FROM THE CHAIR’S DESK

Those of us who practice clinical ophthalmology are made aware day after day of the huge impact that vision impairment has on the lives of our patients. When I made the decision as a medical student to pursue ophthalmology as a career, there was at least a moment of hesitation about going into a field in which I would not be saving lives. How wrong I was in that moment of hesitation. I now feel as though my colleagues and I save lives every day—very occasionally literally and often more figuratively in terms of quality of life. As ophthalmologists, we have the opportunity to elevate the quality of our patients’ lives, to give them independence and livelihood, and to grant hope for a better future.

Here at the Eye Center, our faculty, residents, fellows, and staff are engaged continually in this visual restoration of life. Whether it is dealing with infection on the surface of the eye or conditions affecting the visual centers of the brain, the Eye Center engages disorders of the visual system from cornea to cortex.

In this issue of enVision, we look at “sports ophthalmology” and the crucial role that vision plays in the lives and health of athletes at all levels. This is but one of the many areas of vision that play a role in the daily programmatic activities of the Eye Center. While eye disease in children and the elderly are a significant focus for us and, indeed, for all of ophthalmology, there has been less exploration of the visual needs of the young and healthy—and specifically of athletes. Yet vision can be crucial to athletic achievement, and the visual system may also be threatened by the hazards of athletics. And so, we are excited about the development of a Sports Vision Program here at the UC Davis Eye Center, yet another innovative activity in vision care at our institution.

Mark Mannis, M.D., FACS
Professor and Chair
Department of Ophthalmology & Vision Science
UC Davis Eye Center
enVISION
is published by the
UC Davis Eye Center. For
more information about
ophthalmology services
and vision research at
UC Davis, visit our Web site at:
www.ucdmc.ucdavis.edu/eyecenter
or call (916) 734-6435.

Managing Editor
Mark J. Mannis, M.D.

Contributing Editors
Kim Angelo
Barbara Holdreede
Cameron Blount
Steven A. Osborne

Contributors
Holland Adams-Lattin
Cameron Blount
Amy Chiuu
Paul FitzGerald, Ph.D.
Angel Hanson
Nora Moore Jimenez
S. Khizer Khaderi, M.D., M.P.H.
Mark J. Mannis, M.D.
Steven A. Osborne
John Werner, Ph.D.

Production Manager
Holland Adams-Lattin

Photography
Dennis Cortes, M.D.
Bhupinder Dhillon
Engadget.com
Emi Manning
Raju Poddar, Ph.D.
Ellen Redenbo
Vision Science and Advanced
Retinal Imaging Laboratory
Robert Zawadzki, Ph.D.

Design/Layout
Steven A. Osborne

DIRECTORY

1
UC Davis Eye Center
4860 Y St., Suite 2400
Sacramento, CA 95817
(916) 734-6602

2
UC Davis Eye Center
Optical Shop
4860 Y St., Suite 2013
Sacramento, CA 95817
(916) 734-6300

CONTENTS

APPOINTMENTS

To Schedule Patient Appointments:
(916) 734-6602 (Patients - All Sites)
(916) 734-6892 (FAX)
(916) 734-6650 (Lasik)
Tackling the Issue of Traumatic Brain Injury

Rise Grant Awarded

50,000 Patients and growing

AAO Chicago

OUR VISION

Our vision is to be the world’s transformational leader in collaborative vision research and in the development of cures for blinding eye disease from cornea to cortex.

OUR MISSION

We will realize our vision through pioneering collaborative vision research, providing state-of-the-art, world-class eye care, and training superbly prepared ophthalmologists and vision scientists.
TACKLING THE ISSUE OF TRAUMATIC BRAIN INJURY

by Khizer Khaderi, MD, MPH
Why would a professional football player, who has reached the pinnacle of his career by winning a Super Bowl and is a future Hall of Famer, end his life with a self-inflicted wound to the chest at the age of forty-three years old?

**THE ANSWER? TRAUMATIC BRAIN INJURY.**

The player mentioned above is Junior Seau, a retired linebacker, who had his brain donated to and studied by the National Institutes of Health. The study confirmed he suffered from chronic traumatic encephalopathy, a degenerative disease process typically diagnosed post-mortem, following a history of multiple concussions and/or other forms of traumatic brain injury.

**“HOW WAS THAT HUMANLY POSSIBLE?”** is a common phrase uttered by sportscasters, and describes the awe, excitement and entertainment aspects of watching sports. Today’s athletes appear as invincible as the superheroes we grew up reading about in comic books. An NFL linebacker exerts up to 1000 lbs of force when hitting an opposing player. That is 200 lbs more force than the battering ram used by policemen to break open doors. Junior Seau had been involved in at least 545 tackles over a twenty-year career, which is equivalent to 545,000 lbs of force or being hit by a Boeing 747 aircraft.

What type of toll do all those hits take on the brain? Traumatic brain injury (TBI) is defined by the National Institutes of Health as a form of acquired brain injury, which occurs when a sudden trauma causes damage to the brain. TBI can result when the head suddenly and violently hits an object, or when an object pierces the skull and enters brain tissue. Symptoms of a TBI can be mild, moderate, or severe, depending on the extent of the damage to the brain.

TBI can affect the communication between the eye and brain. Affects on the eyes range from mild symptoms (blurred vision or tired eyes), to moderate/severe symptoms including dilation of one or both pupils. Damage in communication between the eye and brain results in missing parts of vision in one or both eyes (visual field abnormalities), and/or inability to keep images as one (double vision and nystagmus). All of these problems can make routine activities such as reading or driving very difficult or impossible to do.

With today’s athletes being bigger, faster and stronger, there is a growing trend of traumatic brain injury, especially among those who participate in impact sports like football, hockey and boxing/mixed martial arts. Furthermore, TBI is not limited to professional athletes, as it is becoming more commonplace at the college, high school, and junior levels of play. With the increasing prevalence of these brain injuries, what is being done to diagnose the early symptoms of brain injury to avoid the fate of Junior Seau and other fallen sports heroes?

Currently, researchers are using the advent of technologies, such as the iPad, to conduct tests of cognitive thinking. At the forefront is the IMPACT and King-Devick tests, both of which involve a series of tasks to test visual and verbal attention. Most recently, Reebok has teamed up with MC10 to develop a sensor-embedded cap that can be worn under
a helmet, which measures the impact of a hit to the head. The cap is designed to let an athlete know when to seek medical treatment or rest before resuming play. Although these technologies show promise, they each have their pros and cons. None of them provide a complete solution of a reliable automated system for both diagnosing and monitoring athletes for TBI. Does such a system exist?

The answer is yes and it's at UC Davis Eye Center, at the Sports Vision Lab, under the directorship of Khizer Khaderi, MD, MPH.

Dr. Khaderi and colleagues have devised a system involving the measurement of eye movements, pupillary response, and brain waves. Having spent almost a decade in sports vision research and technology, Dr. Khaderi’s interest in traumatic brain injury and its affect on the visual system came about through reading an ESPN article on the subject. “The article really brought to light the need of having an inexpensive and accurate method of measuring concussions, the earliest form of traumatic brain injury,” says Dr. Khaderi. “After a review of all the major works on current TBI research, I noticed two trends — first, researchers focused on only one area to measure for diagnosis, such as only cognition, or only eye tracking. Secondly, there was no system for monitoring and triaging athletes affected by traumatic brain injury, which allows for assessment of whether they are ready to safely go back in the game.”

“Our goal is to provide an inexpensive and accurate system to measure three common signs of brain injury and to triage the injury based on the results of the measurements. The technology is there to do so, our system is in place and we are excited for our upcoming pilot study. Football, hockey and other impact sports aren’t going away, and we need to meet the demands of our athletes, because the same measures we use to diagnose and treat this area, can be used for a broader audience of people affected by traumatic brain injury.”
“After a review of all the major works on current TBI research, I noticed two trends – first, researchers focused on only one area to measure for diagnosis, such as only cognition, or only eye tracking. Secondly, there was no system for monitoring and triaging athletes affected by traumatic brain injury, which allows for assessment of whether they are ready to safely go back in the game.”
WE UNDERSTAND THE IMPACT THAT BUSINESSES HAVE ON THE ENVIRONMENT. JOIN US IN IMPLEMENTING SUSTAINABLE BUSINESS PRACTICES THAT ENSURE OUR IMPRINT IS REDUCED TODAY AND IN THE FUTURE. SIGN UP TO RECEIVE YOUR FREE ELECTRONIC ISSUE OF ENVISION MAGAZINE TODAY.

TO RECEIVE YOUR FREE ELECTRONIC COPY OF ENVISION MAGAZINE AND OTHER INFORMATIONAL PIECES. PLEASE E-MAIL US AT ENVISIONEYE@UCDMC.UCDAVIS.EDU ENTITLED GO GREEN
OPTICAL SHOP
NOW OPEN
77 Cadillac Dr. | Sacramento, CA 95825 | (916) 734-6644
ADVANCED EYE IMAGING MOVES ‘FORWARD’ AT UC DAVIS

The VSRI (Vision Science and Advanced Retinal Imaging Laboratory) located in the UC Davis Eye Center has been supported by the National Eye Institute with a 10-year, $10-million, research grant to develop imaging methods that will permit individual cells to be visualized in the living eye. Most of the work for this project has focused on the back of the eye to help patients with retinal diseases such as age-related macular degeneration.

Now, a new effort in the imaging laboratory is focused on the front of the eye, from the cornea to the lens. The engineering effort is led by Drs. Raju Poddar and Robert Zawadzki, in collaboration with Dr. Dennis Cortes, a cornea specialist. The new instrument uses the principle of optical coherence tomography in which a harmless beam of light is scanned across the eye and the faint reflections from each layer are captured much like echoes are recorded with ultrasound. This principle is exploited in commercial instruments, but at much slower speeds. This is important because the eye is always moving somewhat (even when you try to hold it steady) and eye motion causes blur in the image just like a jiggling camera produces blurry pictures. The new instrument, called swept-source OCT, is about five times faster than standard commercial devices. In addition, the Eye Center’s custom swept-source instrument has two different modes of image capture, one in which the entire depth of the front of the eye is imaged (not possible with current commercial instruments) and another that provides a zoomed-in view to produce very detailed images of a chosen area. Finally, the new swept-source device is fast enough to repeat scans across the whole eye in a few seconds so that multiple images may be obtained and combined for a three-dimensional view of the retina. This requires software developed by a Ph.D. student in the UC Davis Computer Science Department, Arlie Capps.

Images of the front portion of the eye in 3D are already revealing details of diseased corneas and implanted corneal protheses that have not been imaged this clearly or completely with any other instrument.
THE CENTER FOR VISUAL SCIENCES HOSTS
THIRD ANNUAL VISION RESEARCH SYMPOSIUM

Each year, the Center for Visual Sciences hosts a one-day symposium dedicated to basic and translational science in vision at UC Davis. The Center for Visual Sciences, under the able leadership of Paul FitzGerald, PhD, is a virtual center comprised of 50 UC Davis faculty from 14 campus departments and the Eye Center. This year's symposium was held January 4, 2013 and featured speakers from the UC Davis Campus.

In recognition of great contributions of former Eye Center Chair, John Keltner, to the research programs in vision at UCD, the Eye Center and the Center for Visual Sciences established the annual John L. Keltner Lectureship in Vision Science. The first annual Keltner Lecturer was Ed Callaway, PhD, Professor and Audrey Geisel Chair in Biomedical Science at the Salk Institute, whose topic was "Of Mice and Monkeys: A Journey into the Visual System".

The collective power of the programs of vision science at UCD is attested to by the fact that we are ranked 8th in the nation in grant funding for vision science. The annual symposium is a palpable testament to the vitality of the vision science programs here at UC Davis. More information on the Center for Visual Sciences and the annual symposium can be found at www.cvs.ucdavis.edu.

Top to bottom
1 Dr. Mark Mannis presenting the John L. Keltner Lectureship award to Ed Callaway, PhD
2 Dr. and Mrs. John Keltner along with members of the UC Davis Community
3 Vision Science Community listen to the Keltner Lectureship
The Eye Center has had a long tradition of bringing talent from other parts of the world to learn from and collaborate with our faculty. For the last year, Dr. Dennis Cortes from Santiago, Chile has become a member of the Cornea Service and Imaging Center teams here in the department. Dr. Cortes trained in Chile and practices there at the Pontificia Universidad Católica de Chile and Dr. Sótero del Río Hospital, where he trained as a resident. He has had a particular interest and talent in imaging techniques of the anterior segment of the eye and came to UC Davis bringing his considerable experience to our service. Employing high definition ocular coherence tomography techniques, combined with new generation confocal microscopy, Dr. Cortes has greatly enhanced our non-invasive diagnostic capabilities.

Dennis came to Davis with his wife, Claudia, and three children, Alonso (age 15), Carla (age 13) and Vicente (age 9). He has used his time here at UC Davis to expand his own capabilities as an imaging expert and to assist the anterior segment surgeons in both the clinic and the laboratory with diagnostic images. Dennis has collaborated with Drs. Chris Murphy, Jennifer Li, and Mark Mannis in studies of a new keratoprosthesis that is being developed and has also begun working in our optics laboratory with Dr. Jack Werner on the development of an optical imaging system that will provide even more detail of the eye’s anterior segment.

Dr. Cortes has already published several papers during his time at Davis and is embarking upon the production of a book on anterior segment imaging. Later this year, he will return to Santiago to continue his practice and clinical research in Chile, bringing home his experiences at the Eye Center.
Three Center for Visual Sciences faculty—Ed Pugh, John Werner, and Paul FitzGerald—were awarded a UC Davis RISE research grant for $866,000 to develop an instrument that permits the identification of single cells in the retinas of living mice. This instrument would create, for the first time, the ability for researchers to follow the fate of individual cells over the lifetime of the mouse. The device will enable a wide range of studies which previously could not be conducted in living animals. Many different types of processes can be studied. Some examples include: 1) following individual cells during progression of diseases such as glaucoma, as well as during experimental treatments designed to prevent or retard the progression of disease; 2) charting the effectiveness of gene-therapy to correct inherited retinal diseases, or therapies designed to treat diseases such as macular degeneration; 3) determining whether injected stem cells implant at the right location, and then undergo maturation into functioning retinal cells. For more information, contact Paul FitzGerald at pgfitzgerald@ucdavis.edu
Sacramento Region

Vision Support Groups

- **Organization of Macular Friends**
  Meets 1st Thursday of each month for luncheon speaker
  PO Box 22492
  Sacramento, CA 95822
  Voice Mail (916) 492-5656

- **Outa Sight Group**
  Community Senior Center
  2001 East Street
  Woodland, CA 95695
  (530) 662-0535

- **Society For The Blind**
  Shari Roeseler, CEO
  1238 S Street
  Sacramento, CA 95811
  916-452-8271

- **Covell Gardens Retirement Community**
  1111 Alvarado Avenue
  Davis, CA 95616
  (530) 753-1522
  Arturolg@aol.com

- **Davis Senior Center**
  Jennifer Frazier
  646 A Street
  Davis, CA 95616
  (530) 753-7694
  jenniferlynnfrazier@gmail.com

- **El Dorado Center For the Visually Impaired**
  4600 Farnsworth Lane
  El Dorado, CA 95623
  (530) 626-6715

- **Earle Baum Center**
  4539 Occidental Road
  Santa Rosa, CA 95401
  (707) 523-3222
  ebc@earlebaum.org

- **Low Vision Support Group**
  1300 Jefferson Street, #114
  Napa, CA 94559
  (707) 696-5706

- **New Outlook Support Group**
  3571 Sunview Road
  Paradise, CA 95969
  (530) 514-8793

- **Eye Contact**
  For the residents of Sun City Lincoln Hills
  (916) 645-5516
  Chelsea@starstream.net

- **Insight Roseville**
  Maidu Senior Center
  1550 Maidu Drive
  Roseville, CA 95661
  (916) 782-2406

- **Sunrise Macular Degeneration Association**
  PO Box 491
  Citrus Heights, CA 95611
  (916) 725-5885

- **Center for Visually Impaired Adults**
  Placer County
  David Brown
  4122 Meadow Park Court
  Auburn, CA 95602
  (530) 637-4592

- **Lincoln Glaucoma Support Group**
  at Sun City Lincoln Hills
  Bonnie Dale
  Orchard Creek Lodge
  Meets 2nd Wednesday of each month at 4:00 pm
  Lincoln, CA 95648
  (916) 543-2133
On March 12, 2012, British researchers calculated the planet Earth welcomed a truly unique individual: the 7 billionth human. What is not quite as well-known (although equally important amongst this readership), is not long thereafter, on June 26, 2012, UC Davis Eye Center administrative researchers calculated a milestone of its own: its 50,000th patient. While not quite as momentous as world population expansion, achieving 50,000 visits in a single fiscal year is an accomplishment the Eye Center had never before achieved.

Much like the world’s population trend, the UC Davis Eye Center’s visit growth is best characterized by periods of slow growth accentuated by years of unprecedented expansion. A simple bar graph outlining the prior ten years of data illustrates this point.

Two rapid areas of growth occurred between 2004 to 2008 and 2009 to 2012. While economic expansion and contraction certainly played a factor, so too did the addition of new clinical space. In 2004, the Eye Center added 8,500 SF and 14 new exam rooms at our Cadillac Drive clinic. In 2009, growth was spurred by a combination of new faculty establishing
thriving practices and the addition of the electronic medical record prompting greater clinic efficiency. More recently, the Eye Center added almost 2,700 additional square feet of clinical space at Cadillac along with a second optical shop to serve the needs of our Cadillac Drive patients. And, finally, in December of 2012, the opening of the Student Health Clinic on the Davis campus will surely continue the Eye Center’s upward momentum.

At a recent staff appreciation event, Dr. Mannis opened the program by congratulating the staff for achieving such a unique milestone. It is a validation of our employees’ commitment to the overall departmental mission of high-quality clinical care, teaching, research, and service to the community. It is also a testament to the Eye Center’s vast network of alumni and grateful patients who play no small part in furthering our ability to meet such an overwhelming demand for our services. We couldn’t have done it without you!
Despite the cold and rain, we had a strong turn out for the 2012 AAO Alumni Reception in Chicago. The event was held at the Hotel Allegro on Sunday, November 11, 2012. The event was a great opportunity for Alumni to come together and visit with faculty, staff and current residents and fellows.

The event was attended by Alumni from the U.S. and South America. With wonderful wine from California and delicious food, all had a memorable evening.

Page 20
- David Payne, M.D. and Mark Mannis, M.D.
- Saadia Rashid, M.D., Karishma Chandra, Angel Hanson, and Amy Chiuu

Page 21
- Michele Lim, M.D. and Saadia Rashid, M.D.
- Kim Winges M.D., Jennifer Rizzo M.D. and Linda Margulies, M.D.
- James Brandt, M.D. and Angel Hanson
- Alena Reznik, M.D. and Jacob Reznik, M.D.
CONTINUED

Page 22
1. Ellen Redenbo and Karishma Chandra
2. Nancy Keltner and John Keltner M.D.
3. Nandini Gandhi, M.D. and Mitul Vakharla, M.D.
4. Fabo Ramirez, M.D., Mark Mannis, M.D. and Linda Lopez

Page 23
1. Angel Hanson, Mark Greiner, M.D. and Jayme Forner
2. James Ruben, M.D. and Kim Winges, M.D.
3. Kathy Howard and Sam Ramos
4. Vahid Feiz, M.D., Lani Gurria-Quintana, M.D., Frank Garcia-Ferrer, M.D., and Enrique Graue, M.D.

Page 24
1. Yao Liu, M.D. and Allan Hunter, M.D.
2. Samuel Lee, M.D., Annie Baik, M.D. and Eric Chin, M.D.
3. Reception Lobby
4. Mark Mannis, M.D. and Erich Groos, M.D.

Page 25
1. James Ruben, M.D., and Chris Johnson, Ph.D.
2. John Keltner, M.D. and Khizer Khaderi, M.D., M.P.H.

We hope to see you in New Orleans in November this year!
Senior
DIRECTOR OF DEVELOPMENT FOR VISION AND NEUROSCIENCES

Nora Moore Jimenez joins the UC Davis Eye Center as the Senior Director of Development for Vision and Neurosciences.

At the UC Davis Health System, Nora supported the Center for Pain Medicine and Vascular Center and she was the inaugural Director of Development for the Office of Research at the Davis campus.

Nora joined UC Davis in 2001 as Director of the UC Davis CONNECT program which helped start-up companies hone their business plans and identify funding sources and she came to UC Davis with more than 20 years experience as an entrepreneurial executive with Valley Media of Woodland and Sony Music. She holds a Bachelor of Science degree in finance from the University of Central Florida.

Nora believes that the UC Davis Eye Center has the ability to realize their vision through philanthropy in a very meaningful way and she looks forward to being part of this dedicated and very capable team.
E. Antoinette McLean joins UC Davis Health System and the Eye Center as the Director of Development for Vision and Neurosciences.

A native of the Bay Area, Antoinette previously held a position as the Associate Director of Individual Giving for the Computer History Museum in Mountain View, California.

With over eight years of professional and volunteer fundraising experience, Antoinette looks forward to helping the talented faculty and dedicated staff of the Eye Center realize their dreams and the Department’s potential.

FOR MORE INFORMATION ABOUT BECOMING A DONOR PLEASE CONTACT

Nora Moore Jimenez
Senior Director of Development
UC Davis Eye Center
Vision and Neurosciences
(916) 734-4089
nmoorejimenez@ucdavis.edu

E. Antoinette McLean
Director of Development
Dermatology, Vision and Neurosciences
UC Davis Health System
Health Sciences Development
(916) 734-9714
evangelita.mclean@ucdm.ucdavis.edu

Holland Adams-Lattin
Development Analyst
UC Davis Eye Center
(916) 734-6435
holland.adams@ucdm.ucdavis.edu
Donor Honor Roll

Visionary Platinum ($250,000+)
- Lanie Albrecht Foundation

Visionary Gold ($100,000+)
- Research to Prevent Blindness

Visionary Bronze ($25,000+)
- Mrs. Phyllis Demorest
  (In memory of Byron Demorest, M.D.)
- Jerome and Helen Suran

Luminary ($10,000+)
- Ted and Melza Barr

Senior Counselor ($5,000+)
- Quong and Jennie Doo
- Dr. and Mrs. Harold Jonsson
- Barbara R. and James A. Monroe Family Fund
- Ernest Tschannen

Counselor ($2,500+)
- Judge and Mrs. Robert Dale
- Gustavo and Carol Foscari
- John and Nancy Keltner
- Michele Lim, M.D. and Christopher Sanders
- Mark and Judy Mannis
- David R. Motes and Charlene L. Woodward
- Dr. and Mrs. Francis Sousa

Chairman’s Council Member ($1,000+)
- Thomas Barnes, O.D.
- Mr. and Mrs. Wayne Bartholomew
- Charles Bradbrook, Jr., M.D. and Shirley Bradbrook
- David Chaffin, M.D.
- Gene and Phyllis Christopher
- Patricia Diepenbrock
- Barbara Fingerut
- Ronald Foltz, M.D. and Marcia Foltz
- Jill Frechette-Walker
- Thomas and Phyllis Hammer
- Andrew C. Hemphill
- Dixie Henderson
- Dr. and Mrs. Ijaz Jamali
- Manraj Johl
- Dr. and Mrs. Ronald A. Kalayta
- Ann L. Kerr
- Ann Kohl
  (In memory of J. William Kohl, M.D.)
- Clement and Melinda Kong
  (In honor of Ivan Schwab, M.D.)
- Hank and Lily Lin
- James A. and Lyn Livingstone
- Gerry and Susan Meyers
- Drs. Christopher and Joanne Murphy
- Walter Onwiler
- Organization of Macular Friends
- Susanna S. Park, M.D., Ph.D.
- Dr. and Mrs. Jonathan Perlman
- Dr. and Mrs. Thomas Purcell II
- Dr. and Mrs. Gregory Rabin
  (In honor of Virginia H. Rabin)
- Ivan and Nora Schwab
- Dr. Hissam and Mrs. Mary Soufi
- Kathleen A. Taylor
  (In memory of Norman Taylor)
- Lois and David Warren
  (In honor of Ivan Schwab, M.D.)
- Richard A. Weise, M.D.
- Sheri Welles
- John S. Werner, Ph.D.

Gold Circle ($500+)
- Matthew and Susan Ansbro
- Richard W. and Wilma R. Bower
- Dr. and Mrs. Donald Brown
- Jim and Crystal Curry
- Margaret De Young, M.D.
- Tino Flores

Silver Circle ($100+)
- Grace Alvarez
- David and Carolyn Anderson
- Kimberly Angelo
- Henry Baer Jr. and Arlene Baer
- Ponniah Balasingam
- Barbara and Arthur Baldwin
- Virginia Bane
- Paul Barkin, D.D.S. and Margaret Barkin
- Carol Beatty, M.D.
- Natalia Benkunsky
- Marcia Blount
- Frederick and Julie Bohmfalk
- Franklin and Ursula Boyden
- Wanda Brown
- Anne Cain
- Kevin Chang, D.D.S. and Brooke Chang, O.D.
- Vinicius Ghanem, M.D.
- Emil and Terrie Gross
- Robert Hales, M.D. and Dianne Halas
  (In honor of Mark Mannis, M.D.)
- Brett Keiser
- Thomas Kidwell, M.D. and Rebecca Kidwell
- Dr. and Mrs. Van Krelis
- Joe and Jan Lawrence
- Jennifer Li, M.D.
- Grace and Thomas Licursi
- Allan McKittrick, Ph.D.
- and Susan McKittrick, Ph.D.
- Frank and Elizabeth Meyer
  (In honor of John Keltner, M.D.)
- Susan Scarratt and Stephen Stepler
- Richard Seader
- Ronald Tamura, M.D. and Colleen Tamura
- Dennis Vance
- Stephen H. Wetzel
- Rose Mary Williams
- Doris Winter and Daniel Walters
Curtis and Amy Chiuu
Thomas and Susan Cuquet
Kenneth and Roberta Dacus
Harvey and Rochelle Davis
Leonila de Guzman
Jonalyn Dela Cruz
Ramon Dela Guardia
and Maria Niederberger
Dela Guardia
Mr. and Mrs. James Deak
Diane Diep
Alan and Catherine Duncan
Carl Ellers, M.D. and
Karen Ellers
Harvey and Colleen Firchau
Howard and Carol Frank
Jeffrey and Mary Franz
Tommy Fujinaka
Jane M. Galustian, M.D.
Murray B. Gardner, M.D.
and Alice E. Gardner
Gary E. Gathman, M.D.
Mark Goldman, Ph.D.
Kathy Goodrich
Andrea V. Gray, M.D.
and Jason Gray, M.D.
John Griffing
Erich Groos Jr., M.D.
and Jane Groos
Gus and Sara London
Maria Hagiato
Richard and Lucille Harrison
Patrick Harrison
Marcia Hartman
John Hayes, Jr. and
Renee Hayes
George Heidel
John and Michelle Henskens
Carl Fischer
and Olga Hermosillo-Fischer
M. Frances and
Dorsey Hoffman
Theodore and Edith Hsiao
Megan Hughes-Salaber
Frank and Lee Ismail
Hai Tong, O.D. and
Laria Johnson-Tong, O.D.
Raymond and Sharon
Kassis
James and Glenys Kaye
Werner and Harriet Keim
Ronald and Janean Kelling
Roland Krapf
Christopher and
Holland Lattin
Mary Jane Large
and Marc Levinson
Martin Leamon and
Susan Palsa
Robert and Chieko Lehman
Adrienne McCann-Stecher
and Damien McCann, Ph.D.
Dr. Stephen and
Mrs. Marsha Mannis
Gary and Adelle Marcich
Jack D. and Charlotte Mast
Richard and
Virginia McRostie
Charlene and Jim Meenan
Donna and Bruce Mickie
Dragica Mihanovich
Dorothy Miles
Joseph and
Shirley Mohamed
James Monroe
John Moody
Edward and Emilene
Morrison
Melvin and Adele Nowicki
Walter Orey
Mike and Joan Parkerson
Ernest Pinney and
Robert Walker
Kerstin Renner
Rita Rice Hubbard
Helen Ridolfi
Sheldon and Nancy Reiger
Melinda Rosin-Seltzer
Walter and Patricia Rothe
Dr. James
and Mrs. Judi Ruben
Arthur Rynerston
Jose and Lorena Salazar
Geraldine Schaffer
Truman and Mary
Schoenberger
Milton and Nancy Schultz
Hiroko Sherrel
Susan and Stanley Silva
Mary Simpson
Calvin and Josephine
Skancke
Michael and Mary Skeels
John Small
Dee Sorenson and
Don Ballenger
Loretta Starr
Gang Sun
Edward Sweet, Jr., M.D.
Tomie and Glenn Takahashi
Walter and Ione Tietjen
Peery Tischer and
Patricia Green
Dr. and Mrs. Frederic A. Troy
Helen Tsai
Ann and Masuo Tsuda
James and Shirley Underhill
Kaaryn Pederson
VanBuskirk, O.D.
Eleanor Vance
Noble and Susan Vosburg
Du Vu
Mr. and Mrs. Donald Warner
Dr. and Mrs. George Watson
Harold and Verda Webster
Robert and Vicky Weidner
Mr. and Mrs. Kenneth Weller
Robert W. Wing, M.D.
David Woods, M.D.
Mansour Yaghoubian

Heritage Circle

Fiore Ai
Elizabeth Alden
Anonymous (2)
Curtis and Amy Chiuu
Gene and Phyllis
Christopher
Eileen L. Doran
Patricia Ekstam
Jill Frechette-Walker
Francisco J. Garcia-Ferrer,
M.D.
Dawn Healy
Dixie Henderson
Dr. & Mrs. Leonard M.
Hjemlendal
Jan Little
Maxine McCabe
Juliette McCoy
Dr. and Mrs. Richard A. Murray
Gene Owens
Mr. and Mrs. Lawrence Schei
Jerine Schoenwald
Jim and Mary Jo Streng
David & Lois Warren

In Memoriam
Sandra Aguirre
Robert L. Alexander, M.D.
Dean Ekstam
Del Henderson, Ph.D.
Dorothy Knoell, Ph.D.
Mr. & Mrs. Edward Lawrence
Dona Platt
Agnes B. Russfield, M.D.
Mary Beth Tasker, M.D.

The Dean and Patricia Ekstam Endowed Fund
Dean and Patricia Ekstam

The Charlotte Dunmore Fund
Charlotte Dunmore Estate

Mary Beth Tasker, M.D. Research Fund
Mary Beth Tasker, M.D.
Barbara Arnold, M.D.
and Henry Go, M.D.

Natalie Fosse Fund
Natalie A. Fosse Estate

Giroud Burt Johnston Fund
Agnes B. Russfield, M.D.

The Joseph F. and Virginia C. Schmidt Fund

Joseph F. Schmidt Estate

Herman and Helen Schalk Memorial Fund

The Alta and Clyde Hammond Research Fellowship in Glaucoma Fund
Wylde Hammond Nelson, M.D.

Ophthalmology Program Support Endowment Fund

The Byron Demorest Pediatric Ophthalmology Fund
Anonymous
Barbara J. Arnold, M.D. and Henry Go, M.D.
Margaret Barrows
Roberta Bramham
Bill Bryant
Patrick Caskey, M.D.
Jeffrey and Susan Caspar
Dr. and Mrs. Phillip H. Choo
George Deubel
David S. Deutch, M.D.
and Mary M. Harris, M.D.
Dr. and Mrs. Byron Demorest
Eye Site Sacramento Medical Group, Inc.
Richard Jones, M.D.
Christian Serdahl, M.D.
Billie Fortlage
Dr. and Mrs. Ronald E. Foltz
Alexander H. Harcourt, Ph.D.
Robert F. Ingels
Dr. and Mrs. Ronald A. Kalayta
John and Nancy Keltner
Ann M. Kohl

Drs. Jaeoho Lee and Esther Kim
Philip Levy, M.D.
Richard Lewis, M.D.
Dr. and Mrs. Mark Mannis
Mercy Medical Staff Library Fund
The McBeth Foundation
James Monroe
Barbara R. and James A. Monroe Family Fund
Dr. and Mrs. Thomas Moore
Dr. and Mrs. Lawrence S. Morse
Dr. and Mrs. Richard A. Murray
Jeanada H. Nolan
Dr. and Mrs. Thomas Purcell II
Denise Satterfield, M.D.
Dr. Michael Schermer and Mrs. Rochelle Berg Schermer
Ivan and Nora Schwab
Dr. Norman Schwill and Mrs. Reba Schwilk
Muriel Brown Sizoo
Sierra Health Foundation
Theodore Steinberg and family
Kelly J. Stewart, Ph.D.
Dr. Michael Sugawara and Mrs. Sachiko Sugawara
Christian Swanson
David and Theresa Thorpe
Hills Warren, M.D.
James Terry Wilkinson
Zeiter Eye Medical Group, Inc.
Dr. Richard Zipf and Mrs. Mary Zipf

Michael Schermer Family Endowed Fund
Michael and Rochelle Berg Schermer

Eye Center Fund
Anonymous (8)
Tom and Anne Adams
Margaret E. and Warren D. Anderson
Maria Christine Anderson
Kimberly Angelo
Mohammad Afzal Arain, M.D.
Barbara Arnold, M.D.
and Henry Go, M.D.
James Atwood, M.D.
Robert and Valerie August
Virginia Bane
Joseph Barish and Leesa Speer-Barish
Paul and Margaret Barkin
Thomas Barnes, O.D.
Naomi Barrow
Margaret Jury Barrows
Mr. and Mrs. Wayne Bartholomew
James Baum
Craig E. Berris, M.D.
and Debbie Berris
Del Beutler
Mohinder Bhardwaj
Mr. and Mrs. James Binse
Henry and Hazel Booher
Richard W. and Wilma R. Bower
Dennis and Charlotte Bracht
Charles Bradbrook, Jr., M.D.
Dr. and Mrs. Jay C. Bradley
Dr. and Mrs. James D. Brandt
Louise Brubaker-Watton
Mr. and Mrs. Ronald K. Bryant

Mr. and Mrs. Louis Burns Cantoni
John Canz, M.D.
Beverly Carasali
Wanda and Earl Casazza
Patrick Caskey, M.D.
Jeffrey and Susan Caspar
David Chaffin, M.D.
Kevin Chang, D.D.S.
and Brooke Chang, O.D.
Marina Chechelnitsky, M.D.
Curtis and Amy Chiuu
Rajinder and Paramdeep Chohan
Dr. and Mrs. Phillip H. Choo
Gene and Phyllis Christopher
Mr. and Mrs. Donald L. Clark
James R. Clark
Dr. William H. Coats
Mr. and Mrs. Glenn R. Colburn
Ronald Cole, M.D.
John Conner
Leon Cory
Mr. and Mrs. Jack Cotton
Mr. and Mrs. Walter Cram
Noreen A. Crowley
Lorraine Lavine
Cunningham
Jason Darlingon, M.D.
Mr. and Mrs. Harvey Davis
Richard M. Davis, M.D.
James Deak
Raymond De Meyer
(In memory of John S. Dean, O.D.)
Dr. Margaret De Young
Bhupinder and Hardev Dhillon
Diane Diep
Tita Diepenbrock
Bessie Dikeman
Mr. and Mrs. Quong Doo
Eileen L. Doran
Carol K. Douglass
John and Nancy Dragicicvich
Yoshiko Drayton
Arthur Eggars
Dr. and Mrs. Carl Eliers
Mr. and Mrs. Keith Erwin
Ken & Nancy Fahn
Mr. and Mrs. Wing Fat
Vahid Feiz, M.D.
Mr. and Mrs. John Ferris
Norman Fifer
Barbara E. Fingerut
Harvey and Colleen Fitchu
Mr. and Mrs. Richard J. Flores
Dr. and Mrs. Ronald E. Foltz
Gustavo and Carol Foscarini
Jill Frechette-Walker
Rose Marie Frias
Dr. and Mrs. Murray Gardiner
Michelle Gaspi
Gary E. Gathman, M.D.
Thomas and Patsy Glass
Shirley Aldous Goldman
Rose M. Gonzales
Andrea V. Gray, M.D.
and Jason Gray, M.D.
Jane and Erich Groos
Emil and Terrie Gross
Dr. and Mrs. Robert H. Gross
William Gruzensky, M.D.
Dan Guettlinger
Maria Haigato
Thomas and Phyllis Hammer
Jacqueline Harris
Mr. and Mrs. Richard Harrison
Marcia and Jim Hartman
Dolores Healy
Andrew C. Hemphill
Huck Holz, M.D.
Lynne Hourigan
Frank Hull, M.D.
Independent Order of
Odd Fellows of California
Frank Ismail
Dr. Phillip D. James
James and Lila Kaiser
Dr. and Mrs. Ronald A.
Kalayta
Mr. and Mrs. Nikolai
Kaliakin
Craig C. Karr
Glennys and Jim Kaye
Mr. Brett Keiser
Janean Kelling
Dr. and Mrs. John L.
Keltner
Ann L. Kerr
Navid Khodadadi, M.D.
Thomas Kidwell, M.D.
David W. Kielty, O.D.,
M.D.
Daniel King, M.D.
David and Sunny Kira
Jerry and Kullaya Knapp
Dorothy Knoell, Ph.D.
Ivan Kochan, M.D.
Dr. and Mrs. J. William
Kohl
Clement and Melinda
Kong
Dr. and Mrs. Bon C. Koo
James Kowalick
Claudia Krispel, M.D.
Mr. and Mrs. Donald Lai
Maria J. Lamas
Angel Lamas Madera
Mary Jane Large
and Marc Levinson
Christopher & Holland
Lattin
Robert and Bonnie
Lauten
Drs. Jaeho Lee
and Esther Kim

Daniel and Linda Lee
Virginia and Richard
Lehman
Roger Leonard
Johnny Leung
Jennifer Li, M.D.
Michele Lim, M.D.
and Christopher
Sanders
Hank and Lily Lin
Lucy M. Lincoln
Karl Lokke, Ph.D.
Gus H. London
O.C. Loose
Marjorie Loyd
Sara Lynch
Malcom Robinson
Foundation
Dr. and Mrs. Mark
Mannis
Dr. and Mrs. Mark
Mannis
Dr. Linda Margulies
and Mr. James
Mc Donnell
Donn Marinovich
and Sherrin Grout
Julian Martinez
Charlotte and Jack D.
Mast
Lin V. Maxwell
Martin McCarthy, M.D.
Allan McKillop, Ph.D.
and Susan McKillop,
Ph.D.
Gerry and Susan Meyers
Dragica Mihanovich
Robert B. Miller, M.D.
Mr. and Mrs. Akira
Mizoguchi
Michael Mizoguchi, M.D.
Frank T. Morita
Yvonne Morrow
Dr. and Mrs.
Lawrence S. Morse
Anne Mouer
Nabil and Sarah
Musallam
Fumio Nishida

Jerome W. H.
Niswonger, M.D.
Bruce Noonan, M.D.
Melvin and Adele
Nowicki
Mary O'Hara, M.D.
and William C. Lloyd
III, M.D.
Stephen Oka
Takeo Okimura
Mr. and Mrs. William
Olmsted
Eleanor Owen
Dr. Susanna Park
and Captain Robert
Newsad
Kaaryn Pederson-VanBuskirk, O.D.
Mr. and Mrs. Gene
Pendergast, Jr.
Dr. & Mrs. Jonathan
Perlman
Ernest Phinney
and Robert Walker
Manuel Pina
Dr. Claudia Pinilla and
Mr. Barry Latner
Louis J. Polk
and Betty Jane Polk
Sophia Potiris
Ret. Col. L.R.
Poundstone
Joseph R. Quant
Gregory and Megan
Rabin
Jack Radavero
Karen Randles
David Rater
Ben and Carolina Reg
Daryl Reiber
Ann Madden Rice
and Tom W. Rice
George Ritter
Jeff and Barbara Robin
Ina Robinson
Malcom Robinson
Foundation
Don and Fran Rockwell
R.A. Roemer
2012

Helen and Dick Rogers
Kevin H. Rogers
Alan and Barbara Roth
Dr. James
and Mrs. Judi Ruben
Mariln Salm
Drs. John and Trudy
Schafer
Mrs. Geraldine Schaffer
Lawrence A. Schei
Mr. and Mrs. Norbert
Scherber
Michael and Rochelle
Berg Schermer
Milton E. and Nancy R.
Schultz
Ivan and Nora Schwab
Margaret M. Schwarz
Dr. and Mrs. Norman
Schwilk
Virginia Scofield
Mr. and Mrs. Donald
Scott
Richard H. Seader
William Segal, M.D.
Peter and Margaret Shek
Dr. and Mrs. Allan
Sieffkin
Susan D. Silva
Frederick J. Simonelli,
Ph.D.
Jo and Cal Skancke
John T. Small
Rena S. Smilkstein
Dee Sorenson
Hissam Soufi, M.D.
Dr. and Mrs. Francis
Sousa
Katharine Stevens
Mr. and Mrs. Ray Stone
Frederick J. Strand
Jim and Mary Jo Streng
Dale and Norma
Stringfellow
Dorothy Strodtman
Edward Sweet, M.D.
Mr. and Mrs. Peter
Takahashi
Dr. and Mrs. Ronald
Tamaru
James and Evelyn
Tanimoto
Suzana Tanimoto, M.D.
and Barrett Ginsberg,
M.D.
Ernest Tark, M.D.
Kathleen A. Taylor
Francie F. Teitelbaum
Keri and David Telander
Daniel Terry, M.D.
Alva E. Thompson
Mr. and Mrs. Edouard
Thys
Hai Tong, O.D.
and Larissa Johnson-
Tong, O.D.
Mr. and Mrs. Kirk G.
Tracy
Dr. and Mrs. Frederic A.
Troy
Masuo and Ann Tsuda
Dr. and Mrs. Joseph P.
Tupin
Jean Lockett-Turner
Madhav Unde
Shirley and Jim Underhill
Everett and Mary Upham
Mr. J.P. Upham
Ray and Emil Uyehara
John Vacek and Lisa Lit
Stan Vail
Betty Van Order
Teresita Vines
Mr. and Mrs. Donald A.
Walker
Richard Walter
Mr. and Mrs. Donald
Warner
David and Lois Warren
(in honor of Dr. Ivan
Schwab)
Dr. and Mrs. George
Watson
Mr. and Mrs. Harold
Webster
Ken and Diane Weeks
Dr. and Mrs. Richard
Weise
John S. Werner, Ph.D.
Stephen H. Wetzel
Bob White
Bea Wickland
Dorothy Wiederrich
Roma M. Wiegel
James T. Wilkinson
RoseMary Williams
Betty Wilson Lane
Robert W. Wing, M.D.
F.A.C.S.
Mr. and Mrs. Albert
Wong
David Woods, M.D.
Dr. and Mrs. Robert J.
Zawadzki
Zeiter Eye Medical
Group, Inc.
Henry J. Zeiter, M.D.
Joseph T. Zeiter, M.D.
John H. Zeiter, M.D.
John C. Canzano,
M.D.
Mr. and Mrs. Rudolf
Zuidema

Vision Research Endowment
Margaret J. Barrows
Harold N. Clark
Dav-Lo Tours
Dr. and Mrs. Bryon
Demorest
Finest Eye Care
Dr. and Mrs. Ronald
E. Foitiz
Natalie A. Fosse Estate
Dr. and Mrs. Jerry G.
Gilbert
Dr. and Mrs.
William D. Gruzensky
Independent Order
of Odd Fellows of
California
LEADERSHIP

Mark J. Mannis, M.D., F.A.C.S.
Professor, Cornea, External Disease,
Chair
Research Interests: Corneal transplant technology, eye & skin diseases, and artificial corneas.

Michele C. Lim, M.D.
Professor, Glaucoma
Vice-Chair, Medical Director
Research Interests: Glaucoma patient compliance focusing on medication adherence and drug delivery.

GLAUCOMA

James D. Brandt, M.D.
Professor, Glaucoma
Director, Glaucoma Service
Research Interests: Nanotechnology for innovation in glaucoma treatments.

Annie K. Baik, M.D.
Assistant Clinical Professor, Glaucoma, Veterans Administration, Mather
Research Interests: Emerging glaucoma surgical techniques, patient education.

CORNEA, EXTERNAL DISEASE AND UVEITIS

Ivan R. Schwab, M.D., F.A.C.S.
Professor Emeritus, Cornea, External Disease and Uveitis
Director, Cornea, External Disease Service
Research Interests: Limbal stem cell transplants and comparative anatomy.

Francisco J. Garcia-Ferrer, M.D.
Associate Clinical Professor, Cornea, External Disease and Refractive Surgery, Veterans Administration, Mather
Research Interests: New technology for refractive surgery.
Jeffrey J. Caspar, M.D.
Clinical Professor,
Comprehensive Ophthalmology and Refractive Surgery
Director, Residency Program
Research Interests: Cataract surgery after refractive surgery and new techniques for cataract extraction.

Esther S. Kim, M.D.
Clinical Professor,
Comprehensive Ophthalmology
Director, Optometric Services
Research Interests: Improvement of technology in cataract surgery.

Michele C. Lim, M.D.
Professor, Glaucoma
Vice-Chair, Medical Director
Research Interests: Glaucoma patient compliance focusing on medication adherence and drug delivery.

“The service at this facility has always been efficient, friendly, and professional.”

Jennifer Li, M.D.
Assistant Professor, Cornea, External Disease and Refractive Surgery
Research Interests: Endothelial keratoplasty and keratoprosthesis surgery.

Mark J. Mannis, M.D., F.A.C.S.
Professor, Cornea, External Disease,
Chair
Research Interests: Corneal transplant technology, eye & skin diseases, and artificial corneas.
REFRACTIVE

Jeffrey J. Caspar, M.D.
Clinical Professor,
Comprehensive
Ophthalmology and Refractive
Surgery
Director, Residency Program
Research Interests: Cataract
surgery after refractive surgery
and new techniques for
cataract extraction.

Francisco J. Garcia-Ferrer,
M.D.
Associate Clinical Professor,
Cornea, External Disease and
Refractive Surgery, Veterans
Administration, Mather
Research Interests: New
technology for refractive
surgery.

PEDIATRICS AND ADULT STRABISMUS

Mary A. O’Hara, M.D.,
F.A.C.S., F.C.A.P.
Professor, Director, Pediatric
Ophthalmology and
Strabismus Service
Research Interests:
Development of new
technology in pediatric
strabismus.

Nandini Gandhi, M.D.
Assistant Professor, Pediatric
Ophthalmology and
Strabismus
Research Interests:
International ophthalmology
and curriculum development
abroad.

VITREO-RETINA

Lawrence S. Morse, M.D.,
Ph.D.
Professor, Vitreo-retinal
Surgery and Uveitis
Director, Retina Service
Research Interests:
Treatments for diabetic
retinopathy, age-related
macular degeneration and
retinal degeneration.

Linda J. Margulies, M.D.
Clinical Professor, Vitreo-
retinal Disease, Veterans
Administration, Martinez
Research Interests: New
treatments for age-related
macular degeneration.
Jennifer Li, M.D.  
Assistant Professor, Cornea, External Disease and Refractive Surgery  
Research Interests: Endothelial keratoplasty and keratoprosthesis surgery.

Lily Koo Lin, M.D.  
Assistant Professor, Oculoplastic Surgery  
Research Interests: Improvement of aging eyelids and the relationship between the orbital globe and trauma.

John L. Keltner, M.D.  
Distinguished Professor, Chair Emeritus, Neuro-Ophthalmology  
Research Director  
Research Interests: The effects of multiple sclerosis (MS) and cancer on vision.

Syed Khizer Khaderi, M.D., M.P.H.  
Assistant Professor, Neuro-Ophthalmology  
Research Interests: Genetic diseases of the optic nerve and visual psychophysics.

Ala Moshiri, M.D., Ph.D.  
Assistant Professor, Vitreo-retinal Surgery  
Research Interests: Genetic diseases of the retina.

Susanna S. Park, M.D., Ph.D.  
Professor, Vitreo-retinal Surgery  
Research Interests: Age-related macular degeneration, Proton beam treatments, and stem cell therapies.
OPTOMETRISTS

Thomas B. Barnes, O.D., M.S., F.A.A.O.
UC Berkeley School of Optometry
Senior Optometrist

Melissa Barnett Erickson, O.D., F.A.A.O.
UC Berkeley School of Optometry
Principal Optometrist

Hai Tong, O.D.
University of Missouri,
St. Louis School of Optometry
Senior Optometrist

Kaaryn Pederson-Vanbuskirk, O.D., F.A.A.O.
UC Berkeley School of Optometry
Senior Optometrist

Mark S. Goldman, Ph.D.
Associate Professor,
Neuroscience
Research Interests: Computer models of eye movement.

Leonard Hjelmeland, Ph.D.
Professor, Molecular & Cellular Biology;
Ophthalmology Research Interests:
Senescence of retinal pigment epithelium.
Brooke S. Chang, O.D.
UC Berkeley School of Optometry
Senior Optometrist

Larisa Johnson-Tong, O.D., F.A.A.O.
UC Berkeley School of Optometry
Senior Optometrist

Marie E. Burns, Ph.D.
Professor, Retinal Physiology
Research Interests: Photo transduction, photoreceptor adaptation, and protein movement.

Paul FitzGerald, Ph.D.
Professor, Cell Biology and Human Anatomy
Director, Center for Visual Sciences
Research Interests: The role of intermediate filaments in the biology of the ocular lens.

Andrew T. Ishida, Ph.D.
Professor, Neurobiology, Physiology, & Behavior
Research Interests: Modulation of retinal ganglion cell excitability.

Zeljka Smit-McBride, Ph.D.
Research Scientist
Vitreoretinal Research Lab University of California, Davis
Research Interests:
Genomics and epigenetics of aging and age-related eye diseases, age-related macular degeneration and diabetic retinopathy.
Christopher J. Murphy, D.V.M., Ph.D.
Professor, Comparative Ophthalmology
Research Interests: Biophysical cueing and modulation of cell behaviors.

Charles E. Thirkill, Ph.D.
Adjunct Professor Emeritus, Immunology & Biology.
Research Interests: Ocular immunology, retinal and optic nerve imaging techniques.

John S. Werner, Ph.D.
Distinguished Professor, Visual Psychophysics.
Research Interests: Color and spatial vision, normal aging and age-related disease, retinal and optic nerve imaging.

Robert J. Zawadzki, Ph.D.
Assistant Researcher, High Resolution Retinal Imaging.
Research Interests: Retinal and optic nerve imaging techniques.

Min Zhao, M.D., Ph.D.
Professor, Regenerative Cures.
Research Interests: The role of endogenous electric fields to stimulate cell migration, corneal wound healing and regeneration.

ACTUAL PATIENT QUOTE

“Good staff – good people – good doctors.”
The UC Davis Eye Center is pleased to announce the opening of a new clinic in Davis. Located within the newly constructed Student Health Services Building, this clinic is dedicated to fulfilling the optometric eye care needs of registered UC Davis students. With a fully staffed clinic and an optical shop, we have truly developed a one-stop service that is equipped to accommodate eyeglass prescriptions, contact lenses, and basic eye ailments. This is an exciting new partnership between the Eye Center and the main campus and we are proud to serve this vibrant section of the UC Davis community!

MELISSA BARNETT ERICKSON, O.D., F.A.A.O.
Lasik Surgery

Seeing is believing!

Put some action back in your active lifestyle!

Explore the maximum potential of your vision by scheduling a consultation with a UC Davis Eye Center Lasik surgeon today! At the UC Davis Eye Center we strive to do what is best for your individual vision needs. Is refractive surgery the best option for you? Whatever the answer, rest easy in placing your vision in the hands of our internationally renowned team of academic surgeons. Call 916.734.6650 or schedule an appointment online at www.ucdmc.ucdavis.edu/lasik
Upcoming Events

May 17-19, 2013
36th Annual UC Davis Eye Center Symposium
Ophthalmology 2013: Are you at the top of your game?
Napa Valley Marriott Hotel & Spa
Napa, California

June 15, 2013
UC Davis Eye Center Alumni Day
UC Davis Education Building
Sacramento, CA

Save the Date!

November 17, 2013
Alumni Reception
American Academy of Ophthalmology
New Orleans, LA