UI team discovers new inherited eye disease

University of Iowa researchers have found the existence of a new, rare inherited retinal disease. Now the search is on to find the genetic cause, which investigators hope will increase understanding of more common retinal diseases. The findings appeared in the Nov. 9 issue of the *Archives of Ophthalmology*.

The macula, located within the retina, is an area of high-resolution central vision that is needed to read or drive, for example. This area is damaged in more common retinal conditions such as macular degeneration and can be damaged by diabetes.

“It is rare to find a new inherited eye disease that affects the macula. We thought we had seen them all,” said the study’s lead author Vinit Mahajan, MD, PhD, assistant professor of ophthalmology and visual sciences at the UI Roy J. and Lucille A. Carver College of Medicine (pictured). “This newly found retinal disease causes abnormal blood vessels in the macula, and these vessels are prone to bleeding. This causes swelling or scars that ‘black out’ or blur parts of the field of vision,” said Mahajan, who also is a retinal specialist with UI Hospitals and Clinics.

The finding came about when one person in a family in the United States sought care for eye problems. “If a doctor saw

Fifteen UI ophthalmology physicians among “Best Doctors in America”

The UI Department of Ophthalmology and Visual Sciences has 15 physicians among the 2009-10 “Best Doctors in America”. This year’s list includes Wallace Alward, H. Culver Boldt, Keith Carter, Arlene Drack, James Folk, Kenneth Goins, A. Tim Johnson, Randy Kardon, Young Kwon, Vinit Mahajan (newly added), Thomas Oetting, Stephen Russell, Edwin Stone, Michael Wall, and Thomas A. Weingeist.
just one family member, they would probably call this macular degeneration. We knew there was something different, and we had to examine the rest of the family,” Mahajan said.

The team assessed 20 extended family members who were not blind but had visual problems of different severities. Some family members also had areas of central vision loss, and some family members had strabismus, a disorder in which the eyes are not aligned.

The UI researchers have presented their findings at international meetings of retinal specialists in Arizona, Florida and London. The investigators are now working with researchers worldwide to determine if other people have this particular disease. “Through our paper and by sharing pictures of what the affected eye looks like, we hope to find more people affected,” Mahajan said. “We also will work to find the gene that causes the condition. This information could be very useful in eventually preventing or treating this and other diseases that affect the macula.” The advanced genetics research capabilities at the UI Carver Family Center for Macular Degeneration increase the likelihood of finding a gene, Mahajan said.

The study’s senior author was Edwin Stone, MD, PhD, Howard Hughes Medical Institute investigator and professor of ophthalmology and visual sciences. Stephen Russell, MD, professor of ophthalmology and visual sciences, also contributed to the study.

The study was supported in part by grants from the Foundation Fighting Blindness and Research to Prevent Blindness.

University of Iowa climbs in peer survey

Results of the 2009 Ophthalmology Times Best Programs survey are out. The University of Iowa climbed in the rankings and remains among the best in the country. Survey marks include

- 5th Best Overall (was 8th)
- 4th Best Clinical (Patient Care) (was 8th)
- 4th Best Residency Program (was 4th)
- 6th Best Research (was Honorable Mention)

The University of Iowa was also recently featured among the publication’s “Clinical Centers of Excellence”.

June 17-18 set for Iowa Eye Association Meeting

Ophthalmologists and department alumni are encouraged to attend the Iowa Eye Association Annual Meeting this year in Iowa City. This year’s meeting features outstanding lecturers, including:

- Joel S. Schuman, MD, University of Pittsburgh Medical Center (Wolfe Foundation Lecture)
- Albert Maguire, MD, Scheie Eye Institute, University of Pennsylvania (Alson E. Braley Lecture)

Socialize with colleagues during the Thursday poker tournament and Friday evening banquet. More information and registration may be found online at http://webeye.ophth.uiowa.edu or by contacting Pat Zahs at 319-356-4475 or patricia-zahs@uiowa.edu
First in the nation for DMEK graft procedure

The Iowa Lions Eye Bank (ILEB) recently became the first eye bank in the nation to prepare tissue grafts for Descemet’s Membrane Endothelial Keratoplasty (DMEK), a corneal transplantation procedure used by surgeons across the country.

For many years, doctors used a technique known as a full-penetrating keratoplasty. This procedure involved transplanting the entire cornea. ILEB staff are now able to remove and prepare a single layer of cells from a donor cornea for use in transplantation. Replacing only the tissue that is failing means the recipient is able to keep more of their existing cornea. This allows for improved and expedited visual outcomes. According to ILEB Medical Director, Kenneth Goins, MD, “The future of endothelial keratoplasty is promising because early DMEK results are showing best corrected visions of 20/25 or better in 75 percent of eyes (Ham, 2009)” The new procedure has the potential to help the roughly 40,000 patients who receive cornea transplants each year.

If you would like to receive more information on this new and innovative procedure, please call the Iowa Lions Eye Bank at 319-356-2871.

Reference

Helping Iowa’s troops fulfill their mission

Soldiers face a challenging environment and a number of risks associated with wearing glasses and contacts while fulfilling their duties in Iraq and Afghanistan. For some, laser correction surgery offers a way to minimize these risks and equip soldiers to more effectively and safely accomplish their mission.

Physicians from the UI Cornea and External Diseases service participated in “Sight for Soldiers”, a statewide effort coordinated by the Iowa Academy of Ophthalmology that provides discounted rates on laser correction surgery to Iowa National Guard soldiers who are scheduled to deploy to Iraq and Afghanistan.

University of Iowa Hospitals and Clinics is one of several ophthalmology practices across the state participating in the program. “We are pleased to help support our troops in this way, particularly knowing that the surgery will offer increased safety in their combat duties in Afghanistan and will be of lasting visual benefit to them when they return to civilian life,” said Michael Wagoner, MD, PhD, professor of ophthalmology.

Pfc. Abraham Saleh being evaluated for and undergoing laser correction surgery by Dr. Michael Wagoner.
Spotlight on education

Department releases new video presentation system

Many alumni and members of the Iowa Eye Association expressed an interest in accessing educational and meeting content via the Internet. We listened and are pleased to offer a website that provides a wealth of content available from the department of ophthalmology and visual sciences. A website has been created which offers access to OKAP review lectures, BCSC lectures, Clinical Conference presentations, Iowa Eye Association Meeting presentations, and more.

Users of the site are able to simultaneously view Powerpoint lectures, video and audio streams of presenters, and notes that correspond to each presentation. The Ophthalmology Video/Imaging Content Management System website can be found at http://eyevideo.ophth.uiowa.edu

Use is complimentary for alumni and members of the Iowa Eye Association but individuals will need to request an account and password in order to access the website. Registration is available on-line at http://eyevideo.ophth.uiowa.edu

Give it a try and let us know what you think!

Eyerounds hits century mark

The free educational portal for ophthalmologists and ophthalmologists-in-training, EyeRounds.org, reached a milestone in January 2010. The popular website, which receives nearly 5,000 visits per week from around the world, has posted several new cases bringing the total number of available cases and tutorials past 100. New content includes cases about Recurrent Neuroretinitis, Iris-Ciliary Body Melanoma, Orbital Cellulitis in a Child, Silent Sinus Syndrome, and the first in a series of cases about gene-associated eye diseases. Check out all the latest content at: http://www.eyerounds.org

Thank you to the Iowa Eye Association for their continued support of the education mission of the University of Iowa Department of Ophthalmology and Visual Sciences.
Research news

NIH access will aid glaucoma genetics research at UI

A University of Iowa research team was recently awarded access to the genotyping resources at the Center for Inherited Disease Research, which is supported by 14 institutes of the National Institutes of Health.

The access -- valued at more than $750,000 -- gives a boost to UI research to find genetic factors associated with glaucoma. The access will dramatically accelerate the speed with which the team, led by John Fingert, MD, PhD, assistant professor of ophthalmology, can achieve its goal of finding new glaucoma genes.

Other participating UI investigators are Todd Scheetz, PhD, in ophthalmology and visual sciences; Jian Huang, PhD, in statistics and actuarial science; and Kai Wang, PhD, in biostatistics.

In addition, the project involves the Ocular Hypertension Treatment Study and investigators at Washington University.

Glaucoma is the second leading cause of irreversible blindness in the United States and the leading cause among African-Americans.

To learn more about genetic research of glaucoma at UI visit: http://webeye.ophth.uiowa.edu/GlaucomaCenter

Interdisciplinary approach to retinal disease gene identification receives ARRA funding

University of Iowa researchers were awarded $667,195 through The American Recovery and Reinvestment Act (ARRA) for a project seeking to identify the genes that cause human retinal degeneration. Research will be led by Val Sheffield, MD, PhD, professor of pediatrics and ophthalmology, and involve Markus Kuehn, PhD, assistant professor of ophthalmology and visual sciences, and colleagues from the UI Center for Bioinformatics and Computational Biology. Dr. Sheffield is a Howard Hughes Medical Institute investigator and holds the Martin and Ruth Carver Chair in Genetics.

The project specifically seeks to identify genes that cause a syndromic form of photoreceptor degeneration known as Bardet-Biedl Syndrome, as well as autosomal recessive retinitis pigmentosa.

Research to Prevent Blindness renews UI support

Research to Prevent Blindness has awarded a $100,000 grant to support University of Iowa Department of Ophthalmology and Visual Sciences research aimed at understanding, preventing and treating blinding diseases such as macular degeneration and glaucoma. To date, Research to Prevent Blindness has awarded the department grants totaling more than $3.5 million in research support to UI investigators.

SUPPORTED BY Research to Prevent Blindness
Hancher world premiere explores blindness

A unique collaboration involving University of Iowa Hancher Auditorium, the Carver Family Center for Macular Degeneration, the Carver College of Medicine Writing Program and other campus units culminated in the world premiere of *Eye Piece* in February. UI graduate and renowned theater artist Rinde Eckert led the audience on a journey into the world of blindness and vision loss.

The project involved interviews with physicians, vision researchers and other faculty, as well as individuals and families impacted by vision loss and blindness. Related events included a panel discussion about the creation of *Eye Piece* and a public forum discussing the impact of vision loss.

Funding for the project came from the Association of Performing Arts Presenters through its Creative Campus Innovations Program, a component of the Doris Duke Charitable Foundation. Hancher was one of only eight presenters to receive the grant which is intended to integrate artistic programming with the academic environment on campus.

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Online challenge driving innovation in eye disease detection

Researchers at the Department of Ophthalmology and Visual Sciences led an international competition aimed at helping patients with diabetes through improving computer detection of diabetic retinopathy. Diabetic retinopathy is a leading cause of blindness in the U.S. and Europe, and most visual loss and blindness from diabetic retinopathy is preventable through early diagnosis or screening.

The Retinopathy Online Challenge (ROC), an online competition, pitted teams of scientists against each other in the development of the best automated methods used in the detection of microaneurysms in retinal images. Twenty-three groups of researchers across the world participated.

The manuscript with the methods and results of the competition was published in the scientific journal *IEEE Transactions for Medical Imaging.*

This year’s winner, Gwénolé Quellec, PhD, is a post-doctoral researcher at the University of Iowa, and was recognized at last year’s SPIE: Medical Imaging 2009 Conference in Orlando, Florida.

Additional ROC competitions are expected to be held in the future. More information at: [http://roc.healthcare.uiowa.edu](http://roc.healthcare.uiowa.edu)

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*Reference*

When Robert Murphy experienced irritation in his left eye for what he thought was a simple scratch a few years ago, little did he know that it would lead to receiving eye care several hours away from his home in Hastings, Nebraska. Mr. Murphy consulted with several eye care providers in his area and was treated locally. However, his vision progressively worsened and he was ultimately referred to University of Iowa Hospitals and Clinics for treatment.

Mr. Murphy was diagnosed with fusarium keratitis and treated by several vision specialists, eventually receiving a cornea transplant in his left eye that vastly improved his vision to 20/30. Vision in his right eye was improved as well when he elected to have a cataract removed at the University of Iowa.

The comprehensive and compassionate care that Mr. Murphy received led him to support the sight-saving work of the University of Iowa’s eye clinic through a philanthropic gift of $10,000. Mr. Murphy’s generous donation will support research involving corneal diseases and inflammation of the eye. Funds allow physicians and researchers to evaluate and develop treatment protocols with the potential to improve outcomes for patients in the future.

“I was impressed by the phenomenal people and availability of services at the University of Iowa),” said Murphy. “After getting to know Dr. Goins and the other physicians, I realized that they are really there to help people. I’ve been through a difficult period while regaining my vision but enjoy being able to offer this gift as a ‘thank-you’ for the care I am receiving.”

Giving back to help others

There is something you can do

The University of Iowa Department of Ophthalmology and Visual Sciences is proud to be recognized as one of the best eye care and research programs in the country. Private support allows us to sustain and increase our margin of excellence in patient care, education and research in ophthalmology and the visual sciences. If you are interested in supporting our mission, please visit: www.givetoiowa.org/eye

For information about how your contribution can have an impact, please contact:

Mitch Beckman
Executive Director of Development
UI Foundation
800-648-6973 or mitch-beckman@uiowa.edu

Foundation grant boosts Stargardt Disease research

Researchers at the University of Iowa Carver Family Center for Macular Degeneration are seeking the underlying causes and potential treatments for a number of inherited retinal diseases. Efforts were recently boosted thanks to an anonymous foundation gift of $300,000 for research related to Stargardt Disease. The gift will be spread over a three year period and is immediately being put to use.

The most common form of inherited juvenile macular degeneration, Stargardt Disease, is caused by the death of photoreceptor cells in the central portion of the retina called the macula. Decreased central vision is a hallmark of the disease which typically develops during childhood and adolescence.

Of the five teams working in UI’s Molecular Ophthalmology Laboratory on a variety of projects and diseases, one is dedicated to Stargardt Disease research. Finding genetic information, treatments, cures and preventions for Stargardt is a top priority. Researchers, scientists and clinicians have been compiled from a variety of areas, including ophthalmology, genetics, bioinformatics and computational biology, biomedical engineering, computer engineering and physiology. This interdisciplinary team approaches their work and the disease with a very unique mindset, adhering to the philosophy that the pursuit of a worthy goal in a collaborative fashion is a more efficient and enjoyable way to work. The result is greater total progress than if each member works alone.

Philanthropic support from private sources effectively leverages research grants provided by public sources such as the National Institutes of Health. This continuity of funding is incredibly important to sustaining the work of the Ophthalmology Program at the University of Iowa and is always appreciated.
**Photophobia study awarded Carver Trust funding**

Randy Kardon, MD, PhD, professor of ophthalmology and Pomerantz Family Chair in Ophthalmology, is collaborating with Andrew Russo, PhD, professor of molecular physiology and biophysics, and Ana Recober-Montilla, MD, assistant professor of neurology, to examine a potential mechanisms associated with photophobia in traumatic brain injury.

Their project was one of three to receive a Carver Trust Collaborative Pilot Grant from the Carver College of Medicine and the Roy J. Carver Charitable Trust. The grant provides seed funding for novel pilot collaborative research, allowing investigators to gather preliminary data that supports extramural grant submission.

The group hopes to answer the question: “Is the neuropeptide CGRP involved in the pathogenesis of photophobia in traumatic brain injury?” They will look at calcitonin gene-related peptide (CGRP), the major neuropeptide of the trigeminal nerve which has been implicated in animal models of photophobia.

Photophobia is a debilitating disorder that occurs as both a primary symptom and in association with other conditions such as migraine. Headache and photophobia are common debilitating symptoms, and the pathophysiology is not understood. In recent years, there has been a large increase in the occurrence of photophobia with at least 50% of patients with traumatic brain injury experiencing light sensitivity, including many veterans exposed to blast injury.

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**Event showcases vision research**

Residents, fellows, orthoptic trainees, medical students, and other scholars had a chance to showcase their research interests at the 2010 Resident/Fellow Research Day. Twelve papers and 14 posters were presented. Awards for outstanding research will be announced at the Iowa Eye Annual meeting in June. Paper and poster abstracts may be viewed at [http://webeye.ophth.uiowa.edu/dept/resfelo/ResDay2010/](http://webeye.ophth.uiowa.edu/dept/resfelo/ResDay2010/)

Guest judges included Sudeep Pramanik, MD (’05R, ’06F), David Dueker, MD, and John Sulphin, Jr., MD.

Posters were viewed by Research Day guests and participants.

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**Reed recognized by State Board of Regents**

The Board of Regents of the State of Iowa annually recognizes staff for outstanding accomplishments and contributions to the Regents institutions as well as the State of Iowa. Cynthia Reed, RN, PhD, Executive Director of the Iowa Lions Eye Bank, was one of only six individuals to receive a 2009 State Board of Regents Staff Excellence Award.

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**Departure**

Karen M. Gehrs, MD, professor of ophthalmology, left to pursue a private practice opportunity in Lakeland, Florida. A UI faculty member since 1996, Dr. Gehrs was with the Vitreoretinal Diseases and Surgery Service.
The University of Iowa was pleased to feature George L. Spaeth, MD, Wills Eye Institute, as the 7th Armaly Lecturer at the Clinical Conference in February. The Mansour F. Armaly Lectureship honors Dr. Armaly’s contributions as a clinician-scientist who devoted his career to the study and care of patients with ocular hypertension and glaucoma.

Members of Iowa’s Glaucoma Service pause for photograph with Dr. Spaeth (center)

The mission of the University of Iowa Department of Ophthalmology and Visual Sciences is to provide the highest quality, accessible and cost-effective patient care while contributing to the global effort to alleviate all diseases of the eye through teaching and research.

H. Culver Boldt, MD, was named the Marion S. and Frederick H. Fuerste MD, Professor in Ophthalmology. Dr. Boldt directs the ocular echography service and is professor of ophthalmology in the Vitreoretinal Diseases and Surgery Service.

Jean E. Robillard, MD, UI vice president for medical affairs, Hunter Fuerste, MD (’82MD), H. Culver Boldt, MD, Keith D. Carter, MD

**7th Armaly Lecturer**

**Boldt named to Fuerste Professorship**

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**Department of Ophthalmology and Visual Sciences**

**Comprehensive Eye Care and Cataract Clinic**
- A. Timothy Johnson, MD, PhD
- Anna S. Kitzmann, MD
- Thomas A. Oetting, MD

**Cornea and External Disease, and Refractive/Laser Surgery**
- Kenneth Goins, M.D.
- Anna S. Kitzmann, MD
- Michael D. Wagoner, MD, PhD

**Echography**
- H. Culver Boldt, MD

**Glaucoma**
- Wallace L.M. Alward, MD
- John H. Fingert, MD, PhD
- Young H. Kwon, MD, PhD

**Inherited Eye Diseases**
- Arlene V. Drack, MD
- Vinit B. Mahajan, MD, PhD
- Edwin M. Stone, MD, PhD

**Vision Rehabilitation Service**
- Mark E. Wilkinson, OD

**Neuro-Ophthalmology**
- Randy H. Kardon, MD, PhD
- Reid A. Longmuir, MD
- Michael Wall, MD

**Ocular Oncology Service**
- H. Culver Boldt, MD
- Thomas A. Weingeist, PhD, MD

**Oculoplastics and Orbital Surgery**
- Richard C. Allen, MD, PhD
- Keith D. Carter, MD

**Ophthalmic Photography**
- Tracy Aly, COA, CRA

**Pediatric Ophthalmology/Adult Strabismus**
- Arlene V. Drack, MD
- Susannah Longmuir, MD
- Richard J. Olson, MD
- Stephen F. Stasheff, MD, PhD

**Uveitis**
- Nasreen A. Syed, MD

**Vascular Disease of the Eye**
- Sohan S. Hayreh, MD, PhD, DSc

**Vitreoretinal Diseases and Surgery**
- H. Culver Boldt, MD
- James C. Folk, MD
- Vinit B. Mahajan, MD, PhD
- Stephen R. Russell, MD
- Edwin M. Stone, MD, PhD
- Thomas A. Weingeist, MD, PhD

**Research**
- Michael D. Abràmoff, MD, PhD
- Chris A. Johnson, PhD
- Markus H. Kuehn, PhD
- Robert F. Mullins, PhD

**Other Faculty**
- Patricia A. Kirby, MD (Pathology)
- Stephen A. Kuusisto, MFA (English)
- Val C. Sheffield, MD, PhD (Pediatrics, Medical Genetics)
- Michael G. Anderson, PhD (Physiology)
- Terry A. Braun, PhD (Biomedical Engineering)
- Thomas L. Casavant, PhD (Bioinformatics, Computational Biology)
- William J. Kimberling, PhD (Visiting Professor, Genetics)
- Todd E. Scheetz, PhD (Bioinformatics, Computational Biology)
- Milan Sonka, PhD (Electrical and Computer Engineering)

**Emeritus**
- Sohan Singh Hayreh, MD, PhD, DSc
- G. Frank Judisch, MD
- Hansjoerg E.W. Kolder, MD, PhD
- Karl C. Ossoinig, MD
- Edward S. Perkins, MD, PhD
- William E. Scott, MD
- John E. Sutphin, Jr., MD
- H. Stanley Thompson, MD

**Contact Information:**
- Ophthalmology Scheduling: (319) 356-2852
- Pediatric Ophthalmology Scheduling: (319) 356-2859
- General Information: (319) 356-2864
- [http://webeye.ophth.uiowa.edu](http://webeye.ophth.uiowa.edu)
- iowaeyecare@uiowa.edu
Gaining business insight from alumni

Alumni roundtable sessions are allowing Iowa’s trainees a chance to learn more about private practice and the field of ophthalmology.

Alumni and medical students connect through volunteer program

The UI Carver College of Medicine offers a unique way for alumni to support the educational pursuits of medical students from the University of Iowa. The HOST program (Help Our Students Travel) matches fourth-year medical students with alumni who volunteer to host students in their homes during residency interviews around the country. The program is a wonderful resource for students to help relieve some of the costs they incur during their final year of medical school. Alumni also offer valuable advice and insight on their medical specialties, the regional medical community and local community as a prospective new location for the student.

Special thanks to Ophthalmology alumni who participated as hosts in 2009: Michael Bloome, MD (‘72MS, ‘72R), Kathleen Digre, MD (‘81MD, ‘85R-Neurology, ‘87F), Richard Munson, Jr., MD (‘72MD, ‘80F), and Jeffrey Nerad, MD (‘85F).

For more information, call 877-MED-IOWA

If you are an alumnus who has received a special distinction or have changed your contact information, let us know.

Email us at iowaeyecare@uiowa.edu
Alumni gather for Iowa reception

Alumni and friends of the department gathered at the Westin St. Francis in San Francisco to enjoy the Iowa Eye Association Alumni Reception at the 2009 American Academy of Ophthalmology Annual meeting.

Carter discusses eye diseases with California alumni

Kee D. Carter, MD, professor and department head, presented a health seminar for alumni and friends of the University of Iowa in Coronado, California. The presentation provided an overview of common eye diseases and showcased how the University of Iowa is addressing the growing public health concern of eye diseases through compassionate patient care, excellence in education and collaborative, leading-edge vision research.
Join us in Iowa City for our Clinical Conference Series where we explore and discuss relevant and interesting clinical topics in Ophthalmology. Check our web site for the latest dates, topics, and registration information: [http://tinyurl.com/UiowaClinConf](http://tinyurl.com/UiowaClinConf)

**The 2010-2011 Clinical Conference Series includes:**

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12th Annual Iowa Optometric Conference, Iowa City
ARVO Annual Meeting, Fort Lauderdale
UI Carver College of Medicine Alumni Reunion (Classes of ’50, ’55, ’60, ’65, and ’70), Iowa City
Resident and Fellow Graduation, Iowa City
Iowa Eye Association Annual Meeting, Iowa City (details inside)
Iowa Eye Nurse/Technician Conference, Coralville
UI Carver College of Medicine Alumni Reunion (Classes of ’75, ’80, ’85, ’90, and ’00), Iowa City
UI Homecoming Reunion Weekend, Iowa City
AAO – MEACO Joint Meeting, Chicago
Iowa Eye Association Alumni Reception, AAO Annual Meeting, Chicago (details inside)