Havener Eye Institute
This report covers the period July 1, 2005 through June 30, 2006

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The Ohio State University
Havener Eye Institute
Ophthalmology Outreach
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Columbus, Ohio 43210
Phone: (614) 293-9161
www.eye.osu.edu

Chairman: Thomas Mauger, M.D.
Administrator: Robert LaFollette, M.B.A
Outreach Director: Laura Sladoje
Creative Director: Crystal Mason
Photography provided by the Outreach office

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CHAIRMAN’S LETTER

Dear Friends:

The Department of Ophthalmology continues to enjoy success in the area of medical education. The Med II module as well as the Med III/IV Clerkship are rated highly by the medical students. We continue to recruit strong residency classes with the average board scores of our last residency class at 212- on Step 1. Two out of the four graduating residents are advancing to academically based fellowships. In collaboration with the Medical Center, the department has been able to acquire the first cataract surgery simulator in the United States allowing residents and fellows to improve their surgical skills in a safe environment. The Department’s Annual Postgraduate Symposium continues to be one of the most highly rated CME events in the medical center. This year’s program had 140 attendees from 9 states. Our clinical fellowship program is now composed of four fellowships, which are offered in Cornea/External Disease and Refractive Surgery, Neuro-Ophthalmology and Oculoplastic Surgery, Glaucoma, and Vitreoretinal Disease and Surgery.

The department has initiated collaboration with the human genetics program to start an ocular genomics program. We are in the process of offering an endowed chair to an esteemed scientist in the field of glaucoma and continue to participate in numerous (18) clinical trials in all areas of ophthalmology many of these are sponsored by NIH and NEI funding. We have added a glaucoma specialist and retinal specialist to the program and are planning on the addition of another Vitreoretinal surgeon in the coming year.

Our department endowment continues to grow through the generosity of its alumni, grateful patients, and friends. We will begin to plan for a new Eye and Ear Institute to house our growing department.

The department continues to support the educational, clinical, and research mission of The Ohio State University Medical Center.

Sincerely,

Thomas F. Mauger, M.D.
Associate Professor and Chairman
Department of Ophthalmology
The Carl & Grace Baldwin Chair
The Havener Society was established in the late 1980s by the students of William Havener to perpetuate the principles and high standards that he set for himself and for the students and benefactors of his talents. For four decades, he had a single mission – Ophthalmology. With his keen powers of observation and unique ability to transmit knowledge to others, as an educator, he had no peer. He was directly responsible for the training of over 200 ophthalmologists and thousands of medical students.

William H. Havener, MD, was the first full-time ophthalmologist at The Ohio State University College of Medicine and chair of the Department of Ophthalmology (1959-1961, 1972-1988). A distinguished teacher and internationally known author, Dr. Havener was an innovative and skillful surgeon, a thoughtful citizen and most of all, a considerate and caring physician. His beloved garden was a great joy for him. Dr. Havener believed in planting seeds, watching them grow and sharing his harvest with others. He loved to plant seeds, whether in his garden or by nurturing medical students, residents and faculty.

Anyone who had the privilege of spending time with Dr. Havener, be it as a patient, resident, fellow ophthalmologist, or medical student, has come away richer for the experience.

In conjunction with the Havener Society, we are excited to introduce the Annual Honor Roll. This program will track yearly philanthropic donations to the department, and will recognize donors for various levels of giving. After an individual’s yearly contributions have accumulated to $10,000, members of the Annual Honor Roll will be listed in the Havener Society lifetime recognition program.

Qualifying donations for both the Havener Society and the Annual Honor Roll will be those that support the educational and research mission of the department. This includes money donated for resident and fellow salary support, equipment used by residents and students in clinic, student and resident educational programming, books for the department library, named lectureships, and for the support of chairs and faculty positions.

For more information about qualifying donations or to give to the Havener Eye Institute, please contact Bob LaFollette at bob.lafollette@osumc.edu or 614-293-6980.

The Havener Society has been updated this year to include recognition circles for levels of giving. These circles represent Dr. Havener’s commitment to education and the incremental steps in the education process.
Havener Society
Lifetime Recognition Circles

Havener Circle
$1,000,000 and above
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Grace C Baldwin*
Irene D Hirsch*

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Warner & Patti Blow
Martha Staub*

Faculty Circle
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Dr. William H. Havener*
Dr. Milton C. Oakes*

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Leo Faust*
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Lois Ann Moor
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Dr. Dick Nisbet
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Dr. James Andrew*
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Past Honor Roll

We would like to recognize past donors who have supported our department until December 31, 2005. We have chosen to list them in our Past Honor Roll for their generous support. All donations made in the calendar year 2006 are listed in our Annual Honor Roll.

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<td>Johanna Eleanor Yurko Meara</td>
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Annual Honor Roll

Thank You

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Lisa Williamson
A trust established in 1977 to support vision research at Ohio State has received a final distribution of $7.7 million from the estates of the late Carl and Grace Baldwin. The Baldwins, who were lifelong residents of Columbus, Ohio, created the Carl M. and Grace C. Baldwin Eye Care Fund to advance the study of the eye, causes of blindness, and the restoration of sight.

The trust provided ongoing support for nearly 28 years to the Havener Eye Institute and the Department of Ophthalmology for critical research in vision diseases, patient care, and treatments of blinding disorders. In June, 2002, funds from the Baldwin Eye Care Endowment also created an endowed chair in ophthalmology in the OSU College of Medicine and Public Health. The annual income from the Carl and Grace Baldwin Chair in Ophthalmology provides salary support for a physician specializing in the study of the eye and vision diseases. Thomas Mauger, MD, chair of the OSU Department of Ophthalmology, was appointed to the Baldwin Chair in November, 2004.

“The Baldwins’ commitment to vision research and the treatment of eye disease will allow our department to explore new and innovative areas of research into the causes and treatment of blinding eye disease,” says Mauger. “This legacy is a remarkable tribute to the outstanding physicians who pioneered vision care at Ohio State and their relationship with the Baldwin family.”

The stewardship of the Baldwin trust was passed from Grace and Carl to their niece, the late Betty Watson, of Vero Beach, Florida in 1978. According to Edward Watson, Betty’s husband, Carl Baldwin was always very close to Ohio State and his care at the Medical Center inspired his gift to the University.

“Betty was a graduate of Ohio State and the family always had a great closeness to the University,” he notes. “She wanted Carl’s wishes carried out and it was an affection the entire family felt for Ohio State.” The Watsons both graduated from Ohio State. Carl Baldwin had a lifelong interest in science and technology, Watson adds, and a deep concern about vision and eye problems.
In September 2005, Dr. Bob Chambers and Dr. Tom Mauger headed to Central America to seek possible areas where the Havener Eye Center could find ways to assist efforts already underway to improve and restore Nicaragua’s National Eye Hospital in Managua. The National Eye Hospital is in great need of support as Nicaragua is the second poorest nation in the Western Hemisphere. Nicaraguans typically travel for miles just for a chance to attend the clinic, which is staffed entirely by volunteer physicians. Havener alumni Dr. John Pajka, and Dr. David George have been lending their time and efforts to the hospital for several years, and arranged the details of the trip with Dr. Mauger and Dr. Chambers. These alums along with another alumnus, Dr. Brian Stahl, bring their own equipment and staff to perform procedures, and are now quite accustomed to the Nicaraguan medical community, and the issues facing the system. In addition to their time, they have also donated thousands of dollars to upgrade the facilities.

Assisting and coordinating with the physicians was Noemi Caiazzo, a native of Peru, who acts as a liaison between the Nicaraguan Ministry of Health and mission work that comes to the country. Noemi served as a translator for lectures given by the OSU Faculty, as well as for patients seen by volunteer doctors. Noemi, who has also set up urban and rural mountain area child meal centers, recently spoke at the Havener Annual Postgraduate Symposium in Ophthalmology about opportunities in Ophthalmology Outreach.
On October 15th, the Havener Eye Institute held its annual Alumni Reception at the beautiful Fairmont Hotel in Chicago, Illinois. Past colleagues and faculty from across the U.S. reunited throughout the night while enjoying hors d’oeuvres in the windy city.
The 49th Annual Ophthalmology Postgraduate Symposium was held at the Hilton Columbus at Easton. This two-day event began Friday morning, March 3rd, and concluded Saturday afternoon, March 4th. Physicians from all over the U.S. came to speak about the problem at hand, Age-Related Macular Degeneration (AMD). Speakers included Michael B. Gorin, M.D., Ph.D., Sean Ianchulev, M.D., M.P.H., Ronald Klein, M.D., M.P.H., Tamer H. Mahmoud, M.D., Richard Spaide, M.D., Anthony Adamis, M.D. and dinner speaker Noemi Caiazzo.
The Havener Eye Institute hosted the 1st Annual Golf Classic on May 22, 2006. Buckeye football great Archie Griffin, Director of Alumni Affairs at The Ohio State University was our honorary guest. Archie Griffin was on hand and grouped with our host sponsor Abercrombie & Fitch and their foursome scored an even 72. There wasn’t a cloud in the sky as the 86 golfers teed off at the Golf Club of Dublin. The outing was won with a 14 under par, 58 shot by Doug Baker, Jack Dingle, Jerry Shell, and Tom Dingle. The second place winners were Kevin Beran, Brian Joyce, Robin Beran, and Todd Dowling. The third place winners were Randy McLauglin, Tim McNemar, Ryan Sapp, and Brian Bower. Unfortunately, no one scored a hole-in-one to win the beautiful Cadillac donated by Crestview Cadillac. We would also like to thank our generous hole sponsors; Haag-Streit, Principal Financial, Immke Honda, Parallel Technologies, Milltech, OSU Medical Center, Thomas and Marker Construction, Morgan Stanley, Bausch & Lomb, Heine, Optics Inc., First Place Bank, Artina, HER Realty-Kurt McCurdy and our classic sponsor Abercrombie & Fitch.

This event raised almost $30,000 allowing us to donate nearly $20,000 to resident education and research projects. We would like to thank all of our sponsors for their generosity and support.
Faculty

dedication

knowledge

excellence

strength
Residents & Fellows

Front Row (L to R): Carrie A. Lembach, D.O., Julie Lange, M.D., Kathryn R. Baker, M.D., Amy M. Kopp, M.D.

Back Row (L to R): Jeffrey T. Wincko, M.D., J. Jefferds Sinclair, M.D., J. Garret Mouser, M.D., Kristopher J. Kelly, M.D., Thomas J. Dingle, M.D., Nicholas A. Rogers, M.D., Ryan F. Deasy, M.D.

*Third Year Residents

Ryan F. Deasy, M.D.
Kristopher J. Kelly, M.D.
Amy M. Kopp, M.D.
Nicholas A. Rogers, M.D.

Second Year Residents

Carrie A. Lembach, D.O.
J. Garret Mouser, M.D.
J. Jefferds Sinclair, M.D.
Jeffrey T. Wincko, M.D.

First Year Residents

Kathryn R. Baker, M.D.
Thomas J. Dingle, M.D.
Anne Elbiaadi, M.D.
Julie Lange, M.D.
Matthew P. Ohr, M.D.

The Havener Eye Institute held its’ annual graduation dinner at the Faculty Club on Friday June 23, 2006. All graduates’ families were in attendance. Dr. Chambers served as master of ceremonies and gave a humorous presentation for each graduate filled with family photos. We are proud that two of our graduates will be continuing their education and have accepted fellowships at the Havener Eye Institute.

*These residents completed our three-year Residency program on June 30, 2006

Fellows

Marc R. Criden, M.D. Craig J. Moskowitz, M.D. Timothy Tweito, M.D.
New Faculty

Gloria Fleming, M.D.

Dr. Fleming joined our department in August 2005 as a glaucoma specialist. She comes from Poughkeepsie, New York, where she was in private practice at the Central New York Eye Center.

Dr. Fleming received her Bachelor of Science from Cornell University in Ithaca, New York. Her medical degree is from the State University of New York (SUNY) Upstate Medical Center in Syracuse. She completed her medical internship at Emory University Hospital in Atlanta, Georgia. Dr. Fleming followed with her ophthalmology residency at the Albert Einstein College of Medicine in Bronx, New York, where she served as chief resident. Her glaucoma fellowship training was completed at the State University of New York (SUNY) Downstate Medical Center in Brooklyn. Dr. Fleming attained her board certification in ophthalmology in 1999.

Dr. Fleming was a clinical assistant professor at SUNY Downstate Medical Center, Kings County Hospital, Department of Ophthalmology in Brooklyn. She was also an associate in clinical ophthalmology at Columbia University, College of Physicians and Surgeons, Harlem Hospital Center, Department of Ophthalmology in New York.

Dr. Fleming joined Paul Weber, M.D., and Annette Terebuh, M.D., in the glaucoma service. She will be available at the Havener Eye Institute, Ohio State University Medical Center, 456 West 10th Ave., Columbus, Ohio 43210, Office: 614-293-8119.

Alan Letson, M.D.

Dr. Letson joined our department in January 2006 as a vitreoretinal disease specialist and serves as the Director of Medical Student Education.

Dr. Letson graduated with a B.A. from Miami University in Oxford, Ohio. He received his medical degree from Case Western Reserve University School of Medicine in Cleveland, Ohio. Dr. Letson’s internal medicine internship was completed at St. Luke’s Hospital in Cleveland, Ohio. He then completed his residency in Ophthalmology at The Ohio State University, where he also completed his fellowship in Vitreo-Retinal Disease.

Dr. Letson was board certified in ophthalmology in 1982, and has been on the OSU clinical faculty since 1982. He has been a diligent participant in resident and student education since that time. Additionally, Dr. Letson has a special interest in Diabetic Retinopathy and has taught many courses on this disease. He serves as President Elect of the Central Ohio Diabetes Association, is a board member of the State of Ohio Diabetes Medical Advisory Board, and serves on the State of Ohio Tobacco Use Prevention and Control Foundation Board.

Dr. Letson is available at the Havener Eye Institute, Ohio State University Medical Center, 456 West 10th Avenue, Columbus, Ohio 43210, Office: 614-293-8041, Fax: 614-293-3555. Dr. Letson also sees patients at the Havener Eye Institute, Retina Division, 6805 Avery Muirfield Road, Dublin, Ohio 43016, Office: 614-652-2600, Fax: 614-652-2610.
Faculty Activities

research
teaching
clinical care
**Cybil Bean Cassady, M.D.**

**Lectures and Presentations:**


The Ohio State University lecture series: Pediatric Ophthalmology & Strabismus, 3rd Edition, Author: David Taylor and Creig Hoyt, MD; Chapters 46-48, January 18, 2006; Chapter 7 sections 1-12, March 1, 2006.


**Grants:**

ETROP ATS8 (Co-Inv.), NE $6400; 04/30/2005 – 12/31/2008

NLD2 (Co-Inv.) NEI, $6400; 04/30/2005 – 12/31/2008

**Susan Carleton Benes, M.D.**

**Lectures and Presentations:**

GAD65 Antibodies, Downbeating Nystagmus and Other Systemic Abnormalities: 7/22/05: Paper given to UM-NOG (Upper Midwest Neuro-Ophthalmology Group) at Northwestern University Medical Center

Systemic Diseases in Ophthalmology and Ancillary Tests Used in Making the Diagnoses: 10/18/05: JCAHPO Course at the American Academy of Ophthalmology in Chicago

Seventh Nerve Anatomy, Pathology and Treatments: 2/11/06: Masters Technician Course at the Ohio Ophthalmologic Society Annual Meeting, Easton Hilton, Columbus


Cranial Neuropathies; Systemic Diseases for Ophthalmologists: 3/19/06: 2 lectures given for the Cleveland Ophthalmic Personnel Society Annual Meeting, Cleveland

Neuro-Ophthalmologic Manifestations of Head Trauma: March, 2006: OSU Dept. of Physical Medicine & Rehabilitation Rounds, Dodd Hall, OSU

Susan Carleton Benes, M.D.

Visual Fields Techniques and Interpretation; Triage and Patients with Special Needs: 5/31/06: 2 lectures given to Central Ohio Technicians’ Board Review Course, sponsored by the OOS (Ohio Ophthalmologic Society), OSU Department of Ophthalmology
Susan Carleton Benes, M.D.

Publications:


Non-Funded Research:

Pseudotumor Cerebri: Childhood Streptococcal Infections as a Precursor

Pseudotumor Cerebri: An Uncommon Presentation of CNS Syphilis?

Pseudotumor Cerebri: Numbers of Surgeries and Complications following Nerve Sheath Decompression compared with Shunting as a Primary Procedure

Pseudotumor Cerebri: Prospective Incidence of Chiari Malformations at the Onset and those which follow Diagnosis and Various Forms of Management

Pseudotumor Cerebri: Family Studies of Patients with Abnormal CSF Dynamics

Pseudotumor Cerebri (Intracranial hypertension): Collaboration with IHR (Intracranial Hypertension Registry) in Portland, Oregon

Ocular Myasthenia: Methotrexate (ongoing)

Graves’ Ophthalmopathy: Somatostatin Analog (ongoing)

Appointments/Awards:

Appointed by Governor Taft as the MD Ophthalmologist Board Member of the Ohio Board of Optical Dispensers for a 5 year term April, 2006-2011

Don L. Bremer, M.D.

Lectures and Presentations:

The Ohio State University lecture series: Pediatric Ophthalmology & Strabismus, 3rd Edition, Author: David Taylor and Creig Hoyt, MD; Chapters 51 & 66, January 25, 2006; Sections 1 & 2; Section 5, March 29, 2006.

Grants:

ETROP ATS8 (PI), NE $6400; 04/30/2005 – 12/31/2008

NLD2 (PI) NEI, $6400; 04/30/2005 – 12/31/2008
Robert B. Chambers, D.O.

Lectures and Presentations:

“Clinical Case Presentation” Grand Rounds – October 13, 2005

“Clinical Research Trials” Retina Grand Rounds – November 17, 2005

“Case Presentations” Grand Rounds – February 16, 2006

“Course Director” 49th Annual Postgraduate Symposium in Ophthalmology, March 2-3, 2006

Publications:


Grants:

Principal Investigator, NEI/EMMES, Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and w-3 Fatty Acids in Age-Related Macular Degeneration, 2006-2012

Principal Investigator, Novartis Pharmaceuticals, Randomized, Double-Masked, Sham Controlled, Multi-center, Phase IIIb Study Comparing Photodynamic Therapy with Verteporfin (Visudyne) plus two different dose regimens of Intravitreal Pegaptanib (Macugen) in patients with subfoveal choroidal neovascularization secondary to AMD, 2005-2007

Principal Investigator, Genentech Sailor, Phase IIIb, Multi-center, Study of the safety and tolerability of intravitreal injections of rhuFab V2 (ranibizumab in naïve and previously treated subjects with choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Eyetech/OSI Pharmaceuticals, Phase IV, Open Label, Multi-center Trial of Maintenance intravitreous injections of Macugen given every 6 weeks for 48 weeks in subjects with subfoveal neovascular AMD initially treated with a modality resulting in maculopathy improvement, 2006-2008
Robert B. Chambers, D.O.

Grants: (continued)


Ophthalmologist, Actions to Control Cardiovascular Risk Factors in Diabetes Eye Study (ACCORD), 2004-2008

Co-Investigator, Allergan Pharmaceuticals, Dexamethasone in subjects with central retinal vein occlusion or branch retinal vein occlusion with diabetic macular edema, 2004-2006

Co-Investigator, National Eye Institute, Complications of Age-related Macular Degeneration Trial (CAPT), 1999-2006


Co-Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Observational Study of Diabetic Macular Edema after PRP, 2006-2008


Co-Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Subclinical Diabetic Macular Edema with OCT, 2006-2008


Co-Investigator, Dynamic Contrast Enhanced Magnetic Imaging in Solid Tumors of the Eye and Orbit, 2003-2006

Co-Investigator, Genentech Horizon, An Open-Label, Multicenter Extension Study to Evaluate the Safety and Tolerability of Ranibizumab in Subjects with Subfoveal Choroidal Neovascularization (CNV) Secondary to Age-Related Macular Degeneration (AMD) Who Have Completed the Treatment Phase of a Genentech-Sponsored Ranibizumab Study

Co-Principal Investigator, Genentech Pier, Phase IIIb, Multicenter, Randomized, Double Masked, Sham Injection Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Subfoveal Choroidal Neovascularization (CNV) with or without classic CNV secondary to Age-Related Macular Degeneration, 2004-2006
Robert B. Chambers, D.O.

Grants: (continued)

Principal Investigator, Genentech Focus, Phase I/II, Single-Masked, Multicenter Study of the Safety, Tolerability, and Efficacy of Multiple-Dose Intravitreal Injections of rhuFab V2 in Combination with Verteporfin (Visudyne) Photodynamic Therapy in Subjects with Neovascular Age-Related Macular Degeneration, 2003-2006

Principal Investigator, Genentech Marina, Phase III Multicenter, Randomized, Double Masked, Sham Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Minimally Classic or Occult Subfoveal Neovascular Age-Related Macular Degeneration, 2003-2006

Non-Funded Research:

Genetics of uveal melanoma

Genetics of age-related macular degeneration

Appointments and Awards:

College of Medicine Excellence in Teaching Award

Louis J. Chorich III, M.D.

Lectures and Presentations:


Publications:


Louis J. Chorich III, M.D.

Grants:

Co-Investigator, NEI/EMMES, Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and w-3 Fatty Acids in Age-Related Macular Degeneration, 2006-2012

Co-Investigator, Novartis Pharmaceuticals, Randomized, Double-Masked, Sham Controlled, Multi-center, Phase IIIb Study Comparing Photodynamic Therapy with Verteporfin (Visudyne) plus two different dose regimens of Intravitreal Pegaptanib (Macugen) in patients with subfoveal choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Genentech Sailor, Phase IIIb, Multi-center, Study of the safety and tolerability of intravitreal injections of rhuFab V2 (ranibizumab in naïve and previously treated subjects with choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Eyetech/OSI Pharmaceuticals, Phase IV, Open Label, Multi-center Trial of Maintenance intravitreal injections of Macugen given every 6 weeks for 48 weeks in subjects with subfoveal neovascular AMD initially treated with a modality resulting in maculopathy improvement, 2006-2008


Co-Investigator, Allergan Pharmaceuticals, Dexamethasone in subjects with central retinal vein occlusion or branch retinal vein occlusion with diabetic macular edema, 2004-2006


Co-Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Observational Study of Diabetic Macular Edema after PRP, 2006-2008


Co-Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Subclinical Diabetic Macular Edema with OCT, 2006-2008


**Louis J. Chorich III, M.D.**

**Grants: (continued)**

Co-Investigator, Genentech Horizon, An Open-Label, Multicenter Extension Study to Evaluate the Safety and Tolerability of Ranibizumab in Subjects with Subfoveal Choroidal Neovascularization (CNV) Secondary to Age-Related Macular Degeneration (AMD) Who Have Completed the Treatment Phase of a Genentech-Sponsored Ranibizumab Study

Co-Principal Investigator, Genentech Pier, Phase IIIb, Multicenter, Randomized, Double Masked, Sham Injection Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Subfoveal Choroidal Neovascularization (CNV) with or without classic CNV secondary to Age-Related Macular Degeneration, 2004-2006

Principal Investigator, Genentech Focus, Phase I/II, Single-Masked, Multicenter Study of the Safety, Tolerability, and Efficacy of Multiple-Dose Intravitreal Injections of rhuFab V2 in Combination with Verteporfin (Visudyne) Photodynamic Therapy in Subjects with Neovascular Age-Related Macular Degeneration, 2003-2006

Principal Investigator, Genentech Marina, Phase III Multicenter, Randomized, Double Masked, Sham Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Minimally Classic or Occult Subfoveal Neovascular Age-Related Macular Degeneration, 2003-2006

**Non-Funded Research:**

Genetics of age-related macular degeneration

**Matthew E. Dangel, M.D.**

**Lectures and Presentations:**

OSU Residents - Corneal Lecture Series

**Appointments/Awards:**

Best Doctor in America 2005-2006 Award

**Miscellaneous Courses:**

OSU Post Graduate Course (March 2006)

OSU Resident Research Meeting (June 2006)
Frederick H. Davidorf, M.D.

Publications:


Grants:

Co-Investigator, NEI/EMMES, Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and w-3 Fatty Acids in Age-Related Macular Degeneration, 2006-2012

Co-Investigator, Novartis Pharmaceuticals, Randomized, Double-Masked, Sham Controlled, Multi-center, Phase IIIb Study Comparing Photodynamic Therapy with Verteporfin (Visudyne) plus two different dose regimens of Intravitreal Pegaptanib (Macugen) in patients with subfoveal choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Genentech Sailor, Phase IIIb, Multi-center, Study of the safety and tolerability of intravitreal injections of rhuFab V2 (ranibizumab in naïve and previously treated subjects with choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Eyetech/OSI Pharmaceuticals, Phase IV, Open Label, Multi-center Trial of Maintenance intravitreal injections of Macugen given every 6 weeks for 48 weeks in subjects with subfoveal neovascular AMD initially treated with a modality resulting in maculopathy improvement, 2006-2008

Principal Investigator, Genaera, Phase III multi-center, randomized, double-masked controlled study of squalamine lactate (MSI-1256F) for infection for the treatment of subfoveal choroidal neovascularization associated with AMD, 2004-2007

Ophthalmologist, Actions to Control Cardiovascular Risk Factors in Diabetes Eye Study (ACCORD), 2004-2008

Principal Investigator, Allergan Pharmaceuticals, Dexamethasone in subjects with central retinal vein occlusion or branch retinal vein occlusion with diabetic macular edema, 2004-2006

Principal Investigator, National Eye Institute, Complications of Age-related Macular Degeneration Trial (CAPT), 1999-2006
Frederick H. Davidorf, M.D.

Grants: (continued)

Principal Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Temporal Variation in OCT Measurements of Retinal Thickening in Diabetic Macular Edema, 2005-2007

Principal Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Observational Study of Diabetic Macular Edema after PRP, 2006-2008

Principal Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Peribulbar Triamcinolone for Diabetic Macular Edema, 2004-2008

Principal Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Subclinical Diabetic Macular Edema with OCT, 2006-2008


Principal Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Intravitreal Triamcinolone for Diabetic Macular Edema, 2004-2008

Principal Investigator, Dynamic Contrast Enhanced Magnetic Imaging in Solid Tumors of the Eye and Orbit, 2003-2006

Principal Investigator, Genentech Horizon, An Open-Label, Multicenter Extension Study to Evaluate the Safety and Tolerability of Ranibizumab in Subjects with Subfoveal Choroidal Neovascularization (CNV) Secondary to Age-Related Macular Degeneration (AMD) Who Have Completed the Treatment Phase of a Genentech-Sponsored Ranibizumab Study

Principal Investigator, Genentech Pier, Phase IIIb, Multicenter, Randomized, Double Masked, Sham Injection Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Subfoveal Choroidal Neovascularization (CNV) with or without classic CNV secondary to Age-Related Macular Degeneration, 2004-2006

Co-Investigator, Genentech Focus, Phase I/II, Single-Masked, Multicenter Study of the Safety, Tolerability, and Efficacy of Multiple-Dose Intravitreal Injections of rhuFab V2 in Combination with Verteporfin (Visudyne) Photodynamic Therapy in Subjects with Neovascular Age-Related Macular Degeneration, 2003-2006

Co-Investigator, Genentech Marina, Phase III Multicenter, Randomized, Double Masked, Sham Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Minimally Classic or Occult Subfoveal Neovascular Age-Related Macular Degeneration, 2003-2006
Frederick H. Davidorf, M.D.

Non-Funded Research:

Genetics of uveal melanoma

Genetics of age-related macular degeneration

Richard P. Golden, M.D.

Lectures and Presentations:

The Ohio State University lecture series: Pediatric Ophthalmology & Strabismus, 3rd Edition, Author: David Taylor and Creig Hoyt, MD; Section 3, January 4, 2006; Chapters 73 - 75, February 22, 2006; Chapter 24 – 31, March 22, 2006.

Optics Lecture Series, The Ohio State University, Department of Ophthalmology, February thru April, 2006.


Grants:

ETROP ATS8 (Co-Inv.), NE $6400; 04/30/2005 – 12/31/2008

NLD2 (Co-Inv.) NEI, $6400; 04/30/2005 – 12/31/2008

Non-Funded Research:

PEDIG Investigator. Nasolacrimal Duct Obstruction (NLD-2) Study.

Miscellaneous Courses:

AAPOS meeting, April, 2006, Keystone, CO
Deborah M. Grzybowski, Ph.D.

Lectures and Presentations:


Basic Research at The Ohio Lions Eye Research Facility, November 5, 2005, Ohio Lions Board of Governors, Columbus, OH.


Deborah M. Grzybowski, Ph.D.

Publications:


Grants:

Deborah M. Grzybowski, PI; Paul A. Weber, CoI; Martin Lubow, Co-I.

Non-Funded Research:

Analysis Of Corneal Biomechanics Based Upon Central And Peripheral Corneal Thickness, Topography And Wavefront Aberration In Normal And Post Refractive Surgery Eyes. __
CSF Arachnoid Granulation Outflow Mechanism. __
Human Arachnoid Granulations Probability-of-Occurrence Maps and Surface Area Quantification.

David K. Hirsh, M.D.

Lectures and Presentations:

Giant Cell Arteritis Grand Rounds, 12/4/05.

Steven E. Katz, M.D.

Lectures and Presentations:

Chewing the Fat: Basic Science and Clinical Trials in Idiopathic Intracranial Hypertension (Pseudotumor Cerebri). Katz SE, Grzybowski D and Criden MR. Neuroscience Grand Rounds, Ohio State University, Columbus, Ohio. 9/27/05

Orbital and Ocular Trauma. Otolaryngology Grand Rounds, Ohio State University, Columbus, Ohio. 10/24/05

Orbital Diseases. Otolaryngology Grand Rounds, Ohio State University, Columbus, Ohio. 11/14/05

Orbital Anatomy and Disease: Presenting Symptoms and Observed Signs. Ohio Ophthalmological Society, 2006 Annual Meeting, Physician and Advanced Technician sessions, Columbus, Ohio. 2/11/06
Steven E. Katz, M.D.

Lectures and Presentations: (continued)


Publications:


Non-Funded Research:

Hydraulic Conductivity of Human Arachnoid Granulation Cap Cells in an In Vitro Model of CSF Outflow

Vitamin A Transduction Pathway in Human Arachnoid Granulation Tissue and Culture

Whole Tissue Perfusion of Human Arachnoid Granulations: An Ex Vivo Model of CSF Outflow

Human Arachnoid Granulation Topography and Surface Area Quantification.

Identification of Alpha and Beta Adrenergic Receptors in Human Arachnoid Granulations and Choroid Plexus Using Immunohistochemistry.

Appointments/Awards:

American Institute of Biological Sciences and United States Army Medical Research and Material Command (as part of the Congrssssionally Directed Medical Research Program), grant reviewer for eye and eye injury research

Best Doctor in America 2005-2006 Award

2005-2006-Scientific Advisory Board, Intracranial Hypertension Research Foundation
Steven E. Katz, M.D.

Appointments/Awards: (continued)

2005 Reviewer, Journal of Ocular Pharmacology & Therapeutics

2006 Reviewer, Eye

L. Carol Laxson, M.D., Ph.D.

Grants:

Co-Investigator, NEI/EMMES, Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and w-3 Fatty Acids in Age-Related Macular Degeneration, 2006-2012

Co-Investigator, Novartis Pharmaceuticals, Randomized, Double-Masked, Sham Controlled, Multi-center, Phase IIIb Study Comparing Photodynamic Therapy with Verteporfin (Visudyne) plus two different dose regimens of Intravitreal Pegaptanib (Macugen) in patients with subfoveal choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Genentech Sailor, Phase IIIb, Multi-center, Study of the safety and tolerability of intravitreal injections of rhuFab V2 (ranibizumab in naïve and previously treated subjects with choroidal neovascularization secondary to AMD, 2005-2007

Co-Investigator, Eyetech/OSI Pharmaceuticals, Phase IV, Open Label, Multi-center Trial of Maintenance intravitreal injections of Macugen given every 6 weeks for 48 weeks in subjects with subfoveal neovascular AMD initially treated with a modality resulting in maculopathy improvement, 2006-2008


Co-Investigator, Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Observational Study of Diabetic Macular Edema after PRP, 2006-2008

Appointments:

Best Doctor in America 2005-2006 Award

OSU Med III-IV Committee

OSU Biomedical Science Institutional Review Board

Assistant Service Director - Veterans Administration (Columbus) Ophthalmology Service

Director – Ophthalmology Resident Clinic
Lawrence E. Leguire, Ph.D., MBA

Lectures and Presentations:


Leguire, L. E. Save Our Sight Program and Ohio Amblyope Registry. Presentation to the Annual meeting of the Ohio LIONS, May 20, 2006. Cincinnati, OH

Leguire, L. E. Funded Research by OLERF (Ohio LIONS Eye research Foundation) throughout Ohio. Presentation to the Annual meeting of the Ohio LIONS, May 20, 2006. Cincinnati, OH

Publications:


Grants:


Appointments / Awards:


Richard G. Lembach, M.D.

Lectures and Presentations:

The Use of Contact Lenses for the Management of Post LASIK Ectasia, American Academy of Ophthalmology Meeting, Chicago, Illinois, October 15-17, 2005

Publications:


Grants:

Evaluation of the Utility of Intra-Operative Topography to Optimize Corneal Shape During Penetrating Keratoplasty with Cynthia Roberts, Ph.D., Thomas Mauger M.D., and Matthew Dangel, M.D. BIOMECC, Inc. $189,663 (August 2004-September 2008)

Non-Funded Research:

Topographic screening of corneal donor tissue

Topographic characterization of keratoconus

Optimization of the refractive result following penetrating keratoplasty using the PAR corneal topography system

Refractive effect of the LASIK flap

Corneal response to laser refractive surgery

Appointments/Awards:

Best Doctor in America 2005-2006 Award

Alan D. Letson, M.D.

Lectures and Presentations:

Diabetic Retinopathy, OSU, July 26, 2005

Retinal Vascular Occlusions, OSU, September 20, 2005
Alan D. Letson, M.D.

Lectures and Presentations: (continued)

Serous Detachments of the Macula: OSU, November 22, 2005

Retinal Telangiectasia and Coats Disease: OSU, November 29, 2005

Hereditary Macular diseases, OSU, February 28, 2006

Phakomatoses and Retinal Tumors, OSU, March 7, 2006

Choroidal Metastases and Lymphocytic Tumors, OSU, March 21, 2006

Retina Board Review – OSU Residents, OSU March 2006

Macular Degeneration A-Z: Moderator, 48th Annual Ophthalmology Symposium – Macular Degeneration, The Ohio State University, Columbus, Ohio, March 2-3, 2006

Publications:

Cryo for ROP Cooperative Group: 15 Year Outcomes Following Threshold Retinopathy of Prematurity; Archives of Ophthalmology, vol. 123, pp. 311-318, 2005


Grants:

Principal Investigator: LEVEL, A Phase IV, open label, multi-center, trial of maintenance intravitreous injections of Macugen® (pegaptanib sodium) given every 6 weeks for 48 weeks in subjects with subfoveal neovascular Age-Related Macular Degeneration (AMD) initially treated with a modality resulting in maculopathy improvement. Funded by OSI/EyeTech - grant for $136,000

Co-Investigator: AREDS 2 : a multicenter, randomized Trial of Lutein, Zeaxanthin and w-3 Fatty Acids in Age Related Macular Degeneration, funded by NEI/EMMES, 2006-2012

Co-Investigator: CATT: a multi center Comparison of AMD Treatment Trial (Avastin vs Lucentis) in the treatment of wet AMD. NIH/Univ. Pennsylvania sponsor

Co-Investigator: ANCHOR (ANti-VEGF Antibody for the Treatment of Predominantly Classic CHORoidal Neovascularization in AMD), a Phase III randomized, multi-center, double-masked, active-treatment controlled study comparing two different doses of LUCENTIS to verteporfin (Visudyne®) photodynamic therapy (PDT) with predominantly classic wet AMD, Sponsor: Genentech
Alan D. Letson, M.D.

Grants: (continued)

Co-Investigator: MARINA (Minimally classic/occult trial of the Anti-VEGF antibody Ranibizumab In the treatment of Neovascular AMD) Phase III randomized, multi-center, double-masked, sham-controlled study, minimally classic or occult wet AMD. Sponsor: Genentech

Co-Investigator: HORIZON: a six month extension of Genetech ANCHOR and MARINA clinical trials

Co-Investigator SAILOR II (Safety Assessment of Intravitreal Lucentis for AMD) a Phase IIIb multicenter study to evaluate the safety and tolerability of Ranibizumab (0.3 mg and 0.5 mg) in Naïve and previously Treated subjects with CNV secondary to AMD. Sponsor: Genentech

Appointments/Awards:

Excellence in Teaching Award, Department of Ophthalmology, College of Medicine, The Ohio State University, June 1, 2006

Jennifer R. Lewis, Ph.D.

Lectures and Presentations:

“Corneal Topography and Surface Irregularities,” Cornea to Cortex Seminar - Fulbright Fellowship presentation, November 30, 2005, The School of Optometry and Vision Sciences, Cardiff University, (Cardiff, Wales U.K.)

Lewis, Jennifer, A. Schrader, J. Lannutti, C Roberts. “Analysis of roughness response to excimer laser ablation: Curved versus flat surfaces,” October 1, 2005, BMES (Biomedical Engineering Society) 2005 Annual Meeting, (Baltimore, MD)


J. Wilding, J. Lewis, C. Roberts, “Generation of a Topographic Database for Normal Donor Eyes,” March 2006, 5th Annual Graduate/Medical Student Research Symposium, College of Medicine. 1st Place poster presentation and Research Travel Award.

J.R. Lewis, S. Dennis, C. Boote, K. Meek, “Comparison of the Collagen Distribution and Fibrillar Orientation in Porcine and Human Cornea,” May 1, 2006, ARVO (Ft. Lauderdale, FL)
Jennifer R. Lewis, Ph.D.

Grants:

Principal Investigator: Jennifer Lewis, Ph.D. Funding Agency: The U.S-UK Fulbright Scholar Program, Type: Fulbright Scholar - Research Fellowship at Cardiff University 9/01/05 – 08/30/06, Proposal Title: Quantitative assessment of the biomechanical response of human cornea to lamellar keratoplasty in long-term organ culture. A comparison of ablation depth and optical zone size on corneal structure in a pressurized system. Total award: £15,000 GBR  % effort: 50%. Full-time overseas completing research at the School of Optometry and Vision Science and the Cornea Biophysics Structure Laboratory, Cardiff University, in Cardiff, Wales. Collaborated with Profs. Michael Boulton (Chair), Keith Meek and Andrew Quantock, and John Marshall of St. Thomas’ Hospital. Role: Fulbright Fellow; Submitted: 9/04.

Non-Funded Research:

Cornea Structure and Biomechanical Response using X-Ray Diffraction and Optical Coherence Tomography Imaging, completed research and collected data at Cardiff University and Guy’s and St. Thomas’ Hospital, unfunded research as part of the Fulbright Fellowship 2005-2006.

RO3 – NIH-NEI Application Submitted June 1, 2005, with Co-PI L. Leguire, Ph.D. from Children’s Hospital. “Anatomical Correlates of Congenital Nystagmus using FMRI in an identified family.”

Resubmitted August 1, 2006 Project period: 4/01/07 – 3/31/09, Role: PI of OSU subcontract with L. Leguire, PI for Children’s Hospital, Source: NIH- R21, Amount/% Salary: 25% Proposal title: FMRI of Infantile Nystagmus Syndrome, NIH R21; Year 1, 25% of base salary; Year 2, 25% of base salary; Expect to hear priority scores in Nov/Dec 2006.

Appointments/Awards:


Thomas F. Mauger, M.D.

Lectures and Presentations:


Publications:

Mauger, T.F. Craig, E.L., Combined Stenotrophomonas and Acanthamoeba Keratitis with a Conjunctival Flap Followed By a Penetrating Keratoplasty, Cornea, accepted for publication Jan 2006.
Thomas F. Mauger, M.D.

Publications: (continued)

Lerhaupt, L. Mauger, T.F. Corneal Endothelial Changes from Povidone Iodine Exposure, Journal of Toxicology, Accepted Feb, 2006.


Grants:

A Study to Evaluate the Clinical and Microbial Efficacy of 0.6% ISV-403 Compared to Vehicle in the Treatment of Bacterial Conjunctivitis – Bausch & Lomb $28,000 – 2006


Appointments/Awards:

Best Doctor in America 2005-2006 Award

Columbus EENT Society – President

Central Ohio Lion’s Eye Bank – Board of Directors

Fight for Sight Alumni Advisory Council

Director – Veterans Administration (Columbus) Ophthalmology Service

Miscellaneous Courses:

Advanced Cornea Course, Indianapolis, IN, July 26-27, 2005

Managua, Nicaragua, Preliminary visit to evaluate their ophthalmology program as a potential site for clinical, research, and educational collaborations, September 2-3, 2005

American Academy of Ophthalmology, Chicago, IL, October 15-18, 2005

Ohio Ophthalmological Society’s Annual Meeting, Physicians Clinical Program, Columbus, OH, February 11, 2006
Mary Lou McGregor, M.D.

Lectures and Presentations:

The Ohio State University lecture series: Pediatric Ophthalmology & Strabismus, 3rd Edition, Author: David Taylor and Creig Hoyt, MD; Sections 1 & 2, January 25, 2006; Section 5, March 29, 2006.

Grants:

ETROP ATS8 (Co-Inv.), NE $6400; 04/30/2005 – 12/31/2008

NLD2 (Co-Inv.) NEI, $6400; 04/30/2005 – 12/31/2008

Cynthia J. Roberts, Ph.D.

Lectures and Presentations:

“Visual Field Defects and Dynamic Contour Tonometry” Ziemer Ophthalmics Symposia Dynamic Contour Tonometry and its Place in the Diagnostic Armamentarium, World Glaucoma Congress, Vienna, Austria, July 8, 2005

“The Influence of Corneal Biomechanics on IOP Measurement” Ziemer Ophthalmics Symposia, World Glaucoma Congress, Vienna, Austria, July 8, 2005

“Corneal Biomechanics, IOP, and OPA” Mini-panel, Speakers’ Corner @ Ziemer-Ophthalmics booth with J. Brandt, American Academy of Ophthalmology, Chicago, IL, October 16, 2005

“IOP, OPA and Glaucoma Progression” Speakers’ Corner @ Ziemer Ophthalmics booth, American Academy of Ophthalmology, Chicago, IL, October 17, 2005

“What’s New in Ocular Biomechanics?”, Scientific Advancements Session, 7th International Congress of Wavefront Sensing & Optimized Refractive Corrections, Nassau, Bahamas, January 28, 2006

“Biomechanical Customization for the Next Generation of Laser and Refractive Surgery”, Topography or Wavefront-Based Ablation Symposium, 10th ESCRS Winter Refractive Surgery Meeting, February 10, 2006

“Conquering Corneal Biomechanics and Thickness in the Measurement of IOP” Pascal Symposium, World Ophthalmology Congress, Sao Paolo, Brazil, February 21, 2006

“Ocular Pulse Amplitude, Corneal Biomechanics, and Glaucoma”, Pascal DCT Breakfast Symposium, American Society for Cataract and Refractive Surgery, San Francisco, California, March 18, 2006

Cynthia J. Roberts, Ph.D.

Lectures and Presentations: (continued)

“Preliminary Characterization of the OQAS” Quality of Vision: OQAS (Optical Quality Analysis System) Symposium, American Society for Cataract and Refractive Surgery, San Francisco, California, March 18, 2006

“Biomechanical Customization and Epi-LASIK”, Norwood Booth Presentation, American Society for Cataract and Refractive Surgery, San Francisco, California, March 19, 2006


“In Vivo Measurement of Corneal Biomechanical Properties.” Cardiff University, Cardiff, United Kingdom, May 10, 2006


“The Importance of Corneal Biomechanics in Ophthalmology.” The Brazilian Society of Refractive Surgery (BRSCRS), Belo Horizonte, Brazil, June 2, 2006.

“Corneal Biomechanics in Refractive Surgery,” 9th Swiss Refractive Congress; featuring Corneal Biomechanics, from Artifact to Fact, Lucerne, Switzerland, June 10, 2006.

“Wavefront Analysis vs Corneal Topography,” 9th Swiss Refractive Congress; featuring Corneal Biomechanics, from Artifact to Fact, Lucerne, Switzerland, June 10, 2006.

“Corneal Biomechanics and Intra-ocular Pressure” Italian Glaucoma Society, Sienna, Italy, June 16, 2006.

“The Influence of Corneal Biomechanics on IOP Measurement” New Tonometry/CCT/Continuous IOP Measurement Course, World Glaucoma Congress, Vienna, Austria, July 8, 2005
Cynthia J. Roberts, Ph.D.

Lectures and Presentations: (continued)

“Biomechanics of the Cornea” Refractive Surgery Didactic Course, XXIII Congress of the ESCRS, Lisbon, Portugal, Sept. 10, 2005

“Q-factor vs. Curvature Gradient: a Closer Look at Planning and Evaluation Profiles” Refractive-on-line Course, Corneal Biomechanics Session, Milan, Italy, September 16, 2005

“Oblate vs. Prolate: A Closer Look Characterizing Corneal Shape” Refractive-on-line Course, Corneal Biomechanics Session, Milan, Italy, September 16, 2005

“Biomechanics of Topography” Advanced Clinical Corneal Topography for Refractive Surgeons Course, American Academy of Ophthalmology, Chicago, IL, October 18, 2005

“Everything You Wanted to Know About Corneal Topography” Allied Staff Course, EastWest Eye Conference, Cleveland, Ohio, October 29, 2005

“Everything You Wanted to Know About Corneal Topography” O.D. Course, EastWest Eye Conference, Cleveland, Ohio, October 29, 2005

“Corneal Response to Refractive Surgery and Its Impact on Outcomes” O.D. Course, EastWest Eye Conference, Cleveland, Ohio, October 29, 2005

“The Difference Between Corneal Topography and Wavefront” Wavefront Basics Course, 7th International Congress of Wavefront Sensing & Optimized Refractive Corrections, Nassau, Bahamas, January 26, 2006

“Quality of Vision Evaluation” Refractive Surgery Didactic Course, 10th ESCRS Winter Refractive Surgery Meeting, Monte Carlo, Monaco, February 10, 2006

“Bio mechanics of the Cornea” Refractive Surgery Didactic Course, 10th ESCRS Winter Refractive Surgery Meeting, Monte Carlo, Monaco, February 10, 2006


“Corneal Biomechanical Issues Involving Custom Treatments” Refractive Surgery Course: What Do We Need to Know About Corneal Biomechanics? World Ophthalmology Congress, Sao Paolo, Brazil, February 22, 2006

Cynthia J. Roberts, Ph.D.

Lectures and Presentations: (continued)

“Corneal Biomechanics After Surface Ablation: What are the Relevant Differences than LASIK” Refractive Surgery: Advanced Surface Ablation Course, World Ophthalmology Congress, Sao Paolo, Brazil, February 24, 2006

“Principles of Orbscan Topography and Practical Interpretation of Elevation and Curvature Maps” In Refractive Surgery Course, American Society for Cataract and Refractive Surgery, San Francisco, California, March 19, 2006

“Biomechanics of Keratoconus and Post LASIK Corneal Ectasia” In Course: Modern Diagnosis and Surgical Treatment for Keratoconus and Post LASIK Corneal Ectasia, American Society for Cataract and Refractive Surgery, San Francisco, California, March 19, 2006

“Integration of Corneal Biomechanics into the Treatments of Irregular Astigmatism” In Course: Customized Ablation in Surgical Management of Irregular Astigmatism, American Society for Cataract and Refractive Surgery, San Francisco, California, March 20, 2006


Xu R, Qiang B, Roberts C: “Retinal Tissue Oxygen Imaging by Near Infrared Light and Wide Field OCT.” International Society for Optical Engineering


Wilding J, Lewis J, Mahmoud A, Roberts C: “Topographic Data for Normal Donated Human Corneas”. The 5th Annual Ohio State University Medical Center Graduate and Postgraduate Research Day, March 30, 2006


Cynthia J. Roberts, Ph.D.

Lectures and Presentations: (continued)


Publications:


Twa, M; Parthasarathy S; Roberts C; Mahmoud AM; Raasch TW; Bullimore MA, “Automated Decision Tree Classification of Corneal Shape.” Optometry and Vision Science, December 2005;82(12):1038-46 .


Cynthia J. Roberts, Ph.D.

Grants:


“Functional image of visual cortex & retina tissue for vision pathophysiology.” Children’s Hospital/OSU Collaborative Research Award. Co-Principal Investigators: Ronald Xu, Cynthia Roberts and Lawrence Leguire., $100,000. 6/2006 to 5/2008.

Non-Funded Research:

Corneal Biomechanics in Glaucoma
Response of Trabecular Meshwork Endothelial Cells to Laser Irradiation
Biomechanics in Refractive Surgery

Equipment Purchased:

PASCAL Dynamic Contour Tonometer; donated by company for research
Reichert Ocular Response Analyzer; donated by company for research

Appointments / Awards:

Torrence A. Makley Research Professor in Ophthalmology, 2003 to present
Editorial Board of Journal of Refractive Surgery, and Journal of Cataract and Refractive Surgery
Consultant to the Ophthalmic Devices Panel of the FDA
Cynthia J. Roberts, Ph.D.

Miscellaneous Courses:

Graduate Student Credit Offered:

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Gary L. Rogers, M.D.

Lectures and Presentations:

Journal of Pediatric Ophthalmology & Strabismus January/February, 2006; Distribution and Determinants of Intraocular Pressure in Normal Pediatric Population

The Ohio State University lecture series: Pediatric Ophthalmology & Strabismus, 3rd Edition, Author: David Taylor and Creig Hoyt, MD; , Chapters 45 & 50, January 11, 2006; Chapter 78, February 1, 2006; Chapters 59-63, March 15, 2006

Journal of Pediatric Ophthalmology & Strabismus May/June, 2006; Update on the Surgical Management of Pediatric Cataracts

The Eye Center Conference, Grant Medical Center, September 23, 2005

Publications:

Richard P. Golden, MD, William Shiels, II, DO, Kenneth V. Cahill, MD, Gary L. Rogers, MD; Percutaneous Drainage and Ablation of Orbital Dermoids
Gary L. Rogers, M.D.

Grants:

GL Rogers, PI, H Sheng, Co-Inv.; COCS; $10,000

H Sheng, PI, GL Rogers, Co-Inv.; CECD


DL Bremer, PI, GL Rogers, Co-Inv.; NEI ATS8 $6400 04/30/2005 – 12/31/2008

DL Bremer, PI, GL Rogers, Co-Inv.; NEI, NLD2 $6400; 04/30/2005 – 12/31/2008

Paul A. Weber, M.D.

Lectures and Presentations:

Resident Lectures
09/09/05 – Anatomy Overview, IOP, Gonioscopy, Clinical Exam
09/30/05 – Glaucoma Suspect, COAG, NTG
10/21/05 – Pseudoexfoliation Glaucoma, Pigmentary Glaucoma
12/02/05 – Management and Pharmacology of the Glaucoma Patient, Medical Students (Med 2)
08/30/05 – Introduction to Ophthalmology – Optic Disc
08/30/05 – Red Fundus Pathology
08/31/05 – White and Black Fundus Pathology
08/31/05 – Glaucoma
09/01/05 – Tutorial: Red, White and Black Pathology
09/02/05 – Ocular Pharmacology
09/02/05 – Ophthalmoscopy
09/07/05 – Practical Ophthalmology

Grand Rounds
04/06/06 – Imaging for Glaucoma

ARVO – Ft. Lauderdale, Fl: 05/03/06 - A comparison of Dynamic Contour Tonometry, Goldman Applanation Tonometry and Central Corneal Thickness in Glaucomatous and Ocular Hypertensive Eyes

World Glaucoma Conference – Vienna, Austria: 07/05 - Prediction of AGIS Visual Field Defect Score Using Corneal Shape, Thickness, Biomechanical Properties and Multiple Measurements of Intraocular Pressure

Publications:

Paul A. Weber, M.D.

Publications: (continued)


Grants:

Principal Investigator - Paul A. Weber MD, Funding Agency - NEI/NIH, Ocular Hypertension Treatment Study(OHTS), 01/01/1994-12/31/2008, Direct Cost - $64,810.00, Time Percentage - 6%

Principal Investigator - Paul A. Weber MD, Funding Agency – Allergan, Study to evaluate the effectiveness and safety of oral memantine, 11/03/2000-11/03/2007, Direct Cost - $19,884.38, Time Percentage - 6%

Co-Investigator – Paul A. Weber, MD, Funding Agency – Columbus Foundation, Comparison of novel antiproliferatives to improve the long term success of glaucoma filtration Surgery, 03/01/2006-12/31/2007, Direct Cost - $18,500, Time Percentage - 5%

Co-Investigator – Paul A. Weber MD,Funding Agency – Columbus Foundation, Measurement and evaluation of the elastic and viscous properties of the cornea in glaucoma, 03/01/2006-12/31/2007, Direct Cost - $16,450, Time Percentage - 5%

Appointments/Awards:

Landacre Honor Society Faculty Award
Division Reports

education    service

teamwork    partnerships
Anterior Segment Division
Thomas F. Mauger, M.D.

The Anterior Segment Division continues with its mission of service, clinical care, research, and education. The division was well represented at the annual Association for Research in Visual Science and Ophthalmology (ARVO) with a total of 13 abstracts. A study of intraoperative corneal astigmatism with corneal transplantation is ongoing and is supported by an NEI small business grant. The department has become the first center in the area to perform deep lamellar endothelial keratoplasty and descemet stripping endothelial keratoplasty.

The anterior segment service is participating in a nationwide investigation of fungal keratitis with retrospective and prospective analysis. The division is also about to start a prospective randomized study of bacterial conjunctivitis supported by Bausch and Lomb.

Dr. Reynell Harder-Smith will be joining the Cornea Division as a fellow on July 1, 2006. Dr. Harder-Smith graduated with a B.A. from the University of Rochester in Rochester, NY and continued her education at Philadelphia College of Osteopathic Medicine in Philadelphia, PA where she received her D.O. She completed her internship and Ophthalmology residency at Doctors Hospital in Columbus, OH.

The Anterior Segment faculty and fellows continue to participate in Grand Rounds, morning didactic sessions, and journal clubs with the residents.
During the last fiscal year, the Central Ohio Lions Eye Bank received 570 donor eyes and provided 283 corneas for transplantation. Donor eyes and corneas not suitable for transplantation were made available as in the past for research and the OSU Ophthalmology residency program.

This period marked the first full year of new U.S. Food and Drug Administration regulations, entitled Current Good Tissue Practices, which became effective in May, 2005. Compliance with these most comprehensive federal regulations to date required the reconfiguration of staff and significant increases in cost to the Eye Bank. While regulatory content somewhat mirrors the accreditation requirements of the Eye Bank Association of America by which the Central Ohio Lions Eye Bank is certified, the FDA’s approach to regulation more closely simulates the federal agency’s Good Manufacturing Practices, required in commercial establishments. From the FDA’s perspective, the goal of preventing the introduction, transmission, or spread of infectious diseases includes added controls, activities, and documentation that have been expensive for non-profit eye banks. This has resulted across the field of non-profit eye banking in the necessity to increase processing fees for surgical tissues. However, the reimbursement of the fees falls short of the actual costs incurred.

In December, 2005, the Central Ohio Lions Eye Bank relocated to a larger facility, with the intent to provide improved services and increase its visibility (and therefore its productivity) as a community-service organization. The Eye Bank continues to serve the full community as a patient-based provider of transplant corneas and scleral grafts, and to value highly all relationships it has maintained since its inception.

In May, 2006, the Eye Bank’s technical director completed Dr. Frank Price’s course in the use of the automated keratome for preparing corneal tissue for Descemet’s Stripping Automated Endothelial Keratoplasty. The Eye Bank expects to begin providing pre-cut corneas for this surgery during the 2006-07 fiscal year. Central Ohio Lions Eye Bank will be among the first in the nation to offer this service. Generous special contributions from area Lions Clubs are making the purchase of the equipment possible.

As of July 1st, 2006, the newest version of the Ohio Donor Registry is four years old; this means that everyone who has a current Ohio driver’s license has had the opportunity to elect to register as an eye, organ, and tissue donor. Current Ohio law confirms that a registered donor has given legal consent for the recovery of body parts after death, and that no further authorization by family members is required for the anatomical gifts. However, the reality of dissenting families continues to make full adherence to the principle untenable, so recovery agencies have effectively been forced to seek additional authorization regardless of an individual’s registry status. The Eye Bank has never sought to override a family’s objection in the case of a registered (i.e., legally consenting) donor, but recognizes that the intention of increasing donor numbers through registration is diluted because of this industry-wide reluctance. State legislators are now considering tax incentives for anatomical gifts, in an attempt to entice donations without breaking the legal prohibition against the sale of body parts. Central Ohio Lions Eye Bank has thus far taken no official position for or against such measures.
The glaucoma service continues to be involved in research that is setting the standards for treating one of the leading causes of blindness as well as exploring new approaches in diagnosing, predicting progression and treating this disease.

We are now in the 12th year of participating in the Ocular Hypertension Treatment Study. Findings from this NIH-NEI funded study has already resulted in dramatic shifts in managing ocular hypertension and glaucoma. These changing treatment paradigms will result in both the prevention of glaucoma as well as improvement in treatment that will result in fewer cases of blindness. This study is being expanded to look at genetics, quality of life and impact of glaucoma on individuals’ lives. We anticipate a five year extension of this federally funded project.

Paul Weber, M.D.

We are in the fourth year of participating in an industry supported study exploring the new area of glaucoma management, neuroprotection.

One of the most important findings to come out of the previously mentioned Ocular Hypertension Treatment Study has been the importance of corneal thickness in glaucoma. In clinical research, we are exploring new devices that may measure biomechanical properties of the cornea and the eye. This may lead to better methods of evaluating patients for glaucoma, enhanced ability to predict who may develop glaucoma, better methods for measuring the intraocular pressure and, potentially, brand new treatment modalities. Some of this work was presented at the World Glaucoma Congress in Vienna, Austria this past summer. Our work has resulted in collaboration in research with national and international researchers in this field and is positioning us as a leader in this line of research.

In the clinical arena we have added a new faculty member, Dr. Gloria Fleming. This addition has expanded our clinical end educational contributions to the department.
Medical Education Division
Continuing Medical Education Programs

Grand Rounds
10 Specialty Grand Rounds
28 Case Presentation Grand Rounds
1 Update Session
1 Medical Ethics Training
1 Collaborative Research Session

The 49th Annual Postgraduate Symposium in Ophthalmology
“AMD from A to Z” was held at the Hilton at Easton in Columbus, Ohio on March 3-4, 2006. Of the 140 in attendance from 9 states, 88% were ophthalmologists and the remaining 12% consisted of Ph.D’s, nurses, optometrist and students.

Resident Education
The Annual Ophthalmology Research Symposium was held June 16, 2006.

Ophthalmology Award Recipients for the 2005 - 2006 Residents

![Residents Image]

First Place: Nicholas A. Rogers, M.D.
Second Place: J. Garret Mouser, M.D.
Third Place: Matthew P. Ohr, M.D.

Graduate Students:
First Place: David W. Holman, B.S.
Second Place: Shelley M. Glimcher, B.S.

Makley-Battles Teaching Award Recipient (2006):
Timothy H. Tweito, M.D.
Clinical Assistant Professor
Department of Ophthalmology

The Makley-Battles Teaching Award is given annually in recognition of outstanding faculty contributions to resident education.
The Neuro-ophthalmology service continues to contribute to the departmental mission in the core areas of clinical care, teaching and research. Departmental faculty including Avrom Epstein, David Hirsch, Susan Benes and Steven Katz are responsible for the Resident lecture series as well as medical student teaching in neuro-ophthalmology.

The Neuro-ophthalmology Research Group has been recognized internationally for research in the area of idiopathic intracranial hypertension (IIH). Our first two papers describing a model of cerebrospinal egress through the arachnoid granulations have been published and accepted by the scientific community: Holman, D.W, Grzybowski, D.M., Mehta, B.C., Katz, S.E., Lubow, M.: “Characterization of Cytoskeletal and Junctional Proteins Expressed by Cells Cultured from Human Arachnoid Granulation Tissue.” Cerebrospinal Fluid Research 2005, 2:9.


Because of our ground-breaking work, we were asked to host the 3rd Annual Neural Hydrodynamic Symposium here at Ohio State in 2005. Steven E. Katz, M.D. and Deborah M. Grzybowski, Ph.D. have been appointed to the Scientific Advisory Panel of the Intracranial Hypertension Research foundation. In addition, Dr. Grzybowski has been appointed to the steering committee of Brain Child Foundation and was awarded a Landacre Faculty Teaching Award.

We have ongoing basic science studies looking at arachnoid cells grown in cell culture and ex-vivo arachnoid membrane. We are introducing new variables into the model to evaluate their effects on hydraulic conductivity, including vitamin A (which is implicated in the etiology) and various medications commonly used in treatment of IIH. We have on-going anatomical studies to evaluate the location and density of arachnoid granulations on the human brain. We are looking for a number of important receptors at the sites of cerebrospinal fluid production and egress to better understand how we might intervene to reduce intracranial pressure medically.

From a clinical standpoint, we have launched a major clinical study looking at serum and cerebrospinal fluid in patients with IIH compared to age and weight matched controls. This study is being accomplished with the assistance of the General Clinical Research Center which is NIH funded. The goal of this study is to elucidate a number of factors that may be involved in the pathogenesis of the disease. We are also studying the diets of IIH patients with a food frequency questionnaire.

Researchers in our group have made platform presentations at a number of prestigious meetings in the designated time period, including ARVO (Ft. Lauderdale), Society for Research into Hydrocephalus and Spina Bifida (Cambridge, United Kingdom), North American Neuro-ophthalmology Society meeting (Tucson), and the World Ophthalmology Congress (Sao Paulo, Brazil).
The Oculoplastic Surgery Service is committed to excellence in clinical care, research and teaching. Active participation in medical school teaching occurs in core curriculum instruction, physical diagnosis instruction, clinical rotations, elective rotations, and research projects. Resident teaching is organized with didactic lectures, weekly staffing of an Oculoplastics Clinic at the OSU campus, first year resident rotations in Oculoplastic Surgery, weekly surgery and clinic for Ophthalmic Plastic Surgery during the second year pediatric rotation, and third year resident Oculoplastic Surgery rotations. The American Society of Ophthalmic Plastic and Reconstructive Surgery (ASOPRS) Fellowship program compliment the residency teaching program, and provide additional educational and research resources to the residents.

Members of the Oculoplastic service are Kenneth Cahill, M.D., Mark Criden, M.D., Kelly Everman, M.D., Jill Foster, M.D., Steven Katz, M.D., Paul Proffer, M.D., and James Moses, M.D. Dr Everman, a recent addition to the service, did a two year ASOPRS fellowship in Indianapolis, IN, where his research interests included orbital trauma and fracture repair.

For the Fiscal Year July 1, 2005 to June 30, 2006 a total of 677 cases were examined, reported, and filed in the Division Archives of Ophthalmic Pathology. This total includes the following:

- Enucleations, including 6 malignant melanomas
- Eviscerations
- Exenteration specimens
- Orbital tissues, including 9 lacrimal gland biopsies
- Temporal artery biopsies
- Eye lid lesions
- Conjunctival lesions
- Corneal transplants and corneal biopsies
- Lenses extracted – 3 intraocular lens implants
- Intraocular lenses removed and exchanged
- Extracted lens capsules
- Miscellaneous specimens including – 3 iris tissues,
  1 ciliary body biopsy, 8 foreign bodies, 1 shoulder biopsy,
  1 brow lift specimen, and 1 intraocular parasite
- Outside slides for consultation

All Ophthalmic Pathology specimens from our department are processed in the Division of Neuropathology under the supervision of Abhik Ray Chaudhury, M.D. Weekly review sessions which often include fellows, residents, and medical students from that division were conducted and a joint report was generated.
Outpatient clinic visits increased again this year by 17.587% to 70,648 patients. The clinic continues to be staffed by two residents from The Ohio State University and an optometrist 3 ½ days a week. In addition, we added a fellow to our program in July, 2005, Dr. Richard Golden. Dr. Shatnawi has been a welcome addition to the staff in helping see patients in the clinic, research and teaching of medical students and residents.

Surgically, the Department of Ophthalmology has also continued to be extremely active. In the year, 2005-2006, 14,183 outpatient surgeries and 525 main cases were performed at the Columbus Children’s Hospital. Ophthalmology performed the greatest number of cases in the Children’s Surgery Center.

The department participates in both funded and unfunded research. The Early Treatment for Retinopathy of Prematurity (ETROP) investigators are beginning to see randomized patients for the 6-year follow-up visits. Testers are coming out from the University of Arizona to perform acuity and visual field testing that will complete Phase II of the ETROP trial. Several amblyopia protocols and a follow-up nasolacrimal duct study are being conducted in association with the Pediatric Eye Disease Investigator Group (PEDIG). Huan Sheng, Ph.D., our post-doctoral fellow, is doing two studies involving the corneal endothelium. She is recruiting surgical patients from the pediatric practice and diabetic patients from Dr. Sotos’ office. Larry Leguire, Ph. D. continues to work with the OSU Department of Ophthalmology in functional MRI research. This year has also been a productive year for publication. Three (3) publications were published in refereed journals.

Twenty-one (21) publications were published in referred journals. In May, 2004, Dr. Rogers was inducted into The American Ophthalmic Society. This represents, to our knowledge, the first ophthalmologist in the Central Ohio area to be accepted into the AOS. Columbus Children’s Hospital continues to be the resource center for the Amblyope Registry for the state of Ohio, which is under the direction of Lawrence Leguire, Ph.D.

I am very pleased with the progress of our department and its continued success not only in the laboratory and clinic but in research areas as well. We are working with the hospital to increase the amount of space for both the laboratory and the clinic. It is our goal to continue to be a leader in the research of functional MRI and changes into the visual cortex with in patients with amblyopia and nystagmus.
Since the mid-90s, at OSU the excimer laser has been used to correct the nearsightedness, farsightedness and astigmatism. In 2001, we upgraded to the LADARVision 4000 System which incorporates a radar eye tracker that tracks eye movement at 4,000 times per second to address eye movement during treatment. Our patients have been treated very successfully using this technology and we continue to use it today. The latest technology, wavefront software, was introduced two years ago to address the quality of vision in low-light conditions.

Until now, laser vision correction, like glasses and contacts, could correct the visual distortions caused by nearsightedness, farsightedness and astigmatism. However, these three common types of vision distortions, called “lower order aberrations”, are only responsible for 85%-90% of the overall quality of vision. There are other imperfections in the eye’s optical system that may affect the clarity of vision and night vision. These visual distortions are called “higher order aberrations” and they can cause glare, shadows, halos, and other annoying visual effects.

Now, with the assistance of advanced wavefront technology, both lower and higher order aberrations, can be measured and addressed. This is accomplished by passing flat waves of light through the eye using a computerized wavefront-measuring instrument called LADARWave. As the light waves travel through the eye’s optical system, the distortions in the eye are measured. LADARWave captures the distorted waves as they exit the eye and compares them to the perfectly flat waves that would have been reflected if the optical system were perfect. Next, a 3D map is generated representing the unique visual distortions, including both lower and higher order aberrations. This map is a guide for the laser, telling it how and where to reshape the cornea to correct vision for each unique eye.

CUSTOMCORNEA is the process of reshaping the cornea to address both the lower and higher order aberrations. The LADARWave wavefront map containing the aberrations of the eye is perfectly registered and aligned with the surface of the cornea during treatment. Incorporating this advance in refractive surgery, at our new Dublin location in 2006, has yielded excellent results for our patients.
For Fiscal Year 2006, the Department of Ophthalmology received 12 new research awards and continued work on 26 multiple year grants. These awards focus on: age related macular degeneration, diabetic macular edema, amblyopia, glaucoma, idiopathic intracranial hypertension, keratoconus and managing ocular hypertension. Funding sources include NIH, the Columbus Foundation, and Ohio Lions Eye Research Foundation, as well as industry. In addition, one of our Faculty Research Scientists received a Fulbright Fellowship for research at Cardiff University in the United Kingdom.


Faculty members in the department received various research awards and appointments in the last year including: Fulbright Fellowship, Scientific Advisory Board of the Intracranial Hypertension Research Foundation, American Institute of Biological Sciences and United States Army Medical Research and Material Command (as part of the Congressionally Directed Medical Research Program) in the role of grant reviewer for eye and eye injury research, Landacre Honor Society Faculty Award, Scientific Advisor to the Ohio LIONS Eye Research Foundation, and the Board of Prevent Blindness Ohio.
Corneal biomechanics has become an important area of research with implications for both glaucoma and refractive surgery, including the accurate measurement of intra-ocular pressure (IOP). Jun Liu, Ph.D. and Cynthia Roberts, Ph.D. have developed a model which shows that corneal properties likely have a greater impact on error in Goldmann tonometry measurements than corneal thickness. In other words, a stiff cornea will produce an artificially high IOP because it takes greater force to indent, even if the pressure is normal. This may or may not be associated with a thick cornea. Therefore, applying a linear correction of Goldmann tonometry based on corneal thickness, which has become a common clinical practice, could produce “corrected” values with not only the wrong magnitude, but actually “corrected” in the wrong direction. For example, if the cornea is thick and soft, the correction factor would predict that the measured pressure is higher than the actual pressure, when in reality it is lower due to the easily deformed soft cornea. This research leads to the recommendation to avoid using linear correction factors of measured IOP. Corneal thickness remains an important risk factor for glaucoma, even though it is not recommended to use corneal thickness to “correct” measured IOP.

The corneal biomechanical response to laser refractive surgery offers an explanation for induced aberrations, particularly spherical aberration, that have been difficult to control in both conventional and wavefront-guided procedures. The figure illustrates the average post-operative tangential curvature maps from 30 subjects, who had each eye treated with a different excimer laser. Both eyes of all patients had a 6.5mm optical zone, and yet the eyes on the right had significantly greater paracentral increase in curvature and significantly greater induced spherical aberration than the contralateral eyes, shown on the left. This is due the larger transition zone on left, which minimized the biomechanical response and produced a more optimal curvature profile. This research demonstrates that the transition zone is not neutral, and the design of the transition zone can affect higher order outcomes. The ability to measure corneal properties pre-operatively, using a new commercial device, offers the possibility to predict the biomechanical response and potentially compensate for it, leading to biomechanical customization in the next generation of refractive surgery.
Vitreoretinal Division
Robert Chambers, D.O.

T he Retina Division is under the leadership of Dr. Robert Chambers. Our faculty consists of Frederick Davidorf, M.D., Louis Chorich, M.D., Carol Laxson, M.D., Alan Letson, M.D., Robert Chambers, D.O. and Timothy Tweito, M.D., Vitreoretinal Fellow. Scott Savage leads the Imaging Center which is responsible for anterior and posterior segment photography, fluorescein photography, anterior and posterior segment ultrasonography, and ocular computerized tomography (OCT).

The Retina Division is a tertiary care service which is responsible for the three missions of the College of Medicine; teaching, research, and clinical care. The retina rotation is one of the most popular for the ophthalmology residents within the department. The resident is exposed to a wealth of medical and surgical retina.

We have an active teaching schedule which includes training fellows, residents, medical students, and optometry students. The residents are expected to independently be able to diagnose and have a treatment plan for patients with age-related macular degeneration, diabetic retinopathy, uveitis, and malignant melanoma of the choroid.

Research within the division involves both clinical trials and basic science molecular genetic studies. Our physicians are involved in 18 clinical research trials which evaluate potential drugs for the management of diabetic retinopathy and age-related macular degeneration. Our institution is recognized as one of the leading clinical research sites in the country.

Mohamed Abdel-Rahman, Ph.D., M.D., directs the basic science molecular genetic studies. The Patti Blow Research Fund provides the financial support for the equipment and maintenance of the molecular genetics lab in Wiseman Hall.

Our division is very active and is lucky to have dedicated support staff, which allows us to teach and do research while delivering exemplary patient care. The Retina Division is actively involved in the following clinical research with special emphasis on randomized prospective clinical trials listed below.

ACCORD, Actions to Control Cardiovascular Risk Factors in Diabetes Eye Study, 2004-2008

Dexamethasone in subjects with central retinal vein occlusion or branch retinal vein occlusion with diabetic macular edema, 2004-2006

National Eye Institute /EMMES, Multi-Center, Randomized Trial of Lutein, Zeaxanthin, and w-3 Fatty Acids in Age-Related Macular Degeneration, 2006-2012

National Eye Institute, Complications of Age-related Macular Degeneration Trial (CAPT), 1999-2006
Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Observational Study of Diabetic Macular Edema after PRP, 2006-2008

Diabetic Retinopathy Clinical Research Network, National Eye Institute #EY14231, Subclinical Diabetic Macular Edema with OCT, 2006-2008


An Open-Label, Multicenter Extension Study to Evaluate the Safety and Tolerability of Ranibizumab in Subjects with Subfoveal Choroidal Neovascularization (CNV) Secondary to Age-Related Macular Degeneration (AMD) Who Have Completed the Treatment Phase of a Genentech-Sponsored Ranibizumab Study

Phase IIIb, Multicenter, Randomized, Double Masked, Sham Injection Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Subfoveal Choroidal Neovascularization (CNV) with or without classic CNV secondary to Age-Related Macular Degeneration, 2004-2006

Phase I/II, Single-Masked, Multicenter Study of the Safety, Tolerability, and Efficacy of Multiple-Dose Intravitreal Injections of rhuFab V2 in Combination with Verteporfin (Visudyne) Photodynamic Therapy in Subjects with Neovascular Age-Related Macular Degeneration, 2003-2006

Phase III Multicenter, Randomized, Double Masked, Sham Controlled Study of the Efficacy and Safety of rhuFab V2 (ranibizumab) in Subjects with Minimally Classic or Occult Subfoveal Neovascular Age-Related Macular Degeneration, 2003-2006

Phase IIIb Randomized, Double-Masked, Sham Controlled, Multi-center, Study Comparing Photodynamic Therapy with Verteporfin (Visudyne) plus two different dose regimens of Intravitreal Pegaptanib (Macugen) in patients with subfoveal choroidal neovascularization secondary to AMD, 2005-2007

Phase IIIb, Multi-center, Study of the safety and tolerability of intravitreal injections of rhuFab V2 (ranibizumab in naïve and previously treated subjects with choroidal neovascularization secondary to AMD, 2005-2007

Phase IV, Open Label, Multi-center Trial of Maintenance intravitreous injections of Macugen given every 6 weeks for 48 weeks in subjects with subfoveal neovascular AMD initially treated with a modality resulting in maculopathy improvement, 2006-2008

Phase III multi-center, randomized, double-masked controlled study of squalamine lactate (MSI-1256F) for infection for the treatment of subfoveal choroidal neovascularization associated with AMD, 2004-2007
The Department of Ophthalmology at The Ohio State University added a new satellite location OSU Havener Eye Institute-Dublin at 6435 Post Road in Dublin. Supported by the staff and services of The Ohio State University Department of Ophthalmology, our new facility offers family eye care performed by faculty of the Havener Eye Institute. In addition, Havener Eye Institute - Dublin will offer enhanced space for refractive surgery (LASIK).

Tom Mauger, M.D., David Castellano, M.D. and L. Carol Laxson, M.D., Ph.D. will transfer patient care from our previous Stoneridge Ophthalmology office to our new location. The new location will allow other departmental subspecialty physicians to provide services, which include cornea, glaucoma, and retina. Also, John Maszczak, O.D., will provide comprehensive eye care.

The new office will be located near The Ohio State University Health and Innovation Park. All of our physicians are affiliated with the OSU Medical Center. Our patients benefit from the expertise and latest research findings of one of the nations leading medical centers. The new Dublin community location offers patients a location close to home, work and school.

The opening of the Havener Eye Institute in Dublin will have a positive impact on the eye care in the community by allowing for better access to our faculty in specialty areas of ophthalmology for patients in the northern area of central Ohio.
Establishing a tradition in Ophthalmology

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