthplace Tanta, Egypt
- 2 **Yi Chen, MD** - Retina
MD Wannan University
Birthplace Anqing, China
- 3 **Xi Liu, MD** - Refractive Surgery
MD The First Hospital Affiliated to
Army Medical University
Birthplace Chongqing, China
- 4 **Oluwatobi Idowu, MD** - Oculoplastics
MD: Ladoko Akintola University
Birthplace Abeokuta, Nigeria
- 5 **Dongwei Liu, MD** - Retina
MD Anhui Medical University
Birthplace Guoyang, China
- 6 **Tong Zhao, MD** - Retina
MD Peking University
Birthplace Taian, China

Additional Visiting Scholars: Jingchang Chen, MD Pediatric Ophthalmology and Strabismus MD Guangzhou Medical University
Linyan Wang, MD Oculoplastics MD Zhejiang University | Jian Wu, MD Glaucoma MD Capital Medical University | Qi Zhang, MD Glaucoma
MD Chongqing Medical University | Hwa Lee, MD Oculoplastics MD Korea University | Yu Tian, MD Cornea MD Hunan Medical University

Welcome New Faculty



Dr. Catherine Q. Sun

holds an appointment with the Department of Ophthalmology as a glaucoma specialist. Her UCSF training and its emphasis on research helped her stand out for a prestigious Heed Fellowship last year.

MD: UCSF

Residency: UCSF

Fellowship: Bascom Palmer Eye Institute, University of Miami (Glaucoma)

Q What do you aim to achieve at UCSF?

A I look forward to contributing to the growth of our excellent glaucoma division and department. I also want to advance glaucoma clinical care through interdisciplinary research.

Q Why did you choose glaucoma?

A I enjoy providing longitudinal care and surgical solutions for patients. Research to improve diagnostic and therapeutic strategies can transform the lives of millions of people facing glaucoma.

Q How has your training shaped your research path?

A UCSF emphasizes evidence-based medicine. As residents, we were given dedicated research time and presented our projects annually. The innovation was impressive! As a fellow, I used the IRIS Registry (the nation's largest eye database) to study glaucoma surgical outcomes. Investigation of big data holds so much potential for breakthroughs in care. I'm excited to continue to learn and innovate.

Q Why do you want to initiate "point-of-care" clinical trials?

A This promising type of study is embedded into regular medical care. It's a practical approach that can recruit large numbers of participants quickly and yield data from real-world ophthalmic care, using participants' electronic medical records. These trials have the potential to accelerate research that benefits eye patients.

Q What sparked your interest in clinical trials?

A As a medical student, I spent a research year with the Proctor Foundation. Wonderful mentors there taught me the ins and outs of randomized controlled trials, which compare treatment efficacy. In my fellowship, I learned from mentors who conducted some of the pivotal glaucoma trials that guide practice today.

Q How do you unwind?

A I like good meals with friends, seeing musicals and ballet, traveling, and staying active with dance classes, running, and hiking. I often head to the South Bay on weekends to catch up with old friends and family. 🧘



Dr. Tyson Kim

holds an appointment with the Department of Ophthalmology. As an optical engineer, biomedical scientist, and cornea and external disease specialist, he aims to impact the future of ophthalmology by studying eye disease and inventing novel solutions for sight.

MD: UCSF

PhD: UCSF/UC Berkeley (Bio-engineering)

Residency: Kellogg Eye Center, University of Michigan

Fellowship: Bascom Palmer Eye Institute, University of Miami (Cornea and External Disease)

Q What drew you to ophthalmology?

A The personal reward in helping a patient regain sight is very high. I love microsurgery and how a procedure can be transformative in a patient's quality of life. Ophthalmology also aligns with my interests as a scientist and innovator. It is a phenomenal field for translating research and technology into improvements in patient care.

Q How will you grow your research here at UCSF?

A I will build a research lab that utilizes and develops advanced optical methods to study eye disease. One part of my research program will combine femtosecond laser technologies with transgenic models of disease to observe and alter cellular behavior during abnormal blood vessel development in the living eye. This can be particularly powerful for studying disease processes that are hard to recapitulate outside the body.

Another aspect of my research focuses on the development and translation of low-cost and easy-to-use technologies in ophthalmic care.

Q How were you instrumental in creating the RetinaScope?

A RetinaScope is now a multi-institutional effort that originally started at UC Berkeley and UCSF. I'm one of the inventors and led several clinical trials validating the technology.

The device is an easy-to-use and low-cost way to image the retina. It can effectively detect referral-warranted diabetic retinopathy. We're seeing how the technology can grow and hope to make it very accessible for places where it's most needed.

Q How do you enjoy your time outside of medicine?

A I enjoy the city's fun food culture and the Northern California outdoors. Music helps keep me balanced, and I like playing the violin. I also enjoy traveling. 🎻



Dr. Benjamin F. Arnold

is an infectious disease epidemiologist and biostatistician with expertise in the design and analysis of large-scale field trials (clinical trials conducted outside of medical centers). He joins the Proctor Foundation, which leads some of the largest field trials in the world, many in sub-Saharan Africa.

PhD: UC Berkeley (Epidemiology)
MPH: UC Berkeley (Epidemiology/
MA: UC Berkeley (Biostatistics)
Previous Position: UC Berkeley,
Research Scientist

Q What attracted you to the Proctor Foundation?

A Honestly, I've never seen a more dynamic and productive research faculty. They integrate extremely well across disciplines, which is where I think the most creative science tends to happen. A growing part of my research focuses on accelerating the elimination of neglected tropical disease through better surveillance methods. Proctor's focus on global trachoma elimination is a perfect fit.

Q What are the big takeaways from your studies on reducing diarrheal disease and malnutrition?

A These maladies account for an enormous global disease burden. Although public health interventions such as cleaner water and nutritional supplements can prevent them in theory, it has proven difficult to dramatically improve child outcomes in practice.

I plan to use lessons from 10-plus years of trials in this area to strengthen Proctor's efforts to end trachoma and reduce child mortality.

Q What interests you about leading the Data Coordination Center?

A I'm excited to lead this large team of data scientists. As a methodologist, I think that combining the rich information we collect from study sites around the world with state-of-the-art data science will yield important new insights for eliminating disease. Mentoring junior scientists is one of the best ways to stay abreast of the latest scientific developments – especially in the fast-moving field of data science.

Q What is your life like outside of medical research?

A My family and I live a semi-rural existence at the edge of Oakland, complete with three children and a menagerie of horses, honey bees, and chickens. I love mountain biking with my kids on the trails near our house. 🐾



Dr. Seanna Grob

joins the Department of Ophthalmology as a specialist in oculoplastic and reconstructive surgery. She served on the Harvard Medical School faculty for a year after completing her residency as the Chief Resident/Director of Ocular Trauma.

MD: UC San Diego
Masters Degree: UC San Diego
(Clinical research)
Residency: Harvard University/
Massachusetts Eye and Ear Hospital
Fellowship: UC Irvine (Oculoplastic
and reconstructive surgery)

Q What did your post-residency faculty year teach you?

A I learned a lot about patient care for eye trauma, general ophthalmology, and resident education. I discovered that teaching and supervising are skills that require continual refinement. I learned how much I enjoy supporting residents through training and helping patients through challenging times.

Q What led you to start a mental health clinic side by side with the eye trauma unit there?

A The primacy of sight and the suddenness of eye trauma and vision loss heighten post-traumatic emotional responses. Patients were very excited to get mental health support. As I set it up, I realized that it could be helpful for many vision specialties. I hope to develop similar collaborations at UCSF.

Q Why did you choose oculoplastic surgery as your specialty?

A During an oculoplastics sub-internship in medical school,

I enjoyed the combination of ophthalmology, head and neck surgery, plastic surgery, and dermatology. My exposure to oculoplastics as a resident and during fellowship furthered my excitement and dedication. My mentors inspired me with their passion for oculoplastics.

Q What motivated you to choose a position at UCSF?

A I'm joining an amazing group of oculoplastic surgeons and ophthalmologists, and UCSF is a preeminent medical institution with endless opportunities for multidisciplinary research, teaching, and leadership. I'm also excited to establish oculoplastics at the UCSF eye clinic in Berkeley.

Q What did you enjoy about recently sky diving for the first time?

A Flying over Interlaken, Switzerland, in a helicopter, then 45 seconds of free fall followed by floating down to an absolutely stunning view, was one of the most amazing experiences. As soon as I landed, I wanted to do it again. 🪂

Recent Gifts for UCSF Ophthalmology

Thank you for generous gifts and new pledges for the UCSF Department of Ophthalmology and the Francis I. Proctor Foundation between June 14, 2019, and November 20, 2019.

Founder's Circle (\$10,000,000+)

Wayne and Gladys Valley Foundation

James H. Smith, PhD, and Mary P. Smith
Daniel J. Ulyot, MD

Honored Patrons (\$250,000+)

Claire Giannini Fund
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John Pritzker Family Fund
Research to Prevent Blindness

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and Mitchell G. St. Peter
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Mrs. Camele Wanat
Estate of Ronald P. Winiker

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BrightFocus Foundation
Françoise G. Fleishhacker
The Peierls Foundation, Inc.
Chuck Robel

Entrepreneurs (\$50,000+)

Gerson Bakar Foundation
Paula and Stephen Smith
The Tumori Foundation

Investors (\$25,000+)

Yean and Pongsri Lu
Optical Express

Director's Council (\$10,000+)

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Sheila J. Leach
Stephanie LeGras
Farideh L. B. Mehran
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and Joe F. Melcher III
Richard and Susan Olness
J. Michael Patterson
Michael and Susan Schwartz
Timothy G. Sheehan
Bob and Naomi Stamper
Masako Vacheron

Luminaries (\$5,000+)

Hal Dawson and Mary McVey
Margaret R. Duflock
Leah and Bernard Freiwald
Christie W. Hastings
The JEC Foundation
The Outrageous Foundation
Cynthia Schuman and Daniel Banks

Class of 2022

Meet the New Residents



- 1 Tiffany Chen, MD**
MD Stanford University
Internship UCSF Surgery
College Massachusetts
Institute of Technology
Birthplace La Habra, CA
- 2 Benyam Kinde, MD, PhD**
MD Harvard University
PhD Harvard University
Internship UCSF Surgery
College Univ. of Maryland, Baltimore
Birthplace Redlands, CA
- 3 Rolake Alabi, MD, PhD**
MD Cornell University
PhD Cornell University
Internship UCSF Surgery
College Yale University
Birthplace Lagos, Nigeria
- 4 Georgia Kamboj, MBBS, PhD**
MBBS Flinders University
PhD Flinders University
Internship UCSF Surgery
College University of South Australia
Birthplace Adelaide, Australia
- 5 Stephanie Chen, MD**
MD Stanford University
Internship UCSF Surgery
College Massachusetts Institute
of Technology
Birthplace La Habra, CA



Hearst Fellow

Hearst Fellow Dina Tadros, MD, PhD, is contributing to the worldwide effort to prevent blindness.

Dr. Tadros loves superheroes, and she is a hero to young patients and their families. Her superpower is helping children see by repairing damage from ocular trauma and replacing clouded lenses with clear ones. She provides surgical treatment of infant cataracts caused by trauma or recessive genes.

Quest for Clearer Insight

As the 2019 George and Rosalie Hearst Fellow in Ophthalmology, Dr. Tadros learns about leading-edge technologies and pediatric applications of the latest vision research. Dr. Tadros relates, "I love this research and how well it relates to my day-to-day practice."

Alejandra de Alba Campomanes, MD, MPH, and Anthony Moore, MD, FMedSci, mentor Dr. Tadros. With their guidance, she refines her clinical skills and conducts genetic research on potentially blinding eye disorders and ocular trauma.

Combating Vision Loss

Dr. de Alba and the Hearst fellow investigate how frequently children wear their glasses, and how to best determine the optimal corrective power of artificial lenses for very young cataract patients.

Alongside Dr. Moore, Dr. Tadros uses advanced genetic testing to diagnose pediatric patients. "The tests can link eye disorders with unidentified congenital defects, helping patients and families access timely treatment," she says.

Changing Patients' Lives

"We can often treat an eye condition with surgery and make a huge impact on someone's life very quickly," says Dr. Tadros. After her fellowship, Dr. Tadros will return to her faculty position at Tanta University, Egypt, prepared to train others. 👁️

The George and Rosalie Hearst Fellowship in Ophthalmology, funded by the William Randolph Hearst Foundations, supports young vision scientists to investigate ways to improve sight.

HOW TO REACH US

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94143-0944
proctor.ucsf.edu

Comprehensive Eye Center
415.353.2800
Routine eye care,
acute care,
eye disease referrals

Eyeglasses and Contact Lenses
415.476.3100

Cataract Care
415.353.2800
415.353.8200

Cornea Care
415.514.8200

Glaucoma Care
415.514.6920

Neuro-Ophthalmology
415.476.7176

Ocular Oncology Care
415.514.8722

Ocular Plastic Surgery
415.353.2800

Pediatric Ophthalmology
415.353.2560

Proctor Medical Group
415.476.1442

Retinal Care
415.353.2800

Vision Correction Surgery Center
415.353.2020
Individualized surgery,
including LASIK and PRK

Contact

Celebrating Research to Prevent Blindness

Research to Prevent Blindness (RPB) is celebrating 30 years of its highly impactful Career Development Awards, which jump-start research early in the careers of outstanding scientists.

Sixteen UCSF vision scientists have received Career Development Awards over the years, advancing new knowledge, insights, and solutions — building blocks in the future of vision. UCSF vision research continues to benefit from these and other RPB awards, including three this year.

Nurturing Novel Approaches
Thuy Doan, MD, PhD, applied her 2016 RPB Career Development Award to help launch pioneering genomic studies of the ocular micro-environment (biome) in search of pathogens underlying uveitis inflammations.



Dr. Doan’s international work at the Proctor Foundation involves investigation of the intestinal microbiome for an antibiotics study of 190,000 children in sub-Saharan Africa. Dr. Doan is lead author of a new Proctor publication in *Nature Medicine*,* which posits that reductions in two diarrhea-related bacteria may be a factor in higher child survival rates.


“Those of us who study... child survival in sub-Saharan Africa haven’t seen well-done trials showing such a

striking mortality benefit in a really long time, so it’s very exciting,” says Patricia Pavlinac, MD, a University of Washington epidemiologist.

Preventing AMD
Retinal cell biologist **Aparna Lakkaraju, PhD**, won RPB’s 2019 Catalyst Award for Innovative Approaches to Age-Related Macular Degeneration (AMD). Her team uses innovative microscopy, genome editing, and stem cell technologies to pinpoint genetic and cellular mechanisms responsible for initiating AMD, and identify promising therapies to target the earliest disease stages to preserve central vision. The research builds on earlier successes made possible by her Career Development Award in 2010.



Understanding Epidemics
RPB collaborates with the American Academy of Ophthalmology to grant awards for big data research. **Michael Deiner, PhD; Thomas Lietman, MD; and Travis Porco, PhD**, won this 2019 award to use the exceptional IRIS Registry to study infectious eye epidemics in the United States.

Strategic Flexibility
The Department of Ophthalmology was awarded an RPB unrestricted grant this year as well. The five-year grant extends decades of institutional support from the foundation. “We’re extremely grateful,” says Department Chair **Stephen D. McLeod, MD**. “These awards allow us to build high-potential research from the ground up.” 

***T Doan**, A Hinterwirth, L Worden, AM Arzika, R Maliki, A Abdou, S Kane, L Zhong, SL Cummings, S Sakar, C Chen, C Cook, E Lebas, ED Chow, I Nachamkin, **TC Porco, JD Keenan, TM Lietman**. “Gut microbiome alteration in MORDOR I: a community-randomized trial of mass azithromycin distribution.” *Nature Medicine*. 2019 Aug 12.

In Memoriam



Titan of UCSF Ophthalmology, William Fletcher Hoyt, MD

Dr. Bill Hoyt was a pioneer in neuro-ophthalmology. He joined UCSF Ophthalmology in 1958 and continued his research even after retiring from clinical practice in 2005. The book he authored with his mentor, Frank Walsh, MD, revolutionized the field. The three-volume text identified numerous disorders for the first time, and it made the field accessible to young physicians.

Dr. Hoyt became a teacher of teachers, training 71 fellows, 48 of whom became professors of neuro-ophthalmology, scattered worldwide. He liked to work at a table with his fellows, where discussion came easily. They became his family, and he took a father's pride in their enormous accomplishments.

In 1997, colleagues, patients, and former students established an endowment for the William F. Hoyt Chair in Ophthalmology, and the North American Neuro-Ophthalmology Society established a lectureship in his name in 2001. The Hoyt Chair is currently held by **Jonathan Horton, MD, PhD**, who was one of Dr. Hoyt's fellows. Chosen UCSF Alumnus of the Year in 2008, Dr. Hoyt's honors also include an Honorary Doctorate of Medicine from Sweden's Karolinska Institute, home to the Nobel Prize committee.

Unbeknownst to many, Dr. Hoyt was an accomplished ice skater and a nationally ranked ice dancer during college. He remained an avid skier for many years. 👁

Vitreoretinal Surgeon, Walter Henry Stern, MD

Dr. Walter Stern served for 17 years as a vitreoretinal specialist in the UCSF Department of Ophthalmology, including 15 years as director of the vitreoretinal service. In addition to teaching medical students, residents, and retina fellows, Dr. Stern worked hard to help practicing ophthalmologists and retina surgeons hone their skills. He had a true love of helping patients with complex retinal conditions. His family requests that those wishing to honor Dr. Stern's memory make donations to That Man May See. 👁

Towards 2020: A Brighter Future Awaits!

Honor physicians and researchers with a gift to That Man May See. Your support means the world to us and to UCSF's internationally recognized faculty.

Please make a gift to support the new building, advance research, and inspire training of next-generation leaders.

thatmanmaysee.org/donate / 415.476.4016

*When you make a gift to That Man May See,
you provide hope, that one day, all may see.*

VISION is produced by **That Man May See**, 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, educational opportunities for residents and fellows, and community service.

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Retinal
Investigations



Welcome
New Faculty



That Man May See
Annual Report

Restore the Retina, Restore Sight

Retinal transplantation will one day allow ophthalmologists to restore sight. To accelerate development of regenerative treatments for blindness, the National Eye Institute has provided funds to five multidisciplinary teams nationwide.

Retinal specialist **Jacque Duncan, MD**, leads UCSF research for the initiative, joined by neurobiologist and bio-engineer **Deepak Lamba, MD, PhD**, and leading scientists at the University of Wisconsin.

To better understand cellular behavior before, during, and after experimental retinal transplantations, Dr. Lamba's team will use stem cells to develop retinal tissue with many, many cone cells. These are the light-sensitive cells that allow humans to recognize faces and see fine detail in daytime.

"Dr. Duncan's expertise in patient care, disease progression, and advanced imaging techniques will guide us to look for cellular changes that she has previously recorded from her patients' retinal cells," says Dr. Lamba.

The team's findings will move successful retinal cell transplantations closer to a transformative reality.



Dr. Lamba's team collaborates with clinical researcher Dr. Duncan to advance transplantation of laboratory-grown retinal cells to restore sight.

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That Man May See Annual Report

2018-2019



Ophthalmology at UCSF ranks:

- #1 in Northern California
- Among the top 10 nationwide

US News & World Report

Dear Friends of That Man May See,

This is a most exciting time as the year 2020 comes into focus.

A bright future awaits us, beginning with the move of the Department of Ophthalmology and Proctor Foundation into our new Wayne and Gladys Valley Center for Vision at Mission Bay.

We are proud to summarize the achievements of That Man May See this past year in our Annual Report.

Thank you for supporting our work to raise funds for Ophthalmology at UCSF. Now in the final stages of construction, the new building is a tangible example of That Man May See's passion and commitment to our cause.

The outstanding national ranking of UCSF Ophthalmology exemplifies why we feel especially proud of the work we do. Your gifts support excellence in patient care, research, and teaching at one of the finest academic eye institutes in the world.

Thank you for your partnership in our hope that, one day, all may see.

Sincerely,

John de Benedetti
Chair of the Board
That Man May See

In Gratitude for Generous Gifts

Thank you for generous gifts and new pledges for the UCSF Department of Ophthalmology and the Francis I. Proctor Foundation made during the past fiscal year, July 1, 2018, to June 30, 2019. Gifts at every level make a difference.

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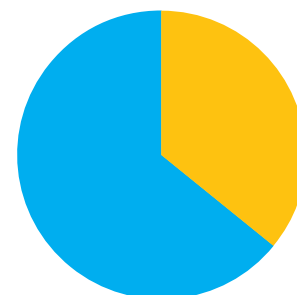
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That Man May See Generated Funds

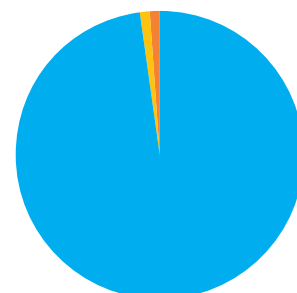
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	Direct to TMMS	Via Other UCSF Entities*	Total	%
Donations from Individuals, Including bequests and trusts	\$7,437,321	\$1,005,075	\$8,442,396	28%
Donations from Corporations and Foundations	\$1,034,735	\$21,055,000	\$22,089,735	72%
Earnings on Deposited Funds**	\$90,787		\$90,787	0%
TOTAL REVENUE	\$8,562,843	\$22,060,075	\$30,622,918	100%



APPLICATION OF FUNDS

	Actual	%
Research, Education, Patient Care, and Community Services	\$29,721,658	97%
Fundraising	\$565,771	2%
Management and Administration	\$335,489	1%
TOTAL EXPENSES	\$30,622,918	100%



*Board of Regents, UCSF Foundation and Contracts & Grants

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