

Akshay Thomas, MD, MS

Tennessee Retina
345 23rd Ave N, Suite 350
Nashville, TN 37203

athomas@tnretina.com
615-983-6000

EDUCATION

M.D./M.S. Applied Anatomy,
Case Western University,
Cleveland, Ohio.
Graduation date: May 2012

B.S., Health Sciences,
Purdue University,
West Lafayette, Indiana.
Graduation date: May 2008

TRAINING

Uveitis Fellow
Casey Eye Institute
Oregon Health & Science University
Portland, Oregon
July 2018 – November 2018

Ophthalmology Resident
Casey Eye Institute
Oregon Health & Science University
Portland, Oregon
July 2013 – June 2016

Vitreoretinal Surgery Fellow
Duke University Eye Center
Durham, North Carolina
July 2016 – July 2018

Internship
Aurora St. Luke's Medical Center
Milwaukee, Wisconsin
July 2012 – June 2013

PROFESSIONAL MEMBERSHIP

American Academy of Ophthalmology
American Society of Retina Specialists
American Uveitis Society
Alpha Omega Alpha Honor Medical Society
Ronald G. Michels Fellowship Foundation

TEACHING EXPERIENCE

MCAT/DAT Instructor for Kaplan
Teaching Assistant for Gross Anatomy
Teaching Assistant for Anatomy & Physiology

March 2007 – June 2010
August 2009 – May 2012
August 2006 – May 2008

ACTIVITIES

ASRS Education Committee
Department Editor, Uveitis Section, Retina Specialist
Fostering Innovative Retina Stars of Tomorrow Program
Associate Editor, Photoessay section of RETINA
Graduate Medical Education Committee
Casey Eye Outreach Van Volunteer
Sight Savers International Fundraising Volunteer
Free Clinic of Greater Cleveland Volunteer
Students Helping Others Through Service Volunteer

March 2020 – present
April 2019 – present
February 2018 – present
July 2016 – July 2018
June 2015 – June 2016
July 2013 – June 2016
June 2010 – May 2016
August 2008 – May 2012
August 2005 – July 2008

RESEARCH EXPERIENCE

Publications:

1. Awh C, **Thomas AS**. Rickettsial Neuroretinitis: A Report of 2 Cases. Submitted
2. Thomas GN, Kiew SY, **Thomas AS**, Fekrat S. Central Retinal Vein Occlusion: Antiplatelet Agents and Anticoagulants. Submitted.
3. Malihi M, **Thomas AS**, Wilkinson J, Bailey ST, Choi D, Flaxel CJ. Persistent Outer Retinal Defects Following Macular Hole Surgery – Long-Term Follow-Up. Submitted.
4. Mirzania D, **Thomas AS**, Rothman AL, Berry D, Stinnett S, Fekrat S. Presentation and Outcome Following Branch Vein Retinal Occlusion in 188 Eyes: A Gender Comparison Study. Submitted.
5. Kim JS, Ali MH, **Thomas AS**, Grewal DS, Fekrat S. Morphologic Changes in the Optic Nerve Head of Eyes with Central Retinal Vein Occlusion Treated with Multiple Intravitreal Injections. Submitted.
6. Mirzania D, **Thomas AS**, Rothman AL, Berry D, Stinnett S, Fekrat S. Gender Differences in Presentation, Treatment Patterns and Clinical Outcomes in Central Retinal Vein Occlusion. *Ophthalmic Surg Lasers Imaging Retina*. In press.
7. **Thomas AS**, Grewal DS, Toth CA. Intermediate Uveitis with Retinal Detachment in a Patient with Pompe Disease. *Retin Cases Brief Rep*. 2020; Epub ahead of print.
8. Awh C, Reichstein DA, **Thomas AS**. A case of giant cell arteritis presenting with nodular posterior scleritis mimicking a choroidal mass. *Am J Ophthalmol Case Rep*. 2020;17:100583.
9. **Thomas AS**, Lin P. Local treatment of infectious and noninfectious intermediate, posterior, and panuveitis: current concepts and emerging therapeutics. *Curr Opin Ophthalmol*. 2020; Epub ahead of print.
10. Mir T, **Thomas AS**, Yoon S, Birnbaum F, Goerlitz-Jessen M, Fekrat S. Eyes With Acute, Treatment-Naïve CRVO and Foveal Intraretinal Hemorrhage: Characteristics and Outcomes. *Ophthalmic Surg Lasers Imaging Retina*. 2019;50(12):752-759.
11. **Thomas AS**, Hsu T, House R, Kelly MP, Toth CA, Materin MA, Vajzovic L. Microvascular Features of Treated Retinoblastoma Tumors in Children Assessed Using Optical Coherence Tomography Angiography. *Ophthalmic Surg Lasers Imaging Retina*. 2019;51(1):43-49.
12. Yu JJ, **Thomas AS**, Constantine R, Stinnett SS, Fekrat S. Treatment Patterns and Clinical Outcomes for Central Retinal Vein Occlusion in the Anti-Vascular Endothelial Growth Factor Era. *JVRD*. 2019; 4(1): 13-21.
13. Kiew SY, Thomas GN, **Thomas AS**, Fekrat S. Characteristics of Central Retinal Vein Occlusion in African-Americans. *JVRD*. 2019. Epub ahead of print.
14. **Thomas AS**, Ali A, Arepalli S, Suhler EB. Corneal Haze Related to Autoimmune Endotheliopathy in Pars Planitis. *Ocul Immunol Inflamm*. 2019. Epub ahead of print.
15. **Thomas AS**, Lin P. A Case of TREX-1 Associated Retinal Vasculopathy with Cerebral Leukodystrophy. *Ophthalmology Retina*. 2020; 4(1):115-117.
16. Birbaum FA, **Thomas AS**, Thomas MK, Yoon SP, Dmitriev P, Kim JS, Powers JH, Khan K, Gomez-Caraballo M, Fekrat S. The Effect of Select Systemic Medication on Visual Outcomes in Diabetics with Branch Retinal Vein Occlusion. *JVRD*. 2019; 3(4): 215-222.
17. Powers JH, **Thomas AS**, Mir TA, Birbaum FA, Yoon SP, Kim JS, Khan K, Gomez-Caraballo M, Fekrat S. Impact and Implication of Fovea-Involving Hemorrhage Following Acute Branch Retinal Vein Occlusion. *Ophthalmology Retina*. 2019;3(9):760-766
18. Yu JJ, **Thomas AS**, Berry D, Yoon S, Fekrat S, Grewal DS. The Association of Disorganization of Retinal Inner Layers with Ultra-Widefield Fluorescein Angiographic Features and Visual Acuity in Branch Retinal Vein Occlusion. *Ophthalmic Surg Lasers Imaging Retina*. 2019;50(6):354-364.
19. Chan M, **Thomas AS**, Leitner D, Yoon S, Fekrat S. Clinical Characteristics of Central Retinal Vein Occlusion Patients with Subsequent Retinal Vein Occlusion in the Fellow Eye: A Retrospective Observational Study. *Ophthalmic Surg Lasers Imaging Retina*. 2019;50(7):444-449
20. **Thomas AS**, Rosenbaum JT. Poor Control of Sarcoidosis-Related Panuveitis with an Antibody to IL-23. *Ocul Immunol Inflamm*. 2019. Epub ahead of print.

21. **Thomas AS**. Biologics for the Treatment of Non-Infectious Uveitis: Current Concepts and Emerging Therapeutics. *Curr Opin Ophthalmol*. 2019;30(3):138-150.
22. House R, Hsu T, **Thomas AS**, Finn AP, Toth CA, Materin MA, Vajzovic L. Vascular Findings In A Small Retinoblastoma Tumor Using Optical Coherence Tomography Angiography: A Case Report. *Ophthalmology Retina*. 2019;3(2):194-195.
23. Finn AP, House R, Hsu T, **Thomas AS**, Toth CA, Materin MA, Vajzovic L. Hyperreflective Vitreous Opacities on Optical Coherence Tomography in a Patient with Bilateral Retinoblastoma. *Ophthalmic Surg Lasers Imaging Retina*. 2019;50(1):50-52.
24. **Thomas AS**, Folgar FA, Jaffe GJ, Toth CA, Mahmoud TH. Clinical Impact of Subfoveal Lucency Before or After Treatment of Vitreomacular Traction without Macular Hole in the Phase III Trials of Ocriplasmin Vitreolysis. *Ophthalmology Retina*. 2019;3(1):42-52.
25. Rothman AL, **Thomas AS**, Khan K, Fekrat S. Central Retinal Vein Occlusion in Young Individuals: A Comparison of Risk Factors and Clinical Outcomes. *Retina*. 2018. Epub ahead of print.
26. Berry D, **Thomas AS**, Fekrat S, Grewal DS. Association of Disorganization of Retinal Inner Layers with Widefield Fluorescein Angiographic Features and Visual Acuity in Central Retinal Vein Occlusion. *Ophthalmology Retina*. 2018;2(11):1125-1132.
27. Thompson AC, **Thomas AS**, Berry D, Rothman AL, Fekrat S. Longitudinal Follow-Up of Choroidal Thickness in Central Retinal Vein Occlusion. *JVRD*. 2018;2(5):289-296.
28. Glaser T, **Thomas AS**, Materin M. Successive Uveal Melanomas with Different Gene Expression Profiles in an Eye with Ocular Melanocytosis. *Ocul Oncol Pathol*. 2018;4(4):236-239.
29. Ong S, Walter SD, Chen X, **Thomas AS**, Finn AP, Fekrat S. Bilateral intravitreal 0.19mg fluocinolone acetonide implant for persistent non-diabetic cystoid macular edema after vitrectomy. *Retin Cases Brief Rep*. 2018. Epub ahead of print.
30. **Thomas AS**, Thomas MK, Finn AP, Fekrat S. Use of the Ischemic Index on Widefield Fluorescein Angiography to Characterize a Central Retinal Vein Occlusion as Ischemic or Non-Ischemic. *Retina*. 2018. Epub ahead of print.
31. **Thomas AS**, Hatef AL, Stinnett SS, Keenan RT, Jaffe GJ. Perivascular Thickening on Optical Coherence Tomography as a Marker of Inflammation in Birdshot Retinochoroiditis. *Retina*. 2018. Epub ahead of print.
32. Finn AP, **Thomas AS**, Stinnett SS, Grewal DS, Jaffe GJ. The Role of Cystoid Macular Edema as a Marker in the Progression of Non-Paraneoplastic Autoimmune Retinopathy. *Graefes Arch Clin Exp Ophthalmol*. 2018; 256(10):1867-1873
33. **Thomas AS**, Hsu T, Vajzovic L. Orbital Arteriovenous Fistula Presenting with Choroidal Pulsations on Optical Coherence Tomography. *Am J Ophthalmol Case Rep*. 2018; 12:36-38.
34. Hirji N, Bradley PD, Vincent A, Pennesi ME, **Thomas AS**, Heon E, Mahroo O, Robson A, Moore AT, Michaelides M. Jalili Syndrome: Detailed Cross-Sectional and Longitudinal Features of a Case Series of Patients with Cone-Rod Dystrophy and Amelogenesis Imperfecta Harboring CNNM4 Sequence Variants. *Am J Ophthalmology*. 2018; 188:123-130.
35. Vu D, **Thomas AS**, Finn AP, Grewal DS. Choriocapillaris Flow Voids in Cryptococcal Choroiditis using Optical Coherence Tomography Angiography. *Retin Cases Brief Rep*. 2018. Epub ahead of print.
36. **Thomas AS**, Mahmoud TH. Subretinal Transplantation of Autologous Retinal Free Flap for Chronic Retinal Detachment With and Without Macular Hole. *Retina*. 2018;38(1):S121-S124
37. **Thomas AS**, Redd T, Campbell JP, Palejwala NV, Baynham J, Suhler EB, Rosenbaum JT, Lin P. The Impact and Implication of Peripheral Vascular Leakage in Uveitis. *Ocul Immunol Inflamm*. 2017; 16:1-7.
38. Ong S, **Thomas AS**, Fekrat S. Improvement of Recalcitrant Diabetic Macular Edema After Peritoneal Dialysis. *Ophthalmic Surg Lasers Imaging Retina*. 2017;48(10):834-37.
39. **Thomas AS**, Walter SD, Fekrat S. Bilateral Prefoveal Sub-Internal Limiting Membrane Hemorrhage in Autoimmune Hemolytic Anemia. *Ophthalmic Surg Lasers Imaging Retina*. 2016;47(12):1151-1153
40. **Thomas AS**, Lin P. Ocular manifestations of inflammatory bowel disease. *Curr Opin Ophthalmol*. 2016;27(6):552-560.

41. Kopplin LJ, **Thomas AS**, Cramer S, Kim YH, Yeh S, Lauer AK, Flaxel CJ. Long-Term Surgical Outcomes of Retinal Detachment Associated with Acute Retinal Necrosis. *Ophthalmic Surg Lasers Imaging Retina*. 2016;47(7):660-4.
42. **Thomas AS**, Branham K, Van Gelder RN, Daiger SP, Sullivan LS, Bowne SJ, Heckenlively JR, Pennesi, M. Multimodal Imaging in Wagner Syndrome. *Ophthalmic Surg Lasers Imaging Retina*. 2016;47(6):574-9
43. **Thomas AS**, Redd T, Hwang T. Improving the Transition to Ophthalmology Residency: A Survey of First-Year Ophthalmology Residents. *J Clin Acad Ophthalmol*. 2016;08(01):e10-e18
44. **Thomas AS**, Baynham JT, Flaxel CJ. Macular Holes, Vitelliform Lesions and Mid-Peripheral Retinoschisis in Alport Syndrome. *Retin Cases Brief Rep*. 2016 Spring;10(2):109-11
45. **Thomas AS**, Redd T, Hwang T. The Effect of Systemic Beta Blockers, ACE inhibitors and Angiotensin Receptor Blockers on Development of Choroidal Neovascularization in Patients with Age-Related Macular Degeneration. *Retina*. 2015;35(10):1964-1968.
46. **Thomas AS**, Flaxel CJ, Pennesi M. Spectral-Domain Optical Coherence Tomography and Fundus Autofluorescence Evaluation of Torpedo Maculopathy. *J Pediatr Ophthalmol Strabismus*. 2015;13(52):e8-e10.
47. **Thomas AS**, Flaxel CJ. Vitreoretinal Surgery in Uveitis. *Int Ophthalmol Clin*. 2015;55(2):67-79.

Books/Chapters/Invited manuscripts

- Fekrat S, Finn AP, **Thomas AS**. *The Duke Manual of Vitreoretinal Surgery*. Wolters Kluwer. Forthcoming 2020.
- Thomas AS**. Non-Infectious Intermediate, Posterior, and Panuveitis. In “Uveitis, Current Practices in Ophthalmology”. Singapore: Springer Nature Private Limited 2020.
- Thomas AS**, Toth CA. Introduction to Age-Dependent Features in pediatric OCT Imaging. In “Handbook of Pediatric Retinal OCT and the Eye-Brain Connection”. Elsevier 2019.
- Ong S, **Thomas AS**. Torpedo Maculopathy. In “Handbook of Pediatric Retinal OCT and the Eye-Brain Connection”. Elsevier 2019.
- Thomas AS**. How OCT is Aiding in Uveitis Management. *Retina Specialist*. July 2019.
- Thomas AS**. Minimally invasive management of IOL deposits. *Retina Specialist*. April 2019.
- Fekrat S, **Thomas AS**, Grewal D. *Curbside Consultation in Retina: 49 Clinical Questions*. 2nd ed. New Jersey: Slack Incorporated. 2018.
- Thomas AS**, Grewal D. Toxoplasmosis. In “The Retina Illustrated”. New York: Thieme. 2019.
- Thomas AS**, Jaffe GJ. Birdshot Chorioretinitis. In “The Retina Illustrated”. New York: Thieme. 2019.
- Thomas AS**, Vajzovic L. Bimanual Tissue Manipulation in Vitrectomy. *Retinal Physician*. May 2018.
- Vajzovic L, **Thomas AS**. Tips for Inducing Posterior Vitreous Detachment in Young Patients. *Retinal Physician*. March 2017.
- Thomas AS**, Nagarkatti-Gude N, Lattin D, Simons D, Sandhu R, Edmunds B, Lauer AK. Cataract Surgery to Lower IOP in Narrow Angle and Chronic Angle Closure Glaucoma. *EyeWorld*. 2014;19(10):106-108.
- Watanabe M, Wikenheiser J, Ramirez-Bergeron D, Flores S, Dangol A, Karunamuni G, **Thomas AS**, Montano M, Ashwath R. Cardiac vasculature; development, and pathology. In “Vasculogenesis”, ISBN 978-953-307-882-3. InTech. Open Access Publisher

Select Abstracts/Meeting Presentations:

- Thomas AS**, Hsu T, House R, Kelly MP, Toth CA, Materin MA, Vajzovic L. Microvascular Features of Treated Retinoblastoma Tumors in Children Assessed Using Optical Coherence Tomography Angiography. Submitted. Presented at the American Society of Retina Specialists Annual Meeting, July 29, 2019, Chicago.
- Mirzania D, **Thomas AS**, Stinnett SS, Fekrat S. Gender Differences in Presentation, Treatment Patterns and Clinical Outcomes in Central Retinal Vein Occlusion. Presented at the Association for Research in Vision and Ophthalmology, April 30, 2019, Vancouver.
- Thomas AS**, Kozma-Wiebe P, Meunier E, Jaffe GJ. Clinical Impact of Foveal Outer Retinal Abnormalities in Eyes with Symptomatic Vitreomacular Adhesion in the OASIS Study. Presented at the Retina Society annual meeting, September 13, 2018, San Francisco.

- Thomas AS**, Berry D, Stinnett SS, Fekrat S, Grewal DS. Association of Disorganization of Retinal Inner Layers with Clinical Outcomes and Fluorescein Angiographic Features in Central Retinal Vein Occlusion. Presented at the American Society of Retina Specialists Annual Meeting, July 23, 2018, Vancouver.
- Yu JJ, **Thomas AS**, Stinnett SS, Yoon S, Fekrat S, Grewal DS. Role of Disorganization of Retinal Inner Layers in Predicting Visual Outcomes and Its Correlation with Ischemic Index in Branch Retinal Vein Occlusion. Presented at the American Society of Retina Specialists Annual Meeting, July 23, 2018, Vancouver.
- Birnbaum F, Mir T, **Thomas AS**, Yoon S, Fekrat S. The Impact and Implication of a Fovea-Involving Intraretinal Hemorrhage in Patients with Central Retinal Vein Occlusion. Presented at the American Society of Retina Specialists Annual Meeting, July 23, 2018, Vancouver.
- Thomas GN, Kiew SY, **Thomas AS**, Fekrat S. Central Retinal Vein Occlusion: Antiplatelet Agents and Anticoagulants. Presented at the American Society of Retina Specialists Annual Meeting, July 23, 2018, Vancouver.
- Kiew SY, Thomas GN, **Thomas AS**, Fekrat S. Characteristics of Central Retinal Vein Occlusion (CRVO) in African-Americans. Presented at the American Society of Retina Specialists Annual Meeting, July 23, 2018, Vancouver.
- Kim J, **Thomas AS**, Yoon S, Birnbaum F, Mukherjee N, Khan K, Powers J, Gomez-Caraballo M, Fekrat S. Longitudinal Changes in Choroidal Thickness in Branch Retinal Vein Occlusion With and Without Cystoid Macular Edema. Presented at the Association for Research in Vision and Ophthalmology, May 3, 2018, Honolulu.
- Ali M, **Thomas AS**, Fekrat S. Morphologic Changes in the Optic Nerve Head of Eyes with Central Retinal Vein Occlusion Treated with Multiple Intravitreal Injections. Presented at the Association for Research in Vision and Ophthalmology, May 3, 2018, Honolulu.
- Goerlitz-Jessen M, Mir T, **Thomas AS**, Yoon S, Fekrat S. The Impact and Implication of a Fovea-Involving Intraretinal Hemorrhage in Patients with Central Retinal Vein Occlusion. Presented at the Association for Research in Vision and Ophthalmology, May 3, 2018, Honolulu.
- Thomas AS**, Folgar FA, Jaffe GJ, Toth CA, Mahmoud TH. Clinical Impact of Subfoveal Lucency Before or After Treatment of Vitreomacular Traction without Macular Hole in the Phase III Trials of Ocriplasmin Vitreolysis. Presented at the American Academy of Ophthalmology Annual Meeting, November 14, 2017, New Orleans.
- Thomas AS**, Mahmoud TH. Autologous Retinal Transplant for Chronic Retinal Detachment with Proliferative Vitreoretinopathy Without Macular Hole. Presented at the American Academy of Ophthalmology Annual Meeting, November 10, 2017, New Orleans.
- Rothman AL, **Thomas AS**, Khan K, Fekrat S. Central Retinal Vein Occlusion in Young Individuals: A Comparison of Risk Factors and Clinical Outcomes. Presented at the American Academy of Ophthalmology Annual Meeting, November 10, 2017, New Orleans.
- Thomas AS**, Folgar FA, Jaffe GJ, Toth CA, Mahmoud TH. Clinical Impact of Subfoveal Lucency Before or After Treatment of Vitreomacular Traction without Macular Hole in the Phase III Trials of Ocriplasmin Vitreolysis. Presented at the Retina Society annual meeting, October 7, 2017, Boston.
- Finn AP, **Thomas AS**, Stinnett SS, Grewal DS, Jaffe GJ. The Role of Cystoid Macular Edema as a Marker in the Progression of Non-Paraneoplastic Autoimmune Retinopathy. Presented at the Retina Society annual meeting, October 7, 2017, Boston.
- Berry D, **Thomas AS**, Grewal DS, Fekrat S. Association of Disorganization of the Retinal Inner Layers with Long-Term Visual Acuity in Central Retinal Vein Occlusion. Presented at the Retina Society annual meeting, October 7, 2017, Boston.
- Thomas AS**, Long A, Stinnett SS, Keenan R, Jaffe GJ. Perivascular Thickening on Optical Coherence Tomography as a Marker of Inflammation in Birdshot Retinochoroiditis. Presented at the American Society of Retina Specialists Annual Meeting, August 13, 2017, Boston.
- Thomas AS**, Mahmoud TH. Autologous Retinal Transplant. Presented at the American Society of Retina Specialists Annual Meeting, August 12, 2017, Boston.
- Thomas AS**, Fekrat S. Use of the Ischemic Index on Widefield Fluorescein Angiography to Characterize a Central Retinal Vein Occlusion as Ischemic or Non-Ischemic. Presented at the Association for Research in Vision and Ophthalmology, May 9, 2017, Baltimore.

- Finn AP, **Thomas AS**, Stinnett SS, Grewal DS, Jaffe GJ. The Role of Cystoid Macular Edema as a Marker in the Progression of Non-Paraneoplastic Autoimmune Retinopathy. Presented at the Association for Research in Vision and Ophthalmology, May 7, 2017, Baltimore.
- Khan K, **Thomas AS**, Rothman A, Fekrat S. Central Retinal Vein Occlusion in Younger Patients: Causes, Presentation and Outcomes. Presented at the Association for Research in Vision and Ophthalmology, May 9, 2017, Baltimore.
- Leitner D, **Thomas AS**, Fekrat S. Bilateral Retinal Vein Occlusions. Presented at the Association for Research in Vision and Ophthalmology, May 8, 2017, Baltimore.
- Constantine R, **Thomas AS**, Berry D, Fekrat S. Epidemiologic Data and Visual Outcomes in Patients With Central Retinal Vein Occlusion in the Anti-VEGF Era. Presented at the Association for Research in Vision and Ophthalmology, May 8, 2017, Baltimore.
- Thomas AS**, Redd T, Campbell JP, Suhler EB, Rosenbaum JT, Lin P. The Impact and Implication of Peripheral Vascular Leakage on Ultra Widefield Fluorescein Angiography in Uveitis. Presented at the Association for Research in Vision and Ophthalmology, May 2, 2016, Seattle, Washington.
- Malihi, M, **Thomas AS**, Wilkinson J, Bailey ST, Choi D. Persistent Outer Retinal Defects (Micro Holes) following Macular Hole Surgery. Presented at the Association for Research in Vision and Ophthalmology, May 1, 2016, Seattle, Washington.
- Pennesi M, **Thomas AS**, Ge Z, Che R. A Case of Jalili Syndrome. Presented at Meeting of the International Society for Genetic Eye Diseases and Retinoblastoma. Aug 7, 2015, Halifax, Nova Scotia, Canada.
- Pennesi M, **Thomas AS**. VCAN-associated Retinopathy. Presented at the Macula Society Annual Meeting, Feb 25, 2015, Scottsdale, Arizona.
- Redd T, **Thomas AS**, Hwang T. Improving the Transition to Ophthalmology Residency: A Survey of First-Year Ophthalmology Residents. Presented at the Association for Research in Vision and Ophthalmology, May 8, 2014, Orlando, Florida.
- Thomas AS**, Redd T, Hwang T. The Effect of Select Systemic Antihypertensives on the Development of Choroidal Neovascularization in Age-Related Macular Degeneration. Presented at the Association for Research in Vision and Ophthalmology, May 7, 2014, Orlando, Florida.
- Singerman LJ, Himmelman DR, Singerman B, **Thomas AS**, Newman L, Coney JM, Schartman JP, Novak MA. Impact of Lucentis on Psychological Morbidity in Patients with Macular Edema and Neovascularization Secondary to Retinal Vein Occlusion. Presented at the Association for Research in Vision and Ophthalmology, May 9, 2012, Ft. Lauderdale, Florida.
- Thomas AS**, Seballos R, Lang R, Singh RP. Does Spectral Domain OCT Provide Any Additional Useful Information to Non-Mydriatic Fundus Photography in the Screening of Asymptomatic Patients? Presented at the Association for Research in Vision and Ophthalmology, May 6, 2012, Ft. Lauderdale, Florida.

HONORS & AWARDS

ASRS Honor Award	2019
Outstanding Young Alumni Award Purdue University	2019
Hornaday Fellow Award for Excellence in Clinical Care, Ethics and Research	2018
Health Sciences Outstanding Young Alumni Award	2018
VitBuckle Society Travel Grant	2018
Ronald G. Michels Fellowship Award	2017
National Eye Institute Travel Grant	2017
Cole Eye Summit Travel Grant	2017
Retina World Congress Travel Grant	2017
Medical Student Teaching Award	2014, 2015, 2016
Award for Excellence in Ophthalmic Knowledge Acquisition	2014, 2015, 2016
Casey Eye Institute Excellence Award	2015
Heed Resident Retreat	2015
Edward N. McLean Community Service Award	2015
Alfred Maschke Award for Excellence in the Art and Practice of Medicine	2012
Alpha Omega Alpha	2012
Medical Student Teacher Award	2010
Mortar Board Scholarship	2008
Health Sciences Distinguished Student Award	2008
Best Teacher in Indiana Award for Kaplan Inc	2008
Commencement Day Respondent	2008

ACTIVE CLINICAL TRIALS

Title: Investigator
Project Title: **CRTH258C2301 (“Raven”)**
Participation Dates: 2019 –present
Principal Investigator: Everton L. Arrindell, M.D.
Sponsor: Novartis
Brief Description: An eighteen-month, two-arm, randomized, double-masked, multicenter, Phase III study assessing the efficacy and safety of Brolucizumab versus Aflibercept in adult patients with visual impairment due to Macular Edema secondary to Central Retinal Vein Occlusion.

Title: Investigator
Project Title: **GR40550 (“Pagoda”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: F. Hoffmann-La Roche LTD
Brief Description: A Phase III, multicenter, randomized, visual assessor-masked, active-comparator study of the efficacy, safety, and pharmacokinetics of the port delivery system with Ranibizumab in patients with Diabetic Macular Edema.

ACTIVE CLINICAL TRIALS (Continued)

Title: Investigator
Project Title: **MYL-1701P (“Insight”)**
Participation Dates: 2018 – present
Principal Investigator: David A. Reichstein, M.D.
Sponsor: Mylan Inc.
Brief Description: A Multi Center, Randomized, Double-Masked, Active-Controlled, Comparative Clinical Study to Evaluate the Efficacy and Safety of MYL-1701P and Eylea® in Subjects with Diabetic Macular Edema

Title: Investigator
Project Title: **GR40398 (“Rhine”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: F. Hoffmann-La Roche LTD
Brief Description: A Phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the efficacy and safety of Faricimab (RO6867461) in patients with Diabetic Macular Edema

Title: Investigator
Project Title: **The Tristar Study**
Participation Dates: 2018 – 2019
Principal Investigator: Eric W. Schneider, M.D.
Sponsor: Regeneron Pharmaceuticals, Inc.
Brief Description: A Phase IV, Two-week retreatment interval study for treated Age-related Macular Degeneration refractory to monthly aflibercept

Title: Investigator
Project Title: **GR40306 (“Tenaya”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: F. Hoffmann-La Roche LTD
Brief Description: A Phase III, multicenter, randomized, double-masked, active comparator-controlled study to evaluate the efficacy and safety of Faricimab in patients with Neovascular Age-related Macular Degeneration

Title: Investigator
Project Title: **SPIAM-202**
Participation Dates: 2019 – present
Principal Investigator: Eric W. Schneider, M.D.
Sponsor: Stealth Bio Therapeutics Inc.
Brief Description: A Phase 2, randomized, double-masked, placebo-controlled clinical study to evaluate the safety, efficacy, and pharmacokinetics of subcutaneous injections of Elamipretide in

subjects with Age-related Macular Degeneration with
Geographic Atrophy (ReCLAIM-2)

ACTIVE CLINICAL TRIALS (Continued)

Title: Investigator
Project Title: **GR40549 (“Portal”)**
Participation Dates: 2018 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: F. Hoffmann-La Roche LTD
Brief Description: A phase III, multicenter, open-label extension study to evaluate the long-term safety and tolerability of the Port Delivery System with ranibizumab in patients with neovascular age-related macular degeneration

Title: Investigator
Project Title: **KHB-1801 (“Panda”)**
Participation Dates: 2019 – present
Principal Investigator: Brandon G. Busbee, M.D.
Sponsor: Chengdu Kanghong Biotechnology Co., Ltd.
Brief Description: A multicenter, double-masked, randomized, dose-ranging trial to evaluate the efficacy and safety of Conbercept intravitreal injection in subjects with Neovascular Age-related Macular Degeneration

Title: Investigator
Project Title: **GR40973 (“Gallego”)**
Participation Dates: 2019 – present
Principal Investigator: Brandon G. Busbee, M.D.
Sponsor: Genentech, Inc.
Brief Description: A Phase II, multicenter, randomized, single-masked, sham-controlled study to assess safety, tolerability, and efficacy of intravitreal injections of FHTR2163 in patients with Geographic Atrophy secondary to Age-related Macular Degeneration

Title: Investigator
Project Title: **KSI-CL-102 (“Dazzle”)**
Participation Dates: 2019 – present
Principal Investigator: Brandon G. Busbee, M.D.
Sponsor: Kodiak Sciences Inc.
Brief Description: A Phase 2, Prospective, Randomized, Double-masked, Active Comparator- controlled, Multi-center Study to Investigate the Efficacy and Safety of Repeated Intravitreal Administration of KSI-301 in Subjects with Neovascular (Wet) Age-related Macular Degeneration

ACTIVE CLINICAL TRIALS (Continued)

Title: Investigator
Project Title: **7317-CL-102 (“Astellas”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: Astellas Institute for Regenerative Medicine
Brief Description: A staged study incorporating a Phase 1b, multicenter, unmasked, dose escalation evaluation of safety and tolerability and a Phase 2, multicenter, unmasked, randomized, parallel-group, controlled, proof of concept investigation of efficacy and safety of ASP7317 for atrophy secondary to Age-related Macular Degeneration

Title: Investigator
Project Title: **GR40548 (“Archway”)**
Participation Dates: 2018 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: F. Hoffmann-La Roche LTD
Brief Description: A Phase III, Multi-Center, Randomized, Double-Masked, Sham-Controlled Study to Compare the Efficacy and Safety of Intravitreal APL-2 Therapy with Sham Injections in Patients with Geographic Atrophy (GA) Secondary to Age-Related Macular Degeneration (AMD)

Title: Investigator
Project Title: **APL2-304 (“Oaks”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: Apellis Pharmaceuticals
Brief Description: A Phase III, Multi-Center, Randomized, Double-Masked, Sham-Controlled Study to Compare the Efficacy and Safety of Intravitreal APL-2 Therapy with Sham Injections in Patients with Geographic Atrophy (GA) Secondary to Age-Related Macular Degeneration (AMD)

Title: Investigator
Project Title: **APL2-303 (“Derby”)**
Participation Dates: 2019 – present
Principal Investigator: Carl C. Awh, M.D.
Sponsor: Apellis Pharmaceuticals
Brief Description: A Phase III, Multi-Center, Randomized, Double-Masked, Sham-Controlled Study to Compare the Efficacy and Safety of Intravitreal APL-2 Therapy with Sham Injections in Patients with Geographic Atrophy (GA) Secondary to Age-Related Macular Degeneration (AMD)

ACTIVE CLINICAL TRIALS (Continued)

Title:	Investigator
Project Title:	ADVM-022-01 (“Optic”)
Participation Dates:	2018 – present
Principal Investigator:	Brandon G. Busbee, M.D.
Sponsor:	Adverum Biotechnologies, Inc.
Brief Description:	An Open Label Phase 1 Study of ADVM-022 (AAV.7m8-aflibercept) in Neovascular (Wet) Age-Related Macular Degeneration