Research
Kellogg primed to become international Graves’ eye disease leader .......... 4
Understanding why cells decide to die can help us save vision ............... 6

Patient Care
Young tumor patient cured when three departments work together .......... 10
Two departments team up to manage intricacies of uveitis ............... 11

Education
Rising star completes residency and decides to stay at Kellogg .......... 12
New Residents Center outfitted for 21st century teaching ............... 15

Outreach
Young girl travels from Guatemala to Ann Arbor for rare surgery .......... 18
Beijing hospital recruits Kellogg scientist to oversee clinical trial .......... 19

Giving
Meaders’ warmth and generosity inspire Kellogg’s growth ................. 20
“Favorite son” of department honored with professorship ............... 22

We are pleased to be ranked among the top hospitals in the nation for Ophthalmology in the 2009 U.S. News & World Report survey.

2009 Annual Report • University of Michigan • W.K. Kellogg Eye Center
This report covers the period July 1, 2008 through June 30, 2009
Dear Friends,

We have so much to celebrate this year: the upcoming dedication of the W.K. Kellogg Eye Center expansion, the arrival of new faculty, including two of the foremost experts in Graves’ eye disease, and the unflagging and continued generosity of friends of the Eye Center. Then too, we celebrate a faculty 60-strong who contribute every day to the health and well-being of our patients battling eye disease.

It is a pleasure, after many years of planning and a few more for construction, to invite you to the Dedication of the expanded W.K. Kellogg Eye Center on April 23, 2010. It will be a grand celebration, not just for a new building, but for the many new programs and services it will enable us to provide. The theme, “Dedicated to Discovery,” reflects our goal to accelerate achievements in our core areas of vision research, education, and patient care. If you are a physician, please add April 23–24 to your calendar for a two-day symposium featuring leading ophthalmologists who will join the celebration.

New space gives us room—at last—to expand programs and faculty. The Department’s strength in Graves’ eye disease will grow significantly with the arrival of two highly-regarded Graves’ disease specialists from UCLA. Dr. Terry Smith and Dr. Raymond Douglas will work with their new colleagues here to develop the leading treatment and research center in the country for Graves’ eye disease and related autoimmune disorders. Read about them, and the new program, in this report.

We often talk about collaboration in research, but it is equally vital to our clinical programs. The Department is part of a world-class academic medical center and we frequently call on colleagues from other departments—and in return they call on us—to provide patients with the level of care they just can’t get anywhere else. Several stories in this report demonstrate the multidisciplinary care available at the University of Michigan.

So many individuals and organizations have helped us achieve this spectacular expansion of the Eye Center. I am deeply grateful for your support. I hope to have the chance to thank you in person during the Dedication ceremonies in April.

Paul R. Lichter, M.D.
F. Bruce Fralick Professor
Chair, University of Michigan Department of Ophthalmology and Visual Sciences
Director, W.K. Kellogg Eye Center

“The Department is part of a world-class academic medical center and we frequently call on colleagues from other departments—and in return they call on us—to provide our patients with the level of care they just can’t get anywhere else.”
In March 2010 the highly anticipated expansion of the W.K. Kellogg Eye Center will open its doors. It is the culmination of nearly ten years of planning for a state-of-the-art facility designed to help the Eye Center achieve new levels of excellence in vision research, education, and patient care. This new building will be the site of expanded research initiatives to propel discoveries for understanding and treating eye disease. It will be equipped with new technology to enhance training and patient care. And the new building will help us achieve our foremost goal: improving the lives of our patients who come to us for the most advanced eye care available anywhere.
A NEW BUILDING DEDICATED TO DISCOVERY

A FEW FACTS

230,000-square-foot 8-story building, connected to the current W.K. Kellogg Research Tower

50% more space for patient care, education, and research

76 examination rooms, compared to 50 in our current clinics

WHAT’S INSIDE?

7 subspecialty clinics and a comprehensive ophthalmology clinic

9 supporting services, including genetic counseling, diagnostic electrophysical testing, ophthalmic photography, and ocular prosthetics

6 operating rooms equipped with integrated communications technology

1 floor dedicated to vision research

2 floors dedicated to diabetes research in the new Delores S. and William K. Brehm Center for Type 1 Diabetes Research and Analysis

Gifts toward the New Building Construction

$20 Million Goal

$16.4 million raised

$3.6 million to goal

Gifts toward Research and Endowment

$20 Million Goal

$16.8 million raised

$3.2 million to goal
New faculty join Kellogg colleagues in planning a unique research and treatment center

Graves’ eye disease, also called thyroid-associated ophthalmopathy, remains poorly understood, according to the two newest faculty members at the U-M Kellogg Eye Center. They are shedding new light on the disorder through their research and an initiative to standardize the evaluation of treatment. These advances should one day help patients, chiefly women, who experience its painful manifestations — bulging eyes, double vision, and, in severe cases, vision loss.

Even before settling into their new laboratory, Terry J. Smith, M.D., and Raymond S. Douglas, M.D., Ph.D., are discussing several promising therapeutic agents that may soon be ready for clinical trials. And they are keen to join forces with other U-M specialists in developing a major research and treatment program for Graves’ eye disease and other autoimmune conditions.

Dr. Smith, the Frederick G.L. Huetwell Professor of Ophthalmology and Visual Sciences, is a renowned endocrinologist who has studied Graves’ disease, its eye manifestations, and related autoimmune diseases for over 20 years. His laboratory was first to describe the unique molecular attributes of tissue surrounding the eye that make it susceptible to inflammation in Graves’ disease. The discovery came as he questioned why a systemic disease associated with thyroid overactivity would single out the orbit as a site of involvement.

From these findings, Dr. Smith went on to identify a receptor that binds to antibodies and sets off a series of events resulting in inflammation and fibrosis — excessive scar-like tissue that pushes the eye outward and disrupts its function. Currently, he is mapping a signaling pathway where “cross talk” between cells and small molecules may provide a therapeutic target that allows interruption of the immune system’s assault on orbital tissue.

As he notes these successes, Dr. Smith observes that the biggest impediment in understanding Graves’ disease is lack of access to tissue early in the process. “It is generally later, when surgery is indicated, that we can access and analyze the tissue. But by then we may be looking at secondary reactions that are entirely different from those initiating the pathology,” he says. “It’s like looking at a scar that has formed over a wound. The scar is the reaction to the injury, not the cause of it.”
Developing treatments and a standard to measure their effectiveness

Dr. Douglas echoes these concerns, adding that he and Dr. Smith have taken a broad view of the disease process rather than searching for a “magic bullet.” Says Dr. Douglas, “As in other autoimmune diseases, there are multiple factors, no less than four or five things that go awry. If we can describe the factors affecting a particular patient—how much inflammation vs. fibrosis—we could design treatments to respond to specific characteristics.”

In one very promising study, Dr. Douglas has shown that B-cells, the body’s normal antibody-producing cells, play a pivotal role in the inflammatory process in Graves’ eye disease. He found that patients with severe inflammation responded to a treatment that depleted the B-cells and, remarkably, reduced activity of the disease. Conventional treatment with steroids did not help these patients.

Dr. Douglas was also instrumental in forming an international group to develop standard language and a scale for measuring the effectiveness of treatments. Through the International Thyroid Eye Disease Society (ITEDS), Dr. Douglas has collected data from ophthalmologists and endocrinologists worldwide to gain consensus regarding common indicators of disease activity and progression. The group now has recruited nearly 200 participants and Dr. Douglas believes a reliable rating index will soon be developed.

While they search for novel therapies, these researchers do not dismiss therapies that have been effective in allied diseases like rheumatoid arthritis. “Some of these therapies have cleared safety hurdles and they address processes common to both diseases,” says Dr. Douglas. Similarly, discoveries concerning therapy for Graves’ disease may have implications for other diseases, including rheumatoid arthritis, Crohn’s disease, and juvenile-onset diabetes.

Establishing an international center for the treatment and investigation of Graves’ disease

Kellogg’s new clinician–scientists envision a comprehensive research and treatment program here, drawing on resources within the Eye Center and the U-M Health System. One of their chief collaborators is Ravitz Foundation Professor Victor M. Elner, M.D., Ph.D., who served with Dr. Douglas on the ITEDS Steering Committee. “The Department has had a strong emphasis on Graves’ eye disease as well as a history of significant research in the inflammatory mechanisms of ocular disease in general,” says Dr. Elner, an oculoplastic surgeon and pathologist. “We know that many other diseases causing blindness, such as age-related macular degeneration and diabetes, have inflammatory components.”

Then, too, there is the prospect of collaborating with scientists studying diabetes when the Eye Center expansion and Brehm Center—with laboratories on adjacent floors—open in early 2010. In Type 1 diabetes, the focus of the Brehm Center, autoimmune destruction of pancreatic cells occurs by processes similar to those in Graves’ disease.

As Dr. Douglas sees it, the U-M is likely to become the “central proving ground” for research and treatment of Graves’ eye disease — a site for testing tissue and blood samples, for finalizing the Graves’ eye disease index, and for launching clinical trials.

“It always comes back to the patients,” says Dr. Douglas. “Graves’ eye disease affects them in the prime of their lives, causes emotional and physical pain, and challenges their quality of life. We plan to solve the mysteries of this disease with our new colleagues at the University of Michigan.”

Dr. Smith will see patients in the Department of Internal Medicine and he and Dr. Douglas will see patients in Kellogg’s Eye Plastic, Orbital and Facial Cosmetic Surgery Service.
One of the most common causes of vision loss is retinal detachment. Over the course of a lifetime, one person in 300 will experience a retinal detachment, usually from an event like a retinal tear or trauma, but also from diseases like diabetes or even macular degeneration. Retina specialist David N. Zacks, M.D., Ph.D., has been searching for a way to save vision in these people.

The retina’s photoreceptors get their nourishment from the layers of cells beneath it. When they become separated from this nutritional source they begin to die through a process of programmed cell death that scientists call “apoptosis.” Since apoptosis begins within hours of a retinal detachment, the sooner the retina can be reattached, the better for the patient’s vision. Regrettably, it is not always possible to perform a reattachment quickly. “If there were a way to postpone the start of programmed cell death,” says Dr. Zacks, “tens of thousands of patients would benefit.”

Dr. Zacks and his colleagues knew that a protein named XIAP (X-linked inhibitor of apoptosis) had a strong protective effect for cells in other diseases. Under the right circumstances XIAP could suppress the “cascade” of cell death by blocking the molecules (called caspases) that are responsible for apoptosis. The research team theorized that introducing XIAP into the retina would reduce the level of caspase activity and thereby increase the number of surviving photoreceptors.

Their theory turned out to be correct. In two groups of animals (one that received XIAP and one that did not) the scientists detached the retina. They found less caspase activity and fewer cells entering the apoptotic cascade in the XIAP group than in the control group. Most importantly, this resulted in more photoreceptor cells surviving long-term detachments in the XIAP-treated group.

“XIAP is not a treatment for retinal detachment,” emphasizes Dr. Zacks. “It is simply a way to preserve photoreceptors while the underlying disease process is being addressed.” If XIAP is successful in humans, this treatment could buy precious time until surgeons can reattach the retina and provide nourishment to the cells once again.
SEEKING NEW STRATEGIES TO SAVE VISION

With RPB support, scientists will study gene expression as a new approach to therapy for retinal degeneration

Debra A. Thompson, Ph.D., has played a pivotal role in identifying genes associated with a severe eye disease affecting children and young adults. The disease, Leber congenital amaurosis, is inherited and often causes blindness. Now, thanks to a generous award from Research to Prevent Blindness (RPB), Dr. Thompson is building on her earlier work to explore a novel approach to therapies for this and other inherited retinal diseases.

Dr. Thompson received an RPB Senior Scientific Investigator Award, one of several grants provided by the voluntary health organization to support eye research. RPB supports scientists at over 50 institutions across the country, providing awards at various stages in a researcher’s career. Kellogg scientists have benefited from the awards, receiving over $4 million in RPB funding since 1961.

“RPB has provided critical support for basic research in ophthalmology,” says Paul R. Lichter, chair of the Department. “It has allowed our scientists to explore new strategies for preventing and treating eye disease. This current award will allow Dr. Thompson to advance the development of therapies for a disease that has a devastating impact on children’s vision.”

Under the RBP grant, Dr. Thompson proposes a novel therapeutic strategy based on the regulation of gene expression — that is, prompting an existing gene to compensate for a defective or malfunctioning gene. Simply stated, it may be possible to “turn up” the output of a particular gene to bring about a desired effect. “The strategy is currently used in cancer research and other fields, but it hasn’t yet been applied to research on eye disease,” says Dr. Thompson. “An important advantage is that we are promoting naturally occurring mechanisms to bring about a therapeutic result.”

Specifically, Dr. Thompson studies the metabolism of vitamin A in the retina and the genetic defects that interfere with its delivery to or removal from the rods and cones. She is interested in the gene RDH12 and its mutations, which are known to affect this essential process. She has also discovered an anomaly: a mutation in this gene causes severe retinal degeneration in humans, but surprisingly, not in mice.

“Somehow the mice are compensating for the mutation. If we can identify that mechanism, it may be possible one day to replicate its action in humans,” says Dr. Thompson. She has already identified several genes — closely related to RDH12 — that she will investigate under the RPB grant. As she studies the role and function of these compensatory genes, she will also search for the mechanisms that regulate their expression.

“We still have a great deal to learn about the role of RDH12 in the visual cycle and about the factors that control gene expression,” says Dr. Thompson. “Our long term goal is to move toward new therapeutic options for inherited retinal degenerations, and in directions not yet under development for this group of diseases.”
Ophthalmology and MEND team up on early detection of eye disease

Two medical groups at the University of Michigan are joining forces to make sure that people with diabetes keep watch on their vision.

At the University’s newest diabetes health center, many patients will be provided with a retina scan — essentially a photograph of the inside of the eye — to catch the earliest signs of eye disease. The scans will be sent electronically to the Kellogg Eye Center where they will be read by ophthalmologist Donald G. Puro, M.D., Ph.D. If he sees any indication of disease, he will call the patient to Kellogg for a full eye examination.

“The program will serve patients who have relatively good control of their diabetes and, as a result, may not feel an urgent need to schedule regular eye exams,” says ophthalmologist Michael Smith-Wheelock, M.D., who directs the project for the Eye Center. He has worked with Craig Jaffe, M.D., professor, Division of Metabolism, Endocrinology and Diabetes (MEND), to get the program up and running in MEND’s new clinic at Domino’s Farms, Ann Arbor.
Elevated blood sugar levels put people at risk for diabetic eye disease, most commonly diabetic retinopathy, which occurs when blood vessels in the retina are damaged. The disease can cause permanent vision loss. In the new program, patients with exceptionally high blood sugar levels will not have retinal scans; instead they will be urged to schedule eye exams — and quickly.

Dr. Puro, who conducts a diabetes screening clinic at the Eye Center, hopes that the new program will alert patients to the damage diabetes can do to vision. “The ideal is that everyone with diabetes will see an ophthalmologist once a year. But as a practical matter, not everyone does,” he says. Dr. Puro notes that patients with diabetes are often at greater risk for cataract and glaucoma, making regular eye check-ups all the more important.

Dr. Puro recalls that about five years ago the University Health System set a goal to increase the rate of eye examinations for its patients with diabetes. The results have been positive. In June 2004, only 49% of patients with diabetes had scheduled yearly eye examinations; by December 2008, some 76% had done so. The new retina scanning program is yet another effort to alert patients to signs of eye disease so they can receive the earliest possible treatment.

Drs. Puro and Smith-Wheelock agree that patients today are better educated about diabetes and the need to monitor blood sugar levels. Still, many patients fail to appreciate the seriousness of diabetic retinopathy, observes Dr. Smith-Wheelock. “I have seen cases where a patient believes his vision is fine, but the exam clearly indicates diabetic retinopathy,” he says. “Fortunately, good visual screening can save their sight.”
Three surgeons perform a complex and delicate procedure to remove a vision-threatening tumor

Sean Kerr was born with a mass near his temple that kept his left eyelid from opening and interfered with his ability to see. Over time, the mass grew and Sean’s mother, Kathleen Kerr, was referred to Steven M. Archer, M.D., pediatric ophthalmologist at the U-M Kellogg Eye Center.

Dr. Archer was the first of several physicians from across the U-M Health System who provided Sean with the coordinated and highly specialized care he needed. While Dr. Archer knew that Sean had severe amblyopia, he realized that the tumor had to be treated first. Sean’s next visit was with Alon Kahana, M.D., Ph.D., an oculoplastic surgeon specializing in tumors of blood vessels around the eye. One of Dr. Kahana’s first steps was to order pictures of the mass using a dynamic contrast-enhanced magnetic resonance angiogram (CEMRA), which is a new and advanced imaging system.

The CEMRA confirmed Dr. Kahana’s suspicion that Sean had a rare form of arteriovenous malformation—a tumor of abnormal blood vessels—which involved both the tissues around the eye (orbit) and the front part of the brain. Given the type and location of the tumor, along with the potential surgical complications, Dr. Kahana called on two colleagues for help: Joseph J. Gemmete, M.D., an interventional neuroradiologist, and pediatric neurosurgeon Cormac O. Maher, M.D.

During the first part of the 10-hour surgery, Dr. Gemmete performed an extremely delicate procedure to embolize, or block, the abnormal vessels so they would not bleed during the rest of surgery. Next, Dr. Maher performed a craniotomy—a procedure where part of the skull is temporarily removed in order to access the brain and the orbit behind the eye. This allowed Dr. Kahana to remove the majority of the tumor without any severe bleeding episodes or complications. Because the tumor involved most of the upper eyelid, Dr. Kahana also reconstructed the lid to allow Sean to open the eye.

Sean’s surgery highlights the strengths of the entire U-M Health System with three different departments coming together and using the latest technologies to save this child’s vision and protect his life,” says Dr. Kahana.

Now 4, Sean is doing well. He can open his eye and is working with Dr. Archer to regain his vision. Every few months he sees Dr. Archer for patching—his strong eye is patched so his weak eye will develop—and Dr. Kahana to make sure the mass has not returned.

“This is the first time in Sean’s life that his eye has looked normal,” says Mrs. Kerr. “We’re so thankful for Dr. Kahana. He is a wonderful doctor who even went so far as to give me his cell phone number so I could call him at any time with questions. It was a scary process but all the surgeons did a wonderful job. We’re so lucky to have ended up at the University of Michigan.”

A Team Approach for a Young Patient
UVEITIS PATIENTS NEED CLOSE ATTENTION

Specialists team up to deliver best care and keep watch on harsh medications

At the age of 19, Helen Diponio found herself with a vision-threatening disease called uveitis. Her eyesight was blurry, filled with floaters, and getting worse. After several years of treatment elsewhere she undertook the research that led her to Susan G. Elner, M.D., Director of Kellogg’s Uveitis Service. Now 35 years old, Mrs. Diponio-Lamb has been coming to the Kellogg Eye Center for the past 11 years. She was fortunate to find the right doctor and the coordinated care needed to help her manage this complex and chronic autoimmune disease.

Uveitis is an inflammation of the eye that may affect either the front or the back of the eye or both. It may be difficult to diagnose correctly and treat effectively. Because uveitis can result in significant vision loss it must be treated promptly. In some cases it is related to other systemic diseases. In many cases it is chronic and requires therapy with oral prednisone or immunosuppressant drugs.

Dr. Elner sees many patients with this inflammatory eye disease. Along with her diagnostic expertise, she also understands the importance of coordinating care with a highly trained rheumatologist who helps monitor patients needing immunosuppressant drugs.

Dr. Elner sees many patients with this inflammatory eye disease. Along with her diagnostic expertise, she also understands the importance of coordinating care with a highly trained rheumatologist who helps monitor patients needing immunosuppressant drugs.

After confirming the diagnosis, Dr. Elner started Mrs. Diponio-Lamb on steroids, the typical first line treatment. Because uveitis is often chronic, patients may be on steroids for long periods of time—a problem because side effects can be uncomfortable, even dangerous, if not watched carefully. Steroids can cause obesity, mood disturbances, diabetes, and osteoporosis, in addition to other ailments. “We try to reduce these risks by substituting steroid-sparing medicines if the patient requires long-term steroids,” says Dr. Elner. “That’s when we call on the expertise and experience of our colleagues in rheumatology. We also monitor our patients very carefully as we wean them off the steroids, looking for signs of reactivation.”

In Mrs. Diponio-Lamb’s case, Dr. Elner communicates regularly with University of Michigan rheumatologist, Dr. Vladimir Ognenovski, who administers and reads the monthly blood tests, discusses possible changes with Dr. Elner, and sees the patient twice a year. He and Dr. Elner collaborated closely when Mrs. Diponio-Lamb decided to become pregnant and knew her medications would have to change.

“These collaborations are critical to the patient’s health,” says Dr. Elner. “They need both of us. I treat the eye disease, the rheumatologist helps us manage the medicines necessary to control the eye disease and watches for related autoimmune diseases.”

Almost every other month, Mrs. Diponio-Lamb travels a couple of hours each way to the University of Michigan to see either Dr. Elner or Dr. Ognenovski. These visits are both for routine monitoring as well as for flare-ups of the uveitis, which reduce her vision. Dr. Elner has been able to treat these successfully with immunosuppressant drugs and steroid injections.

“I can’t say enough good things about Dr. Elner,” declares Mrs. Diponio-Lamb. “She is professional, kind, and patient. She answers all my questions carefully. She is a good teacher and a good doctor. I know I’m getting cared for properly.”
David Wu has won major awards, completed a doctorate in vision science, and now will hold a retina fellowship—all at the Kellogg Eye Center

Graduating Kellogg resident David M. Wu, M.D., Ph.D., recently was awarded a prestigious Heed Fellowship as well as the special designation as a Fellow of the Society of Heed Fellows. Both awards are given annually to the most promising graduating ophthalmologists from around the country who choose to pursue subspecialty training after residency. These honors are the most recent in a long list of accomplishments for this budding physician–scientist—almost all of them achieved during his tenure at Kellogg.

“I was very honored to be awarded the Heed Fellowship because, more than anything, I think it represents how fortunate I am to have trained at Kellogg,” says Dr. Wu.

Dr. Wu’s relationship with Kellogg dates to his undergraduate research on retinal regeneration, which piqued his interest in vision science. When it came time to choose a focus for his thesis, Dr. Wu received some pivotal advice from Paul A. Sieving, M.D., Ph.D., then on the Kellogg faculty and now Director of the National Eye Institute.

“He said I should be in a vision environment for my training,” says Dr. Wu, “and that Kellogg was
one of the few places in the country where broad approaches to vision research were being applied at the highest level.”

Because he was interested in electrophysiology, Dr. Wu chose Donald G. Puro, M.D., Ph.D., an ophthalmologist and electrophysiologist, as his mentor when he began his doctoral studies in vision research.

“Dr. Puro taught me that you can be both a great scientist and ophthalmologist,” Dr. Wu says. “It then became my goal to do what he does—see patients, ask scientific questions based on their problems, and then go back to the lab and try to answer those questions.”

After completing both his doctorate and medical degree at Michigan, Dr. Wu explored several residency programs but, again, all roads led back to Kellogg.

“I found very few places that had both a strong clinical program and a strong vision research program, so I wanted to stay and was very happy that I matched here,” he says.

Because of his retina interest, Dr. Wu sought out Kellogg’s retina faculty during his residency. Throughout the past three years, he has worked with John R. Heckenlively, M.D., studying retinal dystrophies, and David N. Zacks, M.D., Ph.D., studying apoptosis—a type of cell death.

“There probably aren’t too many residents in the country who have had the opportunities I’ve had because there aren’t too many other Kelloggs—eye centers where you get top-notch clinical ophthalmology training plus get to work with and be mentored by top physician–scientists,” he says.

“Dr. Sieving said I should be in a vision environment for my training and that Kellogg was one of the few places in the country where broad approaches to vision research were being applied at the highest level.”
As the Director of the Vision Research Training Program (VRTP) at the University of Michigan Kellogg Eye Center, Peter F. Hitchcock, Ph.D., plays a key role in training the next generation of vision scientists. This is in addition to his extensive research program on injury-induced regeneration of retina cells. Understanding this regeneration will allow scientists to design stem cell-based replacement therapies for retinal diseases.

The VRTP, which began in 2002, provides financial support and covers tuition for trainees who plan to pursue careers in vision science. To date, 21 trainees (13 graduate students and 8 postdoctoral scholars) have benefited from this program. Students who are selected for the VRTP work with outstanding vision scientists in their laboratories and can take advantage of the multidisciplinary research environment at the U-M. Vision science trainees perform research in the fields of biological chemistry, molecular physiology, cell and developmental biology, genetics, molecular epidemiology, and neuroscience. “The VRTP really is the cooperative effort of vision scientists on campus to train the next generation,” Dr. Hitchcock says.

The program is supported by the Institutional Training Grant, funded by the National Eye Institute.

“Dr. Hitchcock is Principal Investigator.

Adding to his educational activities, Dr. Hitchcock serves as the first Director of the U-M Medical School’s Office of Postdoctoral Studies. This office serves, in part, to enhance the career development for postdoctoral fellows within the Medical School. “There are more than 500 research fellows within the Medical School who handle the bulk of the research performed in our labs. While this research is critical to the mission of the Medical School, career development is the fellows’ principal concern,” says Dr. Hitchcock. “Our fellows are highly skilled and highly trained, and they can choose from a number of career opportunities, including academic research, biotechnology, pharmaceutical research, science writing, and science policy. This office helps them identify their career goals.”
DR. HILARY GRABE
Talks about the
New Residents Center

Plans have been drawn up for a new Resident Education Center that will be equipped with the latest communications technology. In addition to more spacious conference and study areas, the center will include an integrated video and communications system linked to Kellogg operating suites, as well as a surgical skills laboratory and surgery simulator. Here’s what Hilary M. Grabe, M.D., who is just completing her residency, has to say about it.

“Having one central location where residents can study, catch up on work, and interact with each other will make the residency more productive. It will give the residents a base as they switch rotations from one service to the other, as well as make it easier to finish paperwork and call work and to dictate OR notes. The new center will also be more convenient for residents who are on standby for a new case or need to wait for a patient scheduled late in the day.

“The new teaching tools will be a real plus, as well. Surgery simulators will allow residents to practice techniques using a system that displays surgical situations and allows the user to ‘operate’ with handheld instruments that have a realistic feel.

This kind of system provides an alternative way for residents to practice surgery before entering the real OR. This will supplement the tools we already use, like our wet labs.

“New technologies will also support residency training, including a video and communications system allowing residents to watch surgeries recorded from the new operating suites. The images are spectacular. Residents or anyone else looking on will have a three-dimensional view of the surgery—it’s as if you were right there in the OR. The system will provide additional useful information when you review a procedure that you or another physician has performed.”

GRADUATING RESIDENTS: Where Are They Now?

Our residents completed their last rotations in June, after three years training with Department faculty and seeing patients in our clinics. Now they are in private practice or well into their subspecialty fellowships. Congratulations and all best wishes to our graduating residents.

**Omar R. Ahmad, M.D.**
Retina fellowship, Cole Eye Institute
Cleveland Clinic

**Hilary M. Grabe, M.D.**
Combined neuro-ophthalmology fellowship and clinical faculty appointment, comprehensive ophthalmology
U-M Kellogg Eye Center

**Roheena M. Kamyar, M.D.**
Cornea fellowship
U-M Kellogg Eye Center

**Jonathan T. Pribila, M.D., Ph.D.**
Pediatric Ophthalmology and Strabismus fellowship
University of Minnesota

**Christopher Rodarte, M.D.**
Glaucoma fellowship
University of California-San Diego

**Ron W. Slocumb, M.D.**
Private practice
Weston Eye Center, Roseburg, Oregon

**David M. Wu, M.D., Ph.D.**
Combined medical retina/research fellowship
U-M Kellogg Eye Center
Gary D. Haynie, M.D.
Retina Associates
Fargo, North Dakota
Completed residency in 1991

Dr. Haynie is at his best “when a patient presents with something a little unusual, and I get the time and opportunity to learn something new,” he says. His residency at the Kellogg Eye Center fueled his appreciation for learning. And because it was his second residency—the first was in internal medicine—he had a good perspective on what made for a good experience. “It was very comprehensive,” he says. “Not only did we have good coverage in departments such as cornea, glaucoma, and retina, but we also had instructors in disciplines not always available elsewhere, such as pathology and plastics.” Best of all, he says, was the good will that emanated from faculty. “I always looked forward to going to work.”

As Retina Specialists, Alums Have National Impact

Residencies and fellowships at U-M create a strong foundation for the pursuit of excellence, an effect that is multiplied as alumni mentor and train others.

Odette M. Houghton, M.D.
Assistant Professor
University of North Carolina Chapel Hill
Completed residency in 2004

Dr. Houghton’s proudest moment in her residency came when her first phacoemulsification patient had 20/20 vision the first day after surgery—and as a clinician, teacher and researcher, she continues to reach for excellence. A faculty member at the University of North Carolina Chapel Hill, she specializes in vitreoretinal surgery. “My patients come from a variety of backgrounds, and I appreciate the opportunity to manage and treat the challenging pathology that academic institutions attract,” she says. Her residency at the Kellogg Eye Center laid the foundation for her career and opened doors for her because of its strong reputation. “I have had the right education to be able to take good care of my patients in the most professional and ethical manner,” she says. “I strive to be as good a teacher and physician as those who trained me.”
Gary S. Gutow, M.D.
Retina-Vitreous Associates, P.C.
Nashville, Tennessee
Completed residency in 1973

Nurturing the growth of one of the premier retina practices in Tennessee has been a labor of love for Dr. Gutow, who was the first fully trained retina specialist in Nashville when he arrived in the mid-1970s. The practice he founded now has seven retina specialists. “What’s really wonderful is that we are able to help people today we could not have helped before,” he says. Dr. Gutow has seen many advancements in care over the years and regularly participates in clinical trials. His training at U-M prepared him well, he says. “The faculty members were accessible, and my fellow residents were first rate. The residency had a good mix of practical experience and didactic learning.”

Justin L. Gottlieb, M.D.
Associate Professor
University of Wisconsin
Completed residency in 1994

Training vitreoretinal fellows is a highlight of Dr. Gottlieb’s career at the University of Wisconsin, where he works with his wife, Barbara Blodi. “Our section has trained six fellows since I arrived, and I would gladly refer family and friends to each one of them for excellent care,” he says. He is also involved in clinical trials for the treatment of vitreoretinal disease. Working with a full-time academic faculty devoted to patient care, resident education, and research at the Kellogg Eye Center made an impression on him, he says. “Their dedication to academic medicine inspired me to pursue the same.”

Barbara A. Blodi, M.D.
Associate Professor
University of Wisconsin
Completed fellowship in 1993

Dr. Blodi completed her retina fellowship at the Kellogg Eye Center and spent two years on the faculty. Today, she practices at the University of Wisconsin and pursues research interests at the University’s Fundus Photograph Reading Center. She enjoys participating in clinical trials. “In this way, we can offer patients the latest in patient care and can answer clinical questions regarding which treatments are most effective,” she says. Her mentors at U-M helped her grow as a teacher, clinician, and clinical researcher, she adds. “My years at Kellogg provided me with the confidence and competence to be successful in my career. And I met my husband (Justin Gottlieb) in the process, too!”
Though they live in Guatemala City, it seems the Morales family was destined to find pediatric ophthalmologist Monte Del Monte, M.D., almost 2000 miles away. When Sergio Morales learned that his daughter had inherited a rare eye disorder, he began to search for a surgeon who could help. There was no such specialist in his country, so he turned to Washington D.C., where, as it turned out, one of Dr. Del Monte’s mentors had treated Mr. Morales for the same disorder in 1985.

When the Washington hospital was not able to help, Mr. Morales continued his search and learned that an American physician had come to Guatemala in 2007 as part of a medical mission trip. The physician, Dr. Del Monte, had helped a little boy by performing the very same rare surgical procedure that his daughter now needed.

Both Mr. Morales and his daughter, Carmen, have congenital fibrosis of the extraocular muscles, a syndrome that affects ocular motor nerves as well as muscles surrounding the eyes. As a result, those affected have very limited eye movement, their eyes pulled into far downgaze while the head is positioned straight ahead. These patients tend to develop strabismus (misaligned eyes). Before their surgeries, Mr. Morales and Carmen could achieve partial vision only by tilting their heads far backward to peer through a narrow slit. “The position is abnormal and very uncomfortable,” said Mr. Morales, who had two surgeries when he was 6 and 7 years of age, performed by Marshall M. Parks, M.D., the mentor to Dr. Del Monte.

Mr. Morales sent photos of Carmen, not quite two years old, to Dr. Del Monte, the Skillman Professor of Pediatric Ophthalmology, who generously waived his surgical fee. In May 2009, the family came to the Kellogg Eye Center in Ann Arbor, where Dr. Del Monte performed surgery to release and loosen the fibrotic and severely restricted inferior eye muscles on both eyes. This allowed Carmen’s eyes, for the first time, to look straight ahead.

Two days after the procedure, Dr. Del Monte was pleased with the results. “Carmen’s head position is much straighter, and so her motor skills are much better, and more natural, too,” he told Mr. and Mrs. Morales. “Her right eye is wandering a bit, so Carmen will need patching to force that eye to work by itself.” He gave the Morales family instructions that they could share with their Guatemalan ophthalmologist back home. Dr. Del Monte also suggested that Carmen return for a second procedure to further tighten the upper eye muscles and further elevate her eyes, “something new” since her father had his surgery.

As they said good-by, Mr. and Mrs. Morales expressed their gratitude for Dr. Del Monte’s medical care and his kindness. Said Mrs. Morales, “We thank you and tell you in our heart how happy we feel.”
Two years ago at a meeting sponsored by the National Eye Institute, epidemiologist David C. Musch, Ph.D., M.P.H., was introduced to a Chinese ophthalmologist by a mutual colleague who said, “You two have got to talk.” This past spring Dr. Musch flew to Beijing to meet with Yuanbo Liang, M.D., Ph.D., and his professor, Dr. Ningli Wang.

As Dr. Musch found out in that first conversation, Dr. Liang was in the early stages of constructing a large clinical trial that was much like the Collaborative Initial Glaucoma Treatment Study (CIGTS), for which Dr. Musch was co-principal investigator and coordinating center director for 11 years. The Chinese trial, however, would focus on angle-closure glaucoma, the most common form of glaucoma in China.

After several rounds of discussions, it became clear that this complicated trial needed a co-investigator with Dr. Musch’s background and he has recently been asked to join the study group, now named the Initial Treatment Study of Primary Angle-Closure Glaucoma. “I never imagined that I would be in China developing a major clinical study. It’s a fascinating opportunity.”

In May, Dr. Musch met with Dr. Liang and colleagues at the Beijing Tongren Eye Hospital. During his stay, Dr. Musch presented lectures, discussed the principles of statistical approaches used in clinical trials, and provided guidance and hands-on assistance in their efforts to plan for a large multi-center collaborative trial.

Like CIGTS, this trial will use many centers, possibly even 15, in and around Beijing. Unlike trials in the U.S., the recruitment goal should be fairly easy to achieve; the Beijing Tongren Eye Hospital alone sees thousands of patients each day. Patient visits are not scheduled; prospective patients line up with their families in the corridors outside of the Eye Hospital’s many clinics.

Dr. Musch will travel to Beijing again this fall after the trial has been launched. Until then, as the team’s study design expert, he will be advising his new colleagues on protocols, recruitment efforts, community center oversight, and the myriad other details necessary to run a large-scale clinical trial.
Like the support Edwin and Mary Meader offered during their lifetimes, a bequest realized this year from the Edwin E. Meader estate was quiet but profound. The allocation in his will was a simple indication that a percentage of his trust should be used for the benefit of the Kellogg Eye Center, but the gift’s impact will be broad and significant.

“We are very grateful for Mr. Meader’s bequest, which will be used to build new laboratories, to purchase important equipment for our researchers and clinicians, to launch new initiatives, and more,” says Paul R. Lichter, M.D., F. Bruce Fralick Professor and Chair of the Department of Ophthalmology and Visual Sciences. “This support will help us begin to realize the full potential of our new building and will set the stage for years of continued scientific discovery.”

Mr. Meader (1909-2007), a military intelligence professional with a passion for archaeology and geography, and Mrs. Meader (1916-2008), an adventurer who took the first aerial photos of Africa and the granddaughter of William E. Upjohn, had a strong commitment to helping others. As stewards of the Upjohn legacy, they sought opportunities to make a difference. When they recognized a need for funds to expand the vision research program at the University of Michigan, they responded.
Their gifts were made at key points in the growth of the program. They established the Paul R. Lichter Professorship in Ophthalmic Genetics in 1990 as the research program was expanding. The professorship initially supported the work of Dr. Paul A. Sieving, who is currently Director of the National Eye Institute. It then helped recruit Dr. John R. Heckenlively, one of the top specialists in inherited retinal diseases, who holds the professorship today. The couple also created the Edwin E. and Mary U. Meader Vision Research Fund in 1993 to help fund faculty projects.

Dr. Sieving worked with other vision scientists in the Department, for example, to identify specific eye disease genes in nearly 30 different families. “We began by identifying individual patients who had medical conditions such as retinitis pigmentosa and Stargardt’s juvenile macular degeneration and then studied their families in Michigan and across the country,” Dr. Sieving explains.

“Clearly genes are a major determinant of our medical destinies, and finding a gene is something that stands for all time,” he says. “That’s what the Meaders’ endowments made possible. This work is now the basis for developing strategies to treat patients, including gene therapy. The Meaders’ contributions are benefiting many people.”

When it became clear to Mr. and Mrs. Meader that the program they had nourished could do even more, they gave a major gift to launch the Kellogg Eye Center’s current building campaign. To celebrate their commitment to vision, they agreed to allow the University to name the lobby of the new building in honor of Mrs. Meader and her grandmother. The lobby will bear the name Mrs. Meader shared with her grandmother: Rachel Mary Upjohn.

“The confidence Mr. and Mrs. Meader displayed in us allowed our research program to flourish,” Dr. Lichter says. “It is a wonderful time to celebrate all that has been accomplished and the advancements that will continue to be made through their goodness and generosity.”
Alumni Join Forces to Complete Professorship

Honoring a favorite professor is goal of campaign

Children of physicians often become physicians themselves. In Dr. Terry J. Bergstrom’s family, however, it is the love of teaching that has been passed down. Two of his four children are educators.

That’s fitting, as teaching is where many say Dr. Bergstrom has made his most enduring contributions. He has helped to train more than 200 ophthalmology residents and fellows and has taught thousands of medical students. Today a professor emeritus, he continues to teach and to see patients in the comprehensive and glaucoma clinics.

“He made me the ophthalmologist I am today,” says Jay Burgett, M.D., who completed his ophthalmology residency at the Kellogg Eye Center in 1997. “I hear his voice in my head during every surgery I perform. He was always available during my training at Michigan. He cared for his students and for our education. He would have done anything for us.”

To thank and honor Dr. Bergstrom, alumni of the Department recently renewed a campaign to create the Terry J. Bergstrom Collegiate Professorship. The fundraising endeavor has been energized by several leadership gifts this year. Major gifts from Kenneth and Pat Musson, Michael and Karen Pachtman, Jay and Cynthia Burgett, and Scott Corin and Nina Blumenthal are just some of the contributions that have brought the campaign over the halfway mark.

“We hope to raise the remaining funds and inaugurate the professorship as quickly as possible,” says Dr. Musson, who has known Dr. Bergstrom since their residency days at Michigan. “Terry is an exemplary leader and role model, and the respect that so many residents have for him is impressive. He has both a
great sense of humor and has had tremendous life experiences. He is able to connect with people in terms they readily understand, and he gives his students a confidence that they can carry over into their own practice.”

Dr. Bergstrom joined the Department’s faculty in 1980. He had completed medical school, his residency, and a glaucoma fellowship at the University and had spent 25 years as a pilot and later an ophthalmologist and flight surgeon in the United States Air Force. The University of Michigan had a small ophthalmology faculty 29 years ago, and at various times Dr. Bergstrom was called on to serve as chief of the glaucoma service, chief of the low vision service, chief of ophthalmology at the Veterans Affairs Medical Center, and chief of comprehensive ophthalmology. He also served as director of resident education from 1991 to 1998.

“I came here during a growth phase and was always happy to help out where I was needed,” he says. The residency director assignment was particularly appealing because he enjoyed working closely with residents. He had planned to become a high school teacher before deciding on medicine.

Teaching suited Dr. Bergstrom, and he won so many of the Department’s teaching awards that residents finally named the annual prize the Terry J. Bergstrom Resident Teaching Award — on the condition that someone else would have to win it.

A professorship in his name that would live on in perpetuity would be a great honor, he says. “The people in this Department have been a second family to me, especially the residents, who were like my children — and are now like my grandchildren. I get a kick out of watching residents learn and grow. They are so smart. They soak up knowledge and techniques like a sponge.

“I’m lucky,” he adds, “I have always been able to do what I love.”

The residents who have trained with him, Dr. Burgett says, have been lucky, too.

Dr. Terry Smith
Named Huetwell Professor

On the shoulders of giants is how Terry J. Smith, M.D., sees the work he pursues in Graves’ eye disease. Discoveries in his laboratory build on decades of advances achieved by researchers around the world, and his efforts to develop therapies to interrupt the disease process would not be possible without their enormous contributions.

The same is true when it comes to philanthropist Frederick G.L. Huetwell, says Dr. Smith, who is the first Frederick G.L. Huetwell Professor of Ophthalmology and Visual Sciences.

“It is a gift to be able to probe a particular question in great depth, and that is what an endowed professorship allows,” he says. “Mr. Huetwell’s contribution to medical research is inspiring and very humbling.”

Mr. Huetwell, a U-M alumnus and Detroit businessman who passed away in 1995, made gifts to several areas of medical research in his estate, including visual science. This new professorship has been established through the Kellogg Eye Center’s Frederick G.L. Huetwell Ophthalmic Research Endowment.

Dr. Julia Richards
Chosen Falls Professor

Harold F. Falls, M.D. (1909-2006), is known as the founder of ophthalmic genetics in the U.S. He spent his career at the University of Michigan, serving on the faculty for four decades after completing his medical degree and his residency at the University. To celebrate his contributions to the field, family, friends, colleagues, and alumni established the Harold F. Falls Collegiate Professorship in Ophthalmology and Visual Sciences in 2003.

Julia E. Richards, Ph.D., has been named the Falls Professor and will ensure that Dr. Falls’ commitment to defining the role heredity plays in eye disease continues. Her work centers on the identification of genes related to glaucoma.

“Dr. Falls has served as a role model for me since the beginning of my career,” Dr. Richards says. “His groundbreaking work has taught me how much can be learned if we go beyond the patient to view ophthalmic traits in the context of whole families. I am honored by this opportunity to follow in his footsteps.”
We thank the following individuals, foundations, and corporations for making gifts, including multi-year pledges, in support of the Kellogg Eye Center expansion project.

$2 million and up
Carls Foundation
Edwin E. and Mary U. Meader
Larry G. Miller

$1,000,000 to $1,999,999
Lynn H. and Robert W. Browne, D.D.S.
Richard and Jane Manoogian Foundation
Harold A. and Marian L. Poling
Helmut Stern
Robert and Ellen Thompson
The Harry A. and Margaret D. Towsley Foundation

$500,000 to $999,999
John F. and Casilda Daly

$250,000 to $499,999
Mickey and Karen Shapiro
Timothy and Laurie G. Wadhamas

$100,000 to $249,999
Frank J. and Helga Arnold
Charles and Rita Gelman
Johnson Controls Foundation
Carolyn and Paul Lichter
Keith and Della McKenzie
Dr. Charles L. and Kathleen K. Smith
David and Jayne VerLee
Mary June and William Wilkinson

$50,000 to $99,999
Steven and Constance Benz
Anne and Terry J. Bergstrom
Dave and Yvette Bing
Thomas C. Brown
The Campbell Fund
James and Martha Conrad
William and Carol Cutter
Gloria P. and William E. Dean, Jr.
Ruth B. Dixon
Robert and Cassandra Estes
Douglas P. and Shelley Felt
Richard and Lisa Garfinkel
Vincent R. and Joyce McLean
James and Nancy Rasin
Rennie and Michael Roth
Alan and Gail Sugar

$25,000 to $49,999
Anonymous Donor
James and Kathryn Adams
Herbert and Carol Amster
Harry and Patricia Bash
Robert G. Fante, M.D.
Joe and Beth Fitzsimmons
Larry and Mary Gerbens
Dr. Judy Gordon and Dr. Roger Meyer
Orpha Irwin
Helen and Richard Kerr
Kim Lindenmuth and Matthew Bueche
John and Phyllis Napley
Michael Petersen and Elizabeth Binasio
Helen and Earl Schaper

$10,000 to $24,999
Alfred Berkowitz Foundation
Seth Bonder
George and Connie Cress
Ann and Joseph W. Edwards
David Gavrin
Harry C. Gibson, M.D.
E. Paul and Lillian Gieser
James T. and Charlene L. Glerum
Richard F. Gutow
John R. Heckenlively
Virginia Hickman
Robert and Joan Hughes
KALSEC Corporation
W.R. Kenley
Robert and Mary Kiess

James G. and Carolyn Knaggs
Carol L. Makielski and Charles D. Lake
Donald and Jacqueline McCulloch
Dean and Lynn Mitchell
Andrew and Cathryn Moyes
Stanley and June Oleksy
U.E. Patrick
Sally J. Pryce
James R. Quinn, M.D.
Michael and Debra Raizman
James D. and Helene C. Reader
Franklin and Marilyn Sassaman
Perry and Faith Schechtman
Michael and Linda Smith-Whealock
Susan and David Thoms
Alfred and Carol Wick
W. Scott and Jill Wilkinson

$5,000 to $9,999
Everton and Saundrett Arrindell
Nancy Bender
Donald and Christine Beser
Robert D. and Jennie P. Biggs
Garry and Gretchen Binegar
Fred and Miriam Blum
Ralph and Kay Crew
Andrew and Margaret Hanzlik
Dr. and Mrs. John W. Henderson
Peter and Karla Hitchcock
Mark and Linda Johnson
New England Eye Center
Venkat and Alivira Reddy
H. Kaz Soong and Barbara Nevins-Soong
Danny D. Wang and Yili Wang

$1,000 to $4,999
Steven and Carol Archer
James and Martha Barnett
Edward and Martha Boggs
William and Julie Bromley
Bruce Cameron
Bill and Janet Cassebaum
Mark and Judith Cohen
Theresa M. Cooney, M.D.
Barb and Wayne Cornblath
Deborah M. Cox
Monte A. and Kristen G. Del Monte
Gayle D. Dickerson
Thomas and Susan Essman
Francis Falck
Judith Fitzgerald and Robert Glinert
Philip J. Gage and Wendy Rampson-Gage
Dasa and Nalini Gangadhar
Carol and Edward George
Jon and Sarah Gieser
Robert Goldsmith
Daniel and Norma Green
Robert and Teresa Grosserode
Robert O. and Carolyn S. Hoffman
Bret and Laura Alvarez Hughes
David and Patricia Johnson
Robert Keil
Key Foundation
Kirk and Constance Lignell
Bernard L. Moas Foundation
James Albert Maraldo
Marvin J. and Beverly McKenney
Shahzad Mian and Uzma Ahmad
Corey A. Miller, M.D., and
Nancy J. Miller
Sayoko Moroi and Mike Fetters
Christine Nelson and Willis Lillard
Betsy and Ken Nisbet
Mohammad and J. Elizabeth Othman
Michael and Karen Pachtman
Mark and Kimberly Phelan
Sheryl and Douglas Podlewski
Donald and Debra Puro
Julia Richards and Carl Marrs
Gary and Dianna Sandall
Stephen and Kim Saxe
Marcia and David Schmidt
Tara Schmitt and Christopher Palumbo
Carol and Irving Smokler
Carol L. Standardi
James B. Thompson and Mary Ann Brandt
Richard and Joyce Toner
Peter and Adele Vaculik
Margaret Vezina
Richard L. Wacksman
Randall S. and William K. Wallach
Richard and Kay Watnick
Adrienne West and Mark Hemmila

$500 to $999
Anonymous Donor
Ann Arbor Area Community Foundation
William and Elizabeth Arendshorst
Eric Arnold
Elizabeth A. Bertz
Frederick and Jean Birkhill
Steven and Jacqueline Boskovich
James and Jacqueline Bowen
Christina Bruno
Margaret Ann Cross and James Van Fletteren
Mr. and Mrs. David L. Diles
Gregory and Dottie Dootz
Jerome and Polly Finkelstein
Martin and Elaine Goode
June and R. James Harvey
William Hawkins
Richard Alan Lewis and Patricia N. Lewis
Richard Rodman and Patrice Bouzan-Rodman
Warren and Nancy Scherer
Barney and Geraldine Schwartz
Alta Rae and Gabriel Sitrin
Dr. Newel and Rosemary Smith
Becky and Doug Spaly
Thomas and Jane Stratford
Debra Thompson and William Strong
Jeanne T. Walters
Ronald E. Warwar, M.D.
Margaret B. White
Beverly Yashar and John Mesberg
David Zacks and Susan Harris

$250 to $499
Michael Bergiel
Anne M. Chase
James R. Devine
Hal and Donna Estry
Bruce and Susan Furr
Theodore and Naomi Harrison
Robert and Joan Jampel
Victor and Kendra Monroe
Diana and Robert Nast
Jeanne F. Smith
Scott E. Szalay
Pat and John Tongusi
Jonathan Trobe and Joan Lowenstein

Up to $249
Cynthia Abajuro
Katherine Augustaitis
Samir and Mona Binno
Renee Blosser
Carolyn and Leonard Bohm
Nancy S. Boutell
Marcia J. Boynton
Lisa Burkhart and Frank Hunt
James W. and Nola Cavett
Shirley Cee-Beck and David Beck
Beverly A. Conkle
Marlene and Paul Dodge
Donna M. Duffy
Darlene C. Fero
Elena Filippova
Jacqueline A. Forrest
Chad and Courtney Godfrey
Helene and Nikolaus Gugenheimer
Dr. and Mrs. Edward F. Hall
Margaret Hartz
Joseph and Lori Hymes
Walter Ingram
Laura E. Kakuk-Akins
Athanassios J. Karoukis
Roberta and Kenneth Kerste
Adabelle Knief
Judith Knitter
Piyush and Sarla Kathary
Susan L. Lichter
Michael and Judy Lipson
Susan Ludwig
Steven Manikas
James and Gay McGuckin
Midwest Transmission, Inc.
Donald and Barbara Mitrzyk
David and Benita Murrell
Dr. David and Janice Musch
Ajay Natarajan and Ritu Khanna
Olga Nelson
Gale and Yehuda Oren
Hemant Pawar
Rebecca and Paul Pazkowski
Carol J. Pollack-Rundle and Family
Judith and Michael Preville
Barbara and Art Rocco
Frank Rozsa and Szonja Puskas-Rozsa
Ross and Shannah Saltz
Grace and C. M. Schwind
Cindy Shaffran
Susan and Gary Simpson
Camille S. Smith
Amy Steele
Norma and Gene Stohler
Anand and Manju Swaroop
Mary Waldo
Molly and Robert Wheaton
Alyce Whipp
Kim Wisniewski
Anthony Wojciechowski
Jennifer Ziehm-Scott

DEDICATED TO DISCOVERY
Annual Honor Roll of Donors

With heartfelt thanks to donors who made gifts from July 1, 2008, through June 30, 2009. Included in this listing are contributors whose donations are part of multi-year pledges.

$500,000 to $999,999
- Edwin E. Meader Estate
- Larry G. Miller
- The Ravitz Foundation

$100,000 to $499,999
- Edward P. and Kathryn M. Bellas Trust
- The Foundation Fighting Blindness
- Richard and Jane Manoogian Foundation
- The Harry A. and Margaret D. Towsley Foundation

$50,000 to $99,999
- Anonymous Donors (2)
- The Campbell Fund
- Edward T. and Ellen K. Dryer Charitable Foundation
- Bartley and Cheryl Frueh
- Helmut Stern
- Michael A. Wainstock, M.D.

$10,000 to $49,999
- BCBSM Foundation
- Birkhill Family Foundation
- Scott M. Corin and Nina Blumenthal
- Frederica Cornell
- Jean E. Craig
- Elaine Frick
- Muhieddine Ghandour and Hala Jaroudi
- James T. and Charlene L. Glerum
- Frances and David H. Grossman
- W.R. Kenley
- Danute Leveckis and Timothy VanEvery
- Carolyn and Paul Lichter
- Keith and Della McKenzie
- Vincent R. and Joyce McLean
- The Meijer Foundation
- Joel and Susan Mindel
- The Carla J. Pfuhl Estate
- Mickey and Karen Shapiro
- Mildred E. Swanson Foundation
- Timothy and Laurie G. Wadhams

$5,000 to $9,999
- Anonymous Donors
- Harry and Patricia Bash
- Frank and Barbara Batsch
- Michael and Joanne Bisson
- Thomas W. Breakey
- Eleanor E. Brownell
- Ann and Joseph W. Edwards
- Maurine Ehrlich Estate
- Robert G. Fante, M.D.
- Richard and Lisa Garfinkel
- Andrew and Margaret Hanzlik
- Helen and Richard Kerr
- Susan J. Lane
- John and Ginger Myers
- Bruce L. and Roberta Oliver
- Michael and Karen Pachtman
- Michael Petersen and Elizabeth Binasio
- Sally J. Pryce
- Alan and Gail Sugar

$1,000 to $4,999
- James and Kathryn Adams
- Steven and Carol Archer
- Everton and Saundrett Arrindell
- Joaquin Barraquer
- Anne and Terry J. Bergstrom
- Fred and Miriam Blum
- Henry A. Boldt, Jr., M.D.
- Keith D. and Cheryl D. Carter
- Bill and Janet Cassebaum
- Mark and Janet Chichowsk
- Mark and Judith Cohen
- Claude M. Coleman
- James and Martha Conrad
- Theresa M. Cooney, M.D.
- William and Carol Cutler
- Gloria P. and William E. Dean, Jr.
- Monte A. and Kristen G. Del Monte
- Rosemarie DeLand
- Delta Gamma Fraternity Ann Arbor
- J. McGregor and Christine Dodds
- Magdalen Skuba Edwards
- Douglas P. and Shelley Felt
- Margaret E. Gallup
- Larry and Mary Gerbens
- Marian L. Gotshall
- Joanne R. Gradowski
- Robert and Teresa Grosserode
- Richard F. Gutow
- Geza L. and Elizabeth F. Gyorey
- Kenneth Alan Haller
- Myron Hepner
- Barry and Mary Ann Hoffman
- Robert O. and Carolyn S. Hoffman
- Bret and Laura Alvarez Hughes
- Walter and Barbara Hungerford
- Keith and Susan Kobet
- William W. Love
- Dr. Marvin and Sue Lubeck
Excellent eyesight was crucial to Dr. Herbert E. Weston’s profession as a dentist, yet he has battled eye conditions such as glaucoma and cataracts from the time he was in his 40s. Ophthalmologists at the Kellogg Eye Center, including former chair F. Bruce Fralick, helped preserve his vision, and he is grateful, Dr. Weston says. He has been contributing to the Annual Fund for more than 10 years.

“The Kellogg Eye Center is helping people like me see properly in order to do their work and carry on their lives productively,” he says. “We need to support a place that is working to that end.”

When Carla J. Pfuhl decided to include the Kellogg Eye Center in her estate plans, she was thinking about her children. “My mother was legally blind, and she wanted to make sure that my eyesight could be saved,” says daughter Darlene M. Smith. Several members of the Pfuhl family have vision difficulties, and Mrs. Pfuhl’s son had graduated from the University of the Michigan, so Kellogg was a good fit for her generosity, her daughter says. The Eye Center received a gift for research to cure macular degeneration when Mrs. Pfuhl passed away earlier this year.

Mrs. Pfuhl, who lived in Milford and loved to play bridge, raised three children and had a “wonderful life,” Mrs. Smith says. “She was the most wonderful woman. She cared about other people.”
Garry N. Binegar, M.D.  
Samir and Mona Binno  
Edward and Martha Boggs  
Stephen Boorstein, M.D.  
Paula Jean and Nicholas Bosch  
Nancy S. Boutell  
Daniel L. Braden  
William and Julie Bromley  
Brian P. Brooks, M.D., Ph.D.  
Dr. Margaret C. Brown  
Marion and Fred Burgett  
Wilbur and Carolyn Burkett  
Irving F. Burton  
Donald V. Calamia  
Norman and Maureen Campbell  
James and Geraldine Chaffers  
Sherry and David Chang  
Anne M. Chase  
Lillian V. Choate  
Hideki and Tomomi Chuman  
Shirley Coe-Beck and David Beck  
Donald L. Cole  
Carl and Maria Constant  
Patrick and Laura Coppens  
Sharilyn E. and Barry D. Coulson  
Ellen L. Coulthard  
Shannon and Chadwick Crane  
MargaretAnn Cross and James Van Fleteren  
Speers M. Crumrine  
Victoria and Michael Curley  
Dolores and Michael Czerniak  
Lyubica Dabich, M.D.  
Dart Bank  
James E. Davies  
Prof. William and Virginia Dawson  
Judi and Daniel DeMartin  
Margaret and George DeMuth  
James R. Devine  
Gayle D. Dickerson  
Dr. M. Kenneth and Arvene Dickstein  
Marlene and Paul Dodge  
Mr. and Mrs. Kenneth R. Dornbrook  
John and Vicki Dubnicka  
Mrs. Lois A. Dyer  
Bita Esmaeili, M.D.  
Blaine and Jean Evans  
Michael J. Fanola  
Mrs. M.J. Feener  
Stacia and Andrew Feinberg  
Bryn A. and Suzanne M. Fick  
Jerome and Polly Finkelstein  
Esther M. Floyd  
Dennis and Christine Fornal  
Ralph N. Funk  
Charles A. Gallup  
Carol and Edward George  
Mr. Walied K. Gossaynie  
Great Lakes Eye Care  
Norman Grigsby  
Adèle Gudes  
Besondy and Margaret Hagen  
Charlotte Hanson  
Laurelyne and George Harris  
Brian, Jennifer and Charlotte Heaton  
Ruth Heyn, M.D.  
Frederick J. Heyner  
Jeanne and Conrad Heyner  
Richard and Jane Hiss  
Charles F. Hoitash  
Janet Woods Hoobler  
Margaret M. and James E. Hughes  
Richard and Anne Jackson  
Mr. and Mrs. Kenneth B. Johnson  
S. Preston and Betty B. Jones  
Althea R. Kabak  
Daniel and Rose Kachnowski  
Carol L. Karp  
Jill Taft Kaufman  
Robert B. Kaufman, M.D.  
Rosemary S. Kaye  
Levi Kimball  
Michael A. Kipp, M.D.  
Robert and Toby Kleinberg  
William L. and Betty G. Knapp  
Frank J. Konkel  
J. David and Grace Kotre  
Drs. Teresa and Norman Krieger  
Susan and James Krucki  
Gerald and Dorothy Kurtz  
Marie Lane  
Louis and Gail LaRiche  
Kurt K. Lark, M.D.  
Lucille LeFler  
Gloria A. Lehman  
Gary Lelli and Kelly Böttger  
Cheryl L. and J. Paul Lemieux  
Bobbie and Myron Levine  
Jean and Edward Lewis  
Robertson A. Lewis  
Kim Lindemuth and Matthew Bueche  
Thomas Longworth and Carol Cramer  
Gisela I. Loveless  
Konrads V. Lubav  
Helen Price Luckham  
Angelo Maeso  
Joseph L. Maggini  
Marvin and Shirley Markgrafl  
John Martin  
Mrs. Catherine Masters  
Christopher McFarland  
Donald and Diane Meitz  
Professor George E. Mendenhall  
Robert and Margery Mesler  
William and Joan Mikkelsen  
Roberta L. Misko  
Helen Mitchell  
Margaret and Richard Moehl  
Ms. Marlene M. Molek  
Richard G. Mosteller  
John and Patricia Mott  
Dr. Patrick J. and Mrs. Jacquelyn P. Mulrow  
William J. Mundus  
Alphonsus and Ann Murphy  
Dr. David and Janice Musch  
Dr. Michel and Alice Nasif  
Diana and Robert Nast  
Christine Nelson and Willis Lillard  
Jonathan P. Niemczak  
Mr. and Mrs. Harry Nistel  
Kenneth E. Oettle  
John Orr  
Kelley Collins Osborne  
Mohammad and J. Elizabeth Othman  
Howard E. Parker  
Harriet Parsons and John Brundage  
Joseph F. Pavka  
Gordon E. Peckham, Sr.  
Keith and Janet Lee Perkins  
Maureen and Thomas Phelps  
Joy and Luke Pinkerton  
Marcy H. Plant  
Sheryl and Douglas Podlewski  
Mrs. Nancy L. Pohly  
Judith and Michael Preville  
Rebecca and Eric Priebe  
Drs. Douglas J. and Leslie E. Quint  
Drs. Penpor and Stephen Reck  
Mr. and Mrs. Walter F. Redmond  
Ann M. Reed  
Charles S. Remenar  
Rita and Robert Reske  
Dr. Thomas R. Riggs  
John Wallace Risk  
Walter and Marjorie Rizzi  
Barbara and Art Rocco  
Horace and Yvonne Rodgers  
Iva Jean Roe  
David and Ann Rogers  
Robert Roosenberg, M.D.  
Rennie and Michael Roth  
Jonathan A. and Robin L. Rowe  
Clifton D. Rowland  
Walter Z. Rundles, Jr.
In Memory of

The Kellogg Eye Center is honored to have received gifts in memory of the following individuals.

Jennie Ardagna  
Mary Argyle  
Robert Becker  
Sandra Bessert  
Idelle Binder  
Eleanor Brotemarkle  
Edith Brown  
Paul Curtis Chaffee  
Margaret Beacom Chapin  
Wanda Christian  
Ruth F. Clarke  
Birdie Cooper  
Louise DeMartin  
Harold Falls, M.D.  
F. Bruce Fralick, M.D.  
Louise Jacobson  
Albert Kabak  
Steve Kaufman  
Alfred Kurowski  
Susan L. Lichter  
Joseph Masters  
Marvin J. McKenney, M.D.  
Margaret Mershon  
Lillian Moore  
Vincent Mroz  
Anna Nalebpka  
Madeline Pellerin  
Carla Pfuhl  
Carl D. Roe  
Dr. Frank Sassaman  
George R. Scougale  
Mary H. Sedlar  
John J. Sidor  
Lillian R. Uphaus  
Madeline L. Vantine  
Thomas Harden Willcockson, M.D.

Bequests and Other Planned Gifts

It is with deep gratitude that we recognize the following individuals for making the Kellogg Eye Center a part of their estate plans.

Frank J. and Helga Arnold  
Nancy Bender  
Anne S. Benninghoff  
Rhoda L. and Roger M. Berkowitz  
Robert D. Biggs, M.D.  
Ruth F. Clarke  
Gloria P. and William E. Dean, Jr.  
Ralph M. Fox  
Helen A. (Poorbaugh) Freedman  
Larry and Mary Gerbens  
Ed and Sue Gorney  
Ida Lucy Iacobucci  
Mrs. Harry Krashen  
Harry and Eva McGee  
Marvin J. and Beverly McKenney  
Bruce L. and Roberta Oliver  
Mrs. Shirley M. Schaible  
William Selezinka, M.D.  
Dr. Newel and Rosemary Smith  
Russell A. Stephens and Phyllis A. Capogna  
David and Jayne VerLee  
Michael A. Wainstock, M.D.  
Jean A. and Richard C. Wilson

In Honor of

The following individuals were honored through gifts.

Anthony P. Adamis, M.D.  
Najat Y. Binno  
Claudia Deschaine  
Jane Griffith Elliott  
Jerome I. Finkelstein, M.D.  
Mark W. Johnson, M.D.  
Paul R. Lichter, M.D.  
Shahzad I. Mian, M.D.  
Sayoko E. Moroi, M.D., Ph.D.  
Stephen J. Saxe, M.D.

Special Thanks

With appreciation to Myron Hepner and Delta Gamma Fraternity for their volunteer fundraising activities.

We make every effort to ensure the honor roll is accurate. Please call us at 734-615-0243 if you note any errors.
James L. Adams, M.D.

Publications

Steven M. Archer, M.D.

Awards/Honors/Leadership
• Best Doctors in America
• Visiting professor, Nationwide Children’s Hospital, Columbus, Ohio

Publications

Terry J. Bergstrom, M.D.

Grants
See grants, page 38

Grant M. Comer, M.D.

Awards/Honors/Leadership
• Reviewer, American Journal of Ophthalmology
• Reviewer, Retina
• Reviewer, Survey of Ophthalmology

Publications

Theresa M. Cooney, M.D.

Awards/Honors/Leadership
• Representative of the Michigan Society of Eye Physicians and Surgeons to the Michigan State Medical Society

Publications

Wayne T. Cornblath, M.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Best Doctors in America
• American Academy of Ophthalmology Achievement Award, 2008

Publications

Monte A. Del Monte, M.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Best Doctors in America
• Chairman, International Affairs Committee, American Association for Pediatric Ophthalmology and Strabismus

Publications

Jonathan B. Demb, Ph.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Associate Editor, Journal of Neuroscience

Publications

Susan G. Elner, M.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Best Doctors in America
• Chair, Thesis Review Committee, American Ophthalmological Society
• Section Editor, Eye
• Executive Editor, American Journal of Ophthalmology
• Director, Vitreoretinal fellowship program, University of Michigan Kellogg Eye Center

Publications

Victor M. Elner, M.D., Ph.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Best Doctors in America
• Lester T. Jones Surgical Anatomy Award, American Society of Ophthalmic Plastic and Reconstructive Surgery
• Senior Achievement Award, American Academy of Ophthalmology
• Member, Committee for Ocular Tumors, Pathology and Orbit, Lacrimal Plastic Surgery


Bartley R, Frueh, M.D.

Awards/Honors/Leadership

• Best Doctors in America

Publications


Richard E. Hackel, C.R.A.

Awards/Honors/Leadership

• Editorial Board, Journal of Ophthalmic Photography
• Editorial Board, Journal of Neuro-Ophthalmology

Publications


John R. Heckenlely, M.D.

Grants

See grants, page 38

Awards/Honors/Leadership

• Best Doctors in America
• Editorial Board, Journal of Ocular Biology, Diseases, and Informatics
• Associate Editor, Eye
• Silver Fellow, Association for Research in Vision and Ophthalmology

Publications


FACULTY HONORS, RECOGNITION, AND PUBLICATIONS


Bret A. Hughes, Ph.D.

Grants
See grants, page 39

Awards/Honors/Leadership
• Silver Fellow, Association for Research in Vision and Ophthalmology
• Member, Special Emphasis Panel, National Eye Institute, NIH
• Director, University of Michigan Core Center for Vision Research

Publications

Ida L. Iacobucci, C.O.

Publications

Mark W. Johnson, M.D.

Grants
See grants, page 39

Awards/Honors/Leadership
• Best Doctors in America
• Guide to America’s Top Ophthalmologists
• Member, Periodic Ophthalmic Review Tests (PORT) Panel, American Board of Ophthalmology
• Chairperson, Nominating Committee, Macula Society
• Member, Data and Safety Monitoring Committee: Comparison of Age-related Macular Degeneration Treatments Trials (CATT), National Eye Institute, NIH
• Editorial Board, American Journal of Ophthalmology
• Editorial Board, Retina
• Editorial Board, Retinal Physician
• Member, Committee on Programs, American Ophthalmological Society
• Secretary, The Retina Society

Publications


Alon Kahana, M.D., Ph.D.

Grants
See grants, page 39

Awards/Honors/Leadership
• Anthony Adams Prize for Outstanding Research in Ophthalmology and Visual Sciences, University of Michigan Kellogg Eye Center, 2009
• Member, American Society of Ophthalmic Plastic and Reconstructive Surgery
• Member, University of Michigan Comprehensive Cancer Center
• Member, Scientific Advisory Committee, International Thyroid Eye Disease Society
• Invited speaker, ARVO Ocular Oncology Course

Peter F. Hitchcock, Ph.D.

Grants
See grants, page 38

Awards/Honors/Leadership
• Director (founding), University of Michigan Medical School Office of Postdoctoral Studies
• Member, Executive Board of the Rackham School of Graduate Studies, University of Michigan
• Editorial Board, Journal of Ocular Biology, Diseases and Informatics
• Chair (ad hoc), Cell Biology Review Panel, NIH
• Chair (ad hoc), Molecular, Developmental, Cellular Neuroscience Review Panel, NIH

Publications


Hemant Khanna, Ph.D.

Grants
See grants, page 39

Awards/Honors/Leadership
• Young Investigator Award: XII International Symposium on Retinal Degenerations, Emeishan, Sichuan, China
• Reviewer, Fight for Sight
• Reviewer, Italian Telethon Foundation for Curing Genetic Diseases
• Member, Proposal Review Committee, University of Michigan Undergraduate Research Opportunity Program
• Member, Professional Development and Education Committee, Association for Research in Vision and Ophthalmology
• Editorial Board, Molecular Vision

Publications


Sarah S. Levy, M.D.

Outreach
• Guest Speaker, University of Michigan Turner Senior Resource Center

Paul R. Lichter, M.D.

Grants
See grants, page 39

Awards/Honors/Leadership
• Best Doctors in America
• Achievement Award, American Academy of Ophthalmology
• Board of Directors, Midwest Eye Bank
• Editor, “Cornea,” Ophthalmic News and Education Network, American Academy of Ophthalmology

Publications


**Sayoko E. Moroi, M.D., Ph.D.**

**Grants**

See grants, page 40

**Awards/Honors/Leadership**

• Best Doctors in America
• Alpha Omega Alpha, Gamma Chapter of Ohio
• Alpha Omega Alpha (Alone)
• American Academy of Ophthalmology Grants
• American Academy of Ophthalmology Awards
• Top of the Class, University of Michigan School of Medicine

**Publications**


**David C. Musch, Ph.D., M.P.H.**

**Grants**

See grants, page 40

**Awards/Honors/Leadership**

• Editorial Board, *Ophthalmology*
• Editorial Board, *Retina*
• Consulting Editorial Board, *Journal of Neuro-Ophthalmology*
• Scientific Advisory Board, Clinical and Translational Science Award, Michigan Institute for Clinical and Health Research
• Chair, Special Emphasis Grant Review Panel, National Eye Institute, NIH
• Reviewer, National Medical Research Council, Singapore
• Methodologist, Cornea and External Disease Preferred Practice Pattern Panel, American Academy of Ophthalmology
• Member, Advisory Group, Cochrane Collaboration Eyes and Vision Group US Project
• Expert group core member, Vision and Hearing Loss Expert Group, Noncommunicable Diseases Cluster, Global Burden of Diseases Study
• Invited faculty, Design, Conduct and Management of Clinical Trials in Eye Research, ARVO Foundation for Eye Research Clinical Trials Education, Portorož, Slovenia
• Key note address, Fifth Annual ARVO/PRizer Ophthalmics Research Institute
• Invited guest professor, Beijing Tongren Eye Hospital, Beijing, PRC
• Silver Fellow, Association for Research in Vision and Ophthalmology

**Publications**


Garcia DD, Shtein RM, Musch DC, Elner VM. Herpes simplex virus keratitis; histopathologic neovascularization and corneal allograft failure. *Cornea* 2009 [in press].


**Christine C. Nelson, M.D.**

**Grants**

See grants, page 40

**Awards/Honors/Leadership**

• Best Doctors in America
• Top Doctor, Hour Detroit
• Guide to America’s Top Ophthalmologists

**Publications**


**Howard R. Petty, Ph.D.**

**Grants**

See grants, page 40

**Publications**


Faculty Honors, Recognition, and Publications

Stephen J. Saxe, M.D.

Awards/Honors/Leadership
- Best Doctors in America
- Invited guest speaker, Center for Retinal and Macular Degenerations, Department of Ophthalmology, Hadassah-Hebrew University Medical Center, Jerusalem, Israel

Publications

Donald G. Puro, M.D., Ph.D.

Grants
- See grants, page 40

Awards/Honors/Leadership
- Best Doctors in America
- Editorial Board, Microcirculation
- Silver Fellow, Association for Research in Vision and Ophthalmology
- Ad hoc member, Biology and Diseases of the Posterior Eye Study Section, Center for Scientific Review, NIH

Publications

Julia E. Richards, Ph.D.

Grants
- See grants, page 40

Awards/Honors/Leadership
- Director, Glaucoma Research Center, University of Michigan Kellogg Eye Center
- Member, Scientific Advisory Board, The Glaucoma Foundation
- Member, Steering Committee, Multi-center Study to Map Novel Genes for Fuchs Corneal Endothelial Dystrophy, Case Western Reserve University
- Member, Glaucoma Research Society, International Congress of Ophthalmology
- Grant Review Panel, The Glaucoma Foundation
- Ad hoc reviewer, AED Study Section, National Eye Institute, NIH
- Ad hoc reviewer, BDCN Special Emphasis Panel, National Eye Institute, NIH
- Ad hoc reviewer, Canadian Institutes of Health Research, Ottawa, Canada

Publications

H. Kaz Soong, M.D.

Awards/Honors/Leadership
- Best Doctors in America
- Senior Honor Award, American Academy of Ophthalmology
- Program Co-Director, Cornea and External Disease Symposium, Pan-American Association of Ophthalmology, Joint Meeting of the PAAO and AAO
- Invited International Professor, Kaohsiung Medical College, Department of Ophthalmology, Annual Meeting of the Ophthalmological Society of Taiwan
- Visiting Professor, National Taiwan University Medical School

Publications
• Editorial Board, Ophthalmology
• Board of Directors, Midwest Eye Banks
• Board of Directors, World Eye Mission
• Medical Advisory Board, Eye Bank Association of America
• Chair, Research Committee, Eye Bank Association of America
• Chair, Ophthalmic Technology Assessment Committee, American Academy of Ophthalmology
• Vice-Chair, IRBMED, University of Michigan Medical School

Publications


Sugar A. Herpes simplex keratitis. UpToDate 2009 [in press].


Debra A. Thompson, Ph.D.

Grants
See grants, page 41

Publications


Susan S. Thoms, M.D.

Awards/Honors/Leadership
• Best Doctors in America
• Vice Chair, Board of Trustees for the Greater Detroit Agency for the Blind and Visually Impaired

Outreach
• Invited speaker, Salvation Army camp for the visually impaired

Jonathan D. Trobe, M.D.

Grants
See grants, page 41

Awards/Honors/Leadership
• Best Doctors in America
• Editor-in-Chief, Journal of Neuro-Ophthalmology

Publications


Andrew K. Vine, M.D.

Awards/Honors/Leadership
• Best Doctors in America

Publications

Jennifer S. Weizer, M.D.

Awards/Honors/Leadership
• Director, Glaucoma fellowship program, University of Michigan Kellogg Eye Center
• Director, Quality assurance committee, University of Michigan Kellogg Eye Center

Publications
Dongli Yang, M.D., Ph.D.

Publications

David N. Zacks, M.D., Ph.D.

Awards/Honors/Leadership
• Election to American Ophthalmological Society
• Writing committee, Basic and Clinical Science Course, Retina, Vol 12. American Academy of Ophthalmology

Outreach
• Guest Speaker, University of Michigan Turner Senior Resource Center, Low Vision Support Group
• Honorary Co-Chair, Foundation Fighting Blindness Eastern Michigan Vision-Walk

Publications

Conrad PW, Zacks DN, Johnson MW. Intravitreal bevacizumab has initial clinical benefit lasting eight weeks in eyes with neovascular age-related macular degeneration. Clinical Ophthalmal 2008 [in press].

Resident Awards

Cagri Besirli, M.D., Ph.D.
George Slocum Research Award, Second Place, 2008-2009

Brenda Bohnsack, M.D., Ph.D.
George Slocum Research Award, First Place, 2008-2009
Walter Parker Teaching Award, First Place, 2008-2009

Hilary M. Grabe, M.D.
George Slocum Research Award, Third Place, 2007-2008
Co-Chief Resident, 2008-2009

Roheena Kamyar, M.D.
Co-Chief Resident, 2008-2009

Irina V. Koreen, M.D., Ph.D.
George Slocum Research Award, Third Place, 2008-2009
James L. Laberge Award for Excellence in Research, 2008
Midwest Eye-Banks Eye and Vision Research Program Stipend Award, 2008-2009
National Eye Institute Travel Grant Award, 2009 ARVO meeting

Larry Koreen, M.D., M.P.H., Ph.D.
Midwest Eye-Banks Eye and Vision Research Program Stipend Award, 2008-2009
Walter Parker Teaching Award, 2008-2009

Jonathan Pribila, M.D., Ph.D.
George Slocum Research Award, Second Place, 2007-2008
Walter Parker Teaching Award, Second Place, 2007-2008

David M. Wu, M.D., Ph.D.
George Slocum Research Award, First Place 2007-2008
George Slocum Research Award, Third Place, 2006-2007
Heed Fellowship
James L. Laberge Award for Excellence in Research, 2007
Knights Templar Eye Foundation Award
Walter Parker Teaching Award, Second Place, 2008-2009
Walter Parker Teaching Award, First Place, 2007-2008
<table>
<thead>
<tr>
<th>Faculty Name</th>
<th>Source</th>
<th>ID</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>T. Bergstrom, M.D.</td>
<td>NIH/Clinical Trial</td>
<td>U10-EY010439-15</td>
<td>Ocular Hypertension Treatment Study (OHTS) &lt;br&gt;Coordinating Center: Washington University</td>
</tr>
<tr>
<td>W. Cornblath, M.D.</td>
<td>ICON Clinical Research/Pfizer</td>
<td></td>
<td>Case-Crossover Study of PDE5 Inhibitor Exposure as a Potential “Trigger Factor” for Acute NAION &lt;br&gt;Coordinating Center: Washington University</td>
</tr>
<tr>
<td>M. Del Monte, M.D.</td>
<td>NIH/Clinical Trial</td>
<td>U10-EY011751</td>
<td>Pediatric Eye Disease Investigator Group &lt;br&gt;Multiple Projects, Coordinating Center: Jaeb &lt;br&gt;Phase I Open Label Study of Latanoprost in Pediatric and Adult Glaucoma Patients</td>
</tr>
<tr>
<td>J. Demb, Ph.D.</td>
<td>NIH/RPB Sloan Foundation</td>
<td>R01-EY014454-05</td>
<td>Functional Circuitry of Visual Adaptation &lt;br&gt;Career Development Award &lt;br&gt;Sloan Research Fellowship</td>
</tr>
<tr>
<td>S. Elner, M.D.</td>
<td>NIH/Clinical Trial</td>
<td>U10-EY014660</td>
<td>Multicenter Uveitis Steroid Treatment (MUST) Trial &lt;br&gt;Coordinating Center: Johns Hopkins University</td>
</tr>
<tr>
<td>V. Elner, M.D., Ph.D.</td>
<td>NIH/RPB Michigan Universities Commercialization Initiative U-M Medical School</td>
<td>R01-EY009441-13</td>
<td>RPE-M&lt;sup&gt;ϕ&lt;/sup&gt; Binding: Ca&lt;sup&gt;++&lt;/sup&gt; &amp; O&lt;sub&gt;2&lt;/sub&gt;- Dependent AMD Responses &lt;br&gt;Senior Scientific Investigator Award &lt;br&gt;Prototype Development ETCF Grant</td>
</tr>
<tr>
<td>P. Gage, Ph.D.</td>
<td>NIH</td>
<td>R01-EY014126-06</td>
<td>Pitx 2: Molecular Mechanisms in Eye Development and Disease</td>
</tr>
<tr>
<td>J. Heckenlively, M.D.</td>
<td>NIH/FFB/Neurotech USA/FFB – Canada</td>
<td>R01-EY007758-20, R01-EY016862-04</td>
<td>Mouse Models of Human Hereditary Eye Diseases &lt;br&gt;Genetic Variations in Age-related Macular Degenerations &lt;br&gt;Center for the Study of Retinal Degenerative Diseases &lt;br&gt;Consortium Treatment Grant: Assessment of Therapies &lt;br&gt;Resource Facility for X-linked Retinitis Pigmentosa and Age-related Macular Degeneration &lt;br&gt;Phase II/III Study of Encapsulated Human Cell Implants Releasing CNTF for Participants with Retinitis Pigmentosa &lt;br&gt;Interactive and Integrated Genetic Databases for the Study of Age-related Macular Degeneration</td>
</tr>
<tr>
<td>P. Hitchcock, Ph.D.</td>
<td>NIH/FFB – Canada RPB</td>
<td>R01-EY007060-20, R01-EY011115-12, T32-EY013934-07</td>
<td>Neuronal Development, Injury and Regeneration in Retina &lt;br&gt;Molecular Mechanisms of Retina-specific Gene Expression &lt;br&gt;Vision Research Training Program &lt;br&gt;Identification and Function of Molecular Cues for Photoreceptor Regeneration in the Vertebrate Retina &lt;br&gt;Senior Scientific Investigator Award</td>
</tr>
<tr>
<td>Faculty Name</td>
<td>Source</td>
<td>ID</td>
<td>Project Title</td>
</tr>
<tr>
<td>-------------------</td>
<td>------------------------</td>
<td>-----------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>B. Hughes, Ph.D.</td>
<td>NIH</td>
<td>P30-EY007003-23</td>
<td>Core Center for Vision Research (five core modules)</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>R01-EY008850-18</td>
<td>Ion Conductances in the Retinal Pigment Epithelium</td>
</tr>
<tr>
<td></td>
<td>RPB</td>
<td></td>
<td>Lew R. Wasserman Award</td>
</tr>
<tr>
<td>M. Johnson, M.D.</td>
<td>NIH/Clinical Trial</td>
<td>U10-EY014351</td>
<td>Standard Care Versus Corticosteroid for Retinal Vein Occlusion (SCORE) Study, Coordinating Center: University of Wisconsin</td>
</tr>
<tr>
<td></td>
<td>Chiltern International/ThromboGenics Inc.</td>
<td></td>
<td>A Randomized, Placebo-controlled, Double-masked, Multicenter Trial of Microplasmin Intravitreal Injection for Non-surgical Treatment of Focal Vitreomacular Adhesion</td>
</tr>
<tr>
<td></td>
<td>GlaxoSmithKline/Clinical Trial</td>
<td></td>
<td>Study to Investigate Pharmacodynamics, Safety, and Systemic Pharmacokinetics of Pazopanib Eye Drops</td>
</tr>
<tr>
<td></td>
<td>LMRI/Clinical Trial</td>
<td></td>
<td>A Natural History Study of Macular Telangiectasia — The MacTel Study</td>
</tr>
<tr>
<td></td>
<td>Regeneron Pharmaceutical/Clinical Trial</td>
<td></td>
<td>Phase III Study of Efficacy, Safety, and Tolerability of Repeated Doses of Intravitreal VEGF Trap in Subjects with Neovascular AMD</td>
</tr>
<tr>
<td>A. Kahana, M.D., Ph.D.</td>
<td>NIH</td>
<td>K08-EY018689-02</td>
<td>Zebrafish Model for Studying Orbital Development and Disease</td>
</tr>
<tr>
<td>H. Khanna, Ph.D.</td>
<td>NIH</td>
<td>R01-EY007961-21</td>
<td>X-Linked Retinitis Pigmentosa</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>R01-DC009606-01</td>
<td>Olfactory Signaling, Cilia, and Sensory Disorders Subcontract with Jeffrey Martens, Ph.D., Department of Pharmacology, University of Michigan</td>
</tr>
<tr>
<td></td>
<td>FFB</td>
<td></td>
<td>Center for the Study of Retinal Degenerative Diseases Phenotypic Signature Associated with Mutations in Retinitis Pigmentosa GTPase Regulator and Retinitis Pigmentosa 2 - Student Stipend Award</td>
</tr>
<tr>
<td></td>
<td>Midwest Eye-Banks</td>
<td></td>
<td>Ciliary Signaling Cascades in Retinal and Syndromic Ciliopathies</td>
</tr>
<tr>
<td></td>
<td>U-M Center for Rare Disease</td>
<td></td>
<td></td>
</tr>
<tr>
<td>P. Lichter, M.D.</td>
<td>RPB</td>
<td></td>
<td>Unrestricted Grant</td>
</tr>
<tr>
<td></td>
<td>VisionCare Ophthalmic Technologies/ Clinical Trial</td>
<td></td>
<td>VisionCare Ophthalmic Technologies Implantable Miniature Telescope for Central Vision Impairment Associated with Age-related Macular Degeneration and Other Maculopathies</td>
</tr>
<tr>
<td>M. Lipson, O.D.</td>
<td>EyeVis L.L.C.</td>
<td></td>
<td>Stabilizing Myopia by Accelerated Reshaping Technique</td>
</tr>
<tr>
<td>S. Mian, M.D.</td>
<td>NIH</td>
<td>R01-EY14163-01</td>
<td>Femtosecond Laser Posterior Lamellar Keratoplasty Subcontract with Tibor Juhasz, Ph.D., University of California - Irvine</td>
</tr>
<tr>
<td></td>
<td>Fight for Sight, MICHR, Midwest Eye-Banks</td>
<td></td>
<td>Femtosecond Laser-assisted Keratoplasty</td>
</tr>
<tr>
<td>Faculty Name</td>
<td>Source</td>
<td>ID</td>
<td>Project Title</td>
</tr>
<tr>
<td>----------------------</td>
<td>----------------------</td>
<td>----------------</td>
<td>-------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>S. Moroi, M.D., Ph.D.</td>
<td>Merck and Company, Inc.</td>
<td></td>
<td>Merck IISP #31911 Study: Effect of Myocilin Genetic Variants on Intraocular Pressure and Pressure Variation in Sitting and Supine Positions</td>
</tr>
<tr>
<td>D. Musch, Ph.D., M.P.H.</td>
<td>NIH</td>
<td>R21-EY118690-01</td>
<td>Clinical and Quality of Life Insights on Glaucoma from Analyses of CIGTS Data</td>
</tr>
<tr>
<td>C. Nelson, M.D.</td>
<td>Midwest Eye-Banks</td>
<td></td>
<td>Clinicopathologic Correlation Study of Sebaceous Carcinoma of the Ocular Adnexa – Student Stipend Award Medical Student Fellowship</td>
</tr>
<tr>
<td>H. Petty, Ph.D.</td>
<td>NIH</td>
<td>N01-HD-2-3342</td>
<td>Services in Support of the Perinatology Research Branch Subcontract with Wayne State University</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>R01-CA074120-10</td>
<td>Signaling Dynamics of Leukocyte-Tumor Cell Interactions Lipid Raft Microdomains in Neutrophil Function Subcontract, Robert Sitrin, M.D., U-M Medical School</td>
</tr>
<tr>
<td></td>
<td>NIH</td>
<td>R01-AI060983-03</td>
<td>Time-Gated Single Molecule Fluorescence Imaging Translational Research Initiatives Program Grant</td>
</tr>
<tr>
<td>D. Puro, M.D., Ph.D.</td>
<td>NIH, RPB</td>
<td>R01-EY012507-10</td>
<td>Physiology of Retinal Pericytes Senior Scientific Investigator Award</td>
</tr>
<tr>
<td>J. Richards, Ph.D.</td>
<td>NIH, AHAF, Fight for Sight, OVPR Faculty Grants and Awards</td>
<td>R56-EY011671-09</td>
<td>Molecular Genetics of Glaucoma and Related Disorders Genetic Risk Factors and Glaucoma Outcomes Sequence Variants in CLCN3 and the Associated Risk of Glaucoma – Student Fellowship Shared Core Equipment</td>
</tr>
<tr>
<td>R. Shtein, M.D.</td>
<td>NIH, MICHR, OVPR Faculty Grants and Awards, U-M Medical School</td>
<td>K23-EY017885-02</td>
<td>Neovascularization Patterns in Corneal Graft Rejection Pathogenesis of Idiopathic Dry Eye Evaluation of Growth Factors in Tears of Patients with HSV Keratitis Clinical Sciences Scholars Program Award</td>
</tr>
<tr>
<td>J. Stein, M.D.</td>
<td>NIH</td>
<td>K23-EY019511-01</td>
<td>Association between Cataract Surgery and Progression of Diabetic Retinopathy Mentoring for Advancement of Physician-Scientist Enabling Award Program Racial Disparities in the Care of Elderly Americans with Glaucoma Longitudinal Rates of Postoperative Adverse Outcomes after Glaucoma Surgery among Medicare Beneficiaries 1994-2005 Monitoring of Patients for Ocular Side Effects of Corticosteroids</td>
</tr>
</tbody>
</table>
## GRANTS

<table>
<thead>
<tr>
<th>Faculty Name</th>
<th>Source</th>
<th>ID</th>
<th>Project Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Sugar, M.D.</td>
<td>NIH/Clinical Trial</td>
<td>U10-EY12358</td>
<td>Cornea Donor Study, Coordinating Center: Jaeb</td>
</tr>
<tr>
<td></td>
<td>NIH/Clinical Trial</td>
<td>R01-EY016482</td>
<td>A Multi-Center Study to Map Genes for Fuchs Dystrophy Coordinating Center: Case Western Reserve University</td>
</tr>
<tr>
<td></td>
<td>Lux Biosciences, Inc.</td>
<td></td>
<td>A Randomized Dose-Ranging Study to Assess the Efficacy and Safety of LX201 for Prevention of Corneal Allograft Rejection Episodes and Graft Failure following Penetrating Keratoplasty</td>
</tr>
<tr>
<td>D. Thompson, Ph.D.</td>
<td>FFB</td>
<td></td>
<td>Center for the Study of Retinal Degenerative Diseases</td>
</tr>
<tr>
<td></td>
<td>FFB</td>
<td></td>
<td>Consortium Treatment Grant: Small Molecular Interventions</td>
</tr>
<tr>
<td></td>
<td>Midwest Eye-Banks</td>
<td></td>
<td>Merck Signaling in RPE Phagocytosis — Student Stipend Award</td>
</tr>
<tr>
<td></td>
<td>RPB</td>
<td></td>
<td>Visual Cycle Defects in Inherited Retinal Degeneration — Senior Scientific Investigator Award</td>
</tr>
<tr>
<td>J. Trobe, M.D.</td>
<td>University of Utah</td>
<td></td>
<td>Proteomics and Genomics of Giant Cell Arteritis</td>
</tr>
<tr>
<td></td>
<td>American Geriatrics Society</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Zacks, M.D., Ph.D.</td>
<td>NIH</td>
<td>K08-EY14705-05</td>
<td>Apoptosis in Retinal Detachments</td>
</tr>
<tr>
<td></td>
<td>FFB</td>
<td></td>
<td>Center for the Study of Retinal Degenerative Diseases</td>
</tr>
<tr>
<td></td>
<td>FFB</td>
<td></td>
<td>Consortium Treatment Grant: Transplantation of Photoreceptor Precursors</td>
</tr>
<tr>
<td></td>
<td>IRRF</td>
<td></td>
<td>Control of Photoreceptor Apoptosis</td>
</tr>
<tr>
<td></td>
<td>Midwest Eye-Banks</td>
<td></td>
<td>Intravitreal Linezolid in Rabbits: an Electrophysiologic and Histopathologic Analysis</td>
</tr>
<tr>
<td></td>
<td>Midwest Eye-Banks</td>
<td></td>
<td>Small Molecule Inhibitors of Photoreceptor Apoptosis</td>
</tr>
</tbody>
</table>

**Source Abbreviations**
- AHAF – American Health Assistance Foundation
- FFB – Foundation Fighting Blindness
- IRRF – International Retinal Research Foundation
- LMRI – Lowy Medical Research Institute
- MICHRI – Michigan Institute for Clinical and Health Research
- NIH – National Institutes of Health
- OVPR – Office of the Vice President for Research, University of Michigan
- RPB – Research to Prevent Blindness
A Tale of Two Towers
Building for a New Era of Discovery

The W.K. Kellogg Eye Center opened its doors in 1985, beginning a period of rapid growth and discovery.

Clinicians were able to see many more patients, and, with vision research scientists now in the same location, the faculty had many opportunities to exchange ideas that would bring advanced care and treatments to our patients. By the mid-1990s, it was apparent that the Kellogg Eye Center was about to enter another period of expansion. Several national studies indicated that the U.S. population was growing older and would need medical care for age-related diseases, such as glaucoma and macular degeneration. In Michigan, the number of residents over the age of 65 was projected to increase by 52 percent by 2025. It was time to think about a new building.

1999 May
The Department completes a study on the anticipated growth of our patient population and concludes that the Eye Center will outgrow its current space within 10 years.

1999 December 17
The first gift for the Kellogg Eye Center expansion is given by Mary June and the late Dr. William Wilkinson.

2005 July 21
The University Board of Regents approves the construction of an expansion to the existing U-M Kellogg Eye Center, with two floors devoted to the new Delores S. and William K. Brehm Center for Type 1 Diabetes Research and Analysis.

2006 September 19
Groundbreaking Ceremony features President Mary Sue Coleman and other University and Health System leaders, as well as a “full house” of faculty, staff, and friends.

2007 November 6
Topping Out celebrates completion of the major structural steel work. Before the ceremony, faculty, staff, friends, and construction crew sign the last beam to be placed.

U-M President Mary Sue Coleman speaks at the Groundbreaking Ceremony.
2008 July
Construction continues and by July the building takes on a more finished look as brick, cast stone, and glass and metal panels are installed on the building exterior.

2008 October 3
Alumni tours of the building take place during Fall Reunion Weekend.

2010 March
Clinics scheduled to make the move from the “old” to the new building, which will be named the Brehm Tower.

April 23-24
Celebratory symposium, Dedicated to Discovery, features leading ophthalmologists on advances in eye care.

April 23
Save this date for the Dedication Ceremony, followed by a reception and tours of the Kellogg Eye Center Expansion and Brehm Center.
It is always an event when alumni return to the U-M Kellogg Eye Center, whether for Fall Reunion Weekend or one of our CME programs. Alumni form a community of colleagues who readily share their knowledge and experience with each other and with current trainees and recent graduates.

Our alumni have provided leadership on new program initiatives, with a special focus and fondness for residency education. They stepped up to provide critical support for the Harold F. Falls Collegiate Professorship, inaugurated in 2003, and now they are turning their attention to creating the new Resident Education Center and establishing the Terry J. Bergstrom Collegiate Professorship to honor a longtime friend and colleague.

We have 450 members in our alumni group, and they are the best ambassadors that any Department could wish to have. And they always seem to have a good time when they return to Ann Arbor.
OUR MISSION

TO SOLVE THE PUZZLES OF BLINDING EYE DISEASE,
TO IMPROVE THE QUALITY OF LIFE FOR OUR PATIENTS,
AND TO TEACH THE NEXT GENERATION OF VISION
SCIENTISTS AND CLINICIANS

Executive Officers of the University of Michigan Health System
Ora Hirsch Pescovitz, M.D.
Executive Vice President for Medical Affairs
Douglas L. Strong, M.B.A.
Director and CEO, University of Michigan Hospitals and Health Centers
James O. Woolliscroft, M.D.
Dean, University of Michigan Medical School

The Regents of the University of Michigan
Julia Donovan Darlow, Ann Arbor; Laurence B. Deitch, Bingham Farms;
Denise Ilitch, Bingham Farms; Olivia P. Maynard, Goodrich;
Andrea Fischer Newman, Ann Arbor; Andrew C. Richner, Grosse Pointe Park;
S. Martin Taylor, Grosse Pointe Farms; Katherine E. White, Ann Arbor;
Mary Sue Coleman, Ph.D., ex officio

Editors: Betsy Nisbet, Randy Wallach
Writers and Editorial Assistants: Aimee Bergquist, Lisa Burkhart,
Margaret Ann Cross
Design: David Murrel
Photographers: Scott Galvin, Scott Soderberg, Austin Thomason,
Martin Vloet: U-M Photo Services; Lin Goings, Robert Prusak:
U-M Department of Ophthalmology and Visual Sciences

For additional copies of this report, please contact us at:
University of Michigan
Department of Ophthalmology and Visual Sciences
W.K. Kellogg Eye Center
1000 Wall Street
Ann Arbor, Michigan 48105
734.647.5586
www.kellogg.umich.edu