

December 6, 2023

*Christine Kay, M.D.
December 6, 2023*

Christine Nichols Kay, M.D.

(Maiden name: Christine Michelle Nichols)

DOB: 08-09-1979

Vitreoretinal Associates
4340 Newberry Road
Suite 202
Gainesville, FL 32607

PO Box 674
McIntosh, FL 32664
813-500-9725

EDUCATION

2009-2011	University of Iowa , Iowa City, IA Vitreoretinal Surgery Fellowship
Summer 2009	Bascom Palmer Eye Institute , Miami, FL; Visiting Fellow under mentorship of Dr. Harry Flynn
2006-2009	University of South Florida , Tampa, FL Ophthalmology Residency
2005-2006	Roanoke Carilion Memorial Hospital , Roanoke, VA Transitional Internship
2001-2005	University of Florida , Gainesville, FL Doctor of Medicine, May 2005
1998-2001	Harvard University , Cambridge, MA Bachelor of Arts in Neurobiology; <i>magna cum laude</i>
Summer 1999	Oxford University , Oxford, England Study Abroad program in English Literature
1997-1998	Duke University , Durham, NC Bachelor of Arts Candidate
1994-1997	Bloomingdale Senior High School , Valrico, FL Valedictorian

CERTIFICATIONS

2003	USMLE, Part I
2004	USMLE, Part II Clinical Knowledge
2005	USMLE Part II Clinical Skills and USMLE Part III
2010	American Board of Ophthalmology Written exam – Passed
2010	American Board of Ophthalmology Oral exam – Passed

LICENSES

<u>State</u>	<u>Number</u>	<u>Type</u>	<u>Issued</u>	<u>Expires</u>
Florida	ME99947	Permanent	9/08/2007	1/31/2024
Iowa	38258	Permanent	2/20/2009	8/01/2011

PROFESSIONAL POSITIONS

9/14-present	Vitreoretinal Associates; Gainesville, Florida; Shareholder/Partner
9/14-present	North Florida Surgical Pavilion
9/14-present	Affiliate Assistant Professor in the Department of Ophthalmology at the University of South Florida; Tampa, Florida
2020-present	Clinical Ophthalmology Advisor/consultant for Atsena Therapeutics
2023-present	Consultant for Kiora Pharmaceuticals
2022-present	Consultant for Kodiak
2022-present	Consultant for Ascidian Therapeutics
2018-present	Consultant for Novartis
2018-2020	Consultant for Astellas
2021-2021	Consultant for 4D Therapeutics
2020-present	Consultant for Foundation Fighting Blindness
2017-2020	Speaker's Bureau and Consultant for Spark Therapeutics
8/11-8/2014	Assistant Professor in Department of Ophthalmology, Vitreoretinal Surgery, University of Florida. Director Vitreoretinal surgical service Vitreoretinal fellowship director, Director electrophysiology service Director, Vitreoretinal service
9/13-present	Independent Medical Safety Monitor (IMSM) for the New Enrollment Post-Approval Study of the Argus® II Retinal Prosthesis System
10/14-present	Member of Data Safety Monitor Board for Phase 2 Choroideremia Gene Therapy Clinical Trial, ClinicalTrials.gov identifier: NCT02553135

December 6, 2023

7/07-6/09	Fee Basis Ophthalmologist James A. Haley Veterans Administration; Tampa, FL
7/03-8/03	Summer Intern, Public Speaker for Cardiovascular Health Northeast Florida AHEC; Jacksonville, FL
5/00-8/00	Research Intern Mass General Hospital; Cambridge, MA
1999-2001	Multi-Disciplinary Institute for Neuropsychological Development Intern; Cambridge, MA
1999-2001	Organic Chemistry and Physics Tutor Harvard Bureau of Study Council; Cambridge, MA
1998	Howard Hughes Research Fellow Duke University; Durham, NC
1997	Ophthalmic technician Brandon Cataract Center and Eye Clinic; Brandon, FL

HONORS AND AWARDS

2018	ASRS Senior Honor Award
2017	Inducted into Macula Society
2017	Inducted into Retina Society
2012	Honor Award, American Society of Retina Specialists
2008-2009	Chief Resident, USF Ophthalmology residency
2009	USF Health Science Research Day: Outstanding Poster in Clinical Studies and Case Reports
2008	2 nd Place at Florida Society of Ophthalmology Resident Research Symposium
2007	Arnold P. Gold Foundation Humanism and Excellence in Teaching Award - Carilion Roanoke Memorial Hospital
2002	Alpha Omega Alpha Research Award
2001	Harvard Hoopes Prize/Scholarship for Excellent Senior Honors Thesis
2000	Harvard College Scholarship (merit based)
2000	Harvard College Research Program Grant for neuroscience research
1998	Phi Eta Sigma Honor Society, Duke University
1998	Dean's List with Distinction, Duke University
1998	Howard Hughes Research Grant for undergraduate research
1997	Valedictorian; Bloomingdale High School, Brandon, FL

Editorial Roles:

Ophthalmic Surgery Lasers and Imaging: Retina
RETINA
PLoS One
IVOS
Human Mutation

GRANTS/RESEARCH EXPERIENCE

2023-present	Phase 3 Oral N-Acetylcysteine for Retinitis Pigmentosa (NAC Attack)
--------------	---

	trial Sponsor: NEI Role: PI NCT: 05537220
2021-present	Phase 3 Randomized, Controlled Study of AAV5-RPGR for the Treatment of X-linked Retinitis Pigmentosa Associated With Variants in the RPGR Gene Sponsor: MeiraGTx/Janssen Role: Principal Investigator/Surgeon NCT: 04671433
2021-present	EXPLORE: A Phase II, Outcomes Assessor-masked, Multicentre, Randomised Study to Evaluate the Safety and Efficacy of Two Doses of GT005 Administered as a Single Subretinal Injection in Subjects With Geographic Atrophy Secondary to Age-related Macular Degeneration. Sponsor: Gyroscope Role: Principal Investigator/Surgeon NCT: NCT04437368
2021-present	HORIZON: A Phase II, Open-label, Outcomes-assessor Masked, Multicentre, Randomised, Controlled Study to Evaluate the Safety and Efficacy of Two Doses of GT005 Administered as a Single Subretinal Injection in Subjects With Geographic Atrophy Secondary to Age-related Macular Degeneration Sponsor: Gyroscope Role: Principal Investigator/Surgeon NCT: NCT04566445
2021-present	A Phase 2, Open-label Study to Explore the Pharmacodynamics of Two Doses in Two Formulations of RGX-314 Gene Therapy Administered Via Subretinal Delivery in Participants With Neovascular Age-related Macular Degeneration Sponsor: Regenxbio NCT: NCT04832724 Role: Principal Investigator/Surgeon
2021-present	A Trial to Evaluate the Efficacy, Durability, and Safety of KSI-301 Compared to Aflibercept in Participants With Diabetic Macular Edema (DME). Sponsor: Kodiak NCT: NCT04611152 Role: Principal Investigator
2021-present	A Study to Evaluate the Efficacy, Durability, and Safety of KSI-301 Compared to

	Aflibercept in Patients With Macular Edema Due to Retinal Vein Occlusion (RVO) Sponsor: Kodiak NCT: NCT04592419 Role: Principal Investigator
2020-present	A Phase 3 Multicenter, Randomized, Double Masked, Sham- Controlled Clinical Trial to Assess the Safety and Efficacy of Intravitreal Administration of Zimura (Complement C5 Inhibitor) in Patients With Geographic Atrophy Secondary to Age-Related Macular Degeneration. Sponsor: Kodiak NCT: NCT04435366 Role: Principal Investigator
2020-present	A Study to Evaluate the Safety and Tolerability of QR-1123 in Subjects With Autosomal Dominant Retinitis Pigmentosa Due to the P23H Mutation in the RHO Gene. Sponsor: ProQR Therapeutics NCT: NCT04123626 Role: Principal Investigator
2019-present	Phase 3 study of Alk-001 in Geographic Atrophy (SAGA) Sponsor: Alkeus NCT: 03845582 Role: Principal Investigator
2019-present	A clinical trial of retinal gene therapy for X-linked retinitis pigmentosa (XIRIUS) Sponsor: Nightstar Therapeutics ClinicalTrials.gov Identifier: NCT03116113 Role: Principal investigator/Surgeon
2018-2019	Zimura compared to sham in patients with autosomal recessive Stargardt disease (STGD1) Sponsor: Ophthotech NCT03364153 Role: Principal Investigator
2017-present	Rate of Progression in USH2A related Retinal Degeneration (RUSH2A) Sponsor: Jaeb Center for Health Research Clinical Trials Identifier: NCT03146078 Role: Principal Investigator
2016-present	Phase 1/2 Safety and Efficacy Trial of AAV Gene Therapy in Patients with CNGB3 Achromatopsia Sponsored by AGTC Role: Principal Investigator ClinicalTrials.gov identifier: NCT02599922

2016-present	Phase 1/2 Safety and Efficacy Trial of AAV Gene Therapy in Patients with CNGA3 Achromatopsia Sponsored by AGTC Role: Principal Investigator
2015-present	Phase 2 Tolerability and Effects of ALK-001 on Stargardt Disease. Sponsored by Alkeus. (September 2015 – present) Role: Principal Investigator. ClinicalTrials.gov identifier: NCT02402660
2013-2016	Clinical and genetic characterization of individuals with achromatopsia. Sponsored by NEI and AGTC. Role: Principal Investigator. ClinicalTrials.gov identifier: NCT01846052
2016	Phase 2 Study of the Efficacy and Safety of QLT091001 in Subjects with Inherited Retinal Disease (IRD) Caused by Mutation in Retinal Pigment Epithelium Protein 65 (<i>RPE65</i>) or Lecithin:Retinol Acyltransferase (<i>LRAT</i>). Sponsor: QLT Role: Principal Investigator - completed site startup, however trial was suspended by sponsor before enrollment.
2011-2016	Foundation Fighting Blindness, Career Development Award (August 1, 2011 – July 31, 2016). Role: Principal Investigator. Total five year award amount: \$375,000. Co-sponsors: Edwin Stone, M.D. Ph.D. and William Hauswirth, Ph.D. “Development and optimization of a viral gene delivery system for the treatment of CNGB3-associated Achromatopsia.” University of Florida/Vitreoretinal Associates
2013-2014	NIH sponsored study: Vascular Reparative Mechanism by ACE2/ Ang-(1-7) in Diabetes. 9/1/11 – 6/30/16 (\$914,139) (Co-PI of Clinical Trial component of study.) Principal Investigators: Dr. Grant and Dr. Raizada University of Florida.
2013-2014	A Randomized, Double-masked, Placebo-controlled Study of the Safety and Efficacy of Gevokizumab in the Treatment of Active Non-infectious Intermediate, Posterior, or Pan-Uveitis.(Eyeguard A Study) Sponsor: XOMA. (4/11/2013-4/11/2017) (\$61,092) 0.12 calendar months (Role: Principal Investigator.) <i>University of Florida.</i>

2011-2014	Toxicology studies for LHON AAV therapy. (Board-certified ophthalmologist performing safety fundus exams on treated rats post-AAV therapy.) University of Florida.
2009-2011	Optical coherence tomography in Best disease: using imaging modalities to understand disease pathogenesis. Faculty Sponsor: Edwin Stone, M.D., Ph.D. University of Iowa.
2009-2011	VEGF Trap-Eye: Investigation of Efficacy and Safety in Wet AMD (VIEW 1). (Sub-investigator). University of Iowa.
2009-2011	Comparison of AMD Treatments Trials (CATT). (Sub-investigator). University of Iowa.
2007-2009	Digital Interference Holography in Ophthalmology Faculty Sponsor: Myung Kim, Ph.D. and David Richards, M.D. University of South Florida, Department of Physics
2004-2005	The effect of silicone oil on intraocular pressure Faculty Sponsor: R. Ratnakaram, M.D. University of Florida, Department of Ophthalmology
1999-2001	"The expression of alpha-Synuclein in Dementia with Lewy Bodies" Faculty Sponsor: Anne Young, M.D., Ph.D., Harvard College Harvard undergraduate neurobiology honors tract thesis Mass General Hospital; Boston, MA
1997-1998	Neurobiology research: the effect of neurotrophic factors in ferret visual cortex Faculty Sponsor: Donald Lo, Ph.D., Duke University Duke University Bryan Research Center; Durham, NC

CONSULTING POSITIONS:

Atsena Therapeutics - consultant
Kodiak - consultant
Kiora - consultant
Ascidian Therapeutics - consultant
Astellas - consultant
Sanofi - Advisory board meeting participant (AAO 2018)
NightStar Therapeutics- Advisory Board (AAO 2018)
Novartis - consultant
4D Therapeutics - consultant
Spark Therapeutics - consultant

Choroideremia Bascom Palmer trial – Data Safety Monitor
Second Sight (ARGUS2) – Independent Medical Safety Monitor

VISITING FELLOWSHIPS IN INHERITED RETINAL DISEASE

- 1) Byron Lam, Bascom Palmer Eye Institute; Miami, Florida (May 2012)
- 2) Gerry Fishman, Lighthouse for the Blind; Chicago, Illinois (September 2012)
- 3) Dick Weleber, Casey Eye Institute; Portland, Oregon (May 2013)
- 4) Isabelle Audo, Paris Eye Institute, Paris France (October 2013)

PUBLICATIONS (peer-reviewed)

[In print or forthcoming]

Samuel G. Jacobson, Artur V. Cideciyan, Allen C. Ho, Alejandro J. Roman, Vivian Wu, Alexandra V. Garafalo, Alexander Sumaroka, Arun K. Krishnan, Malgorzata Swider, Abraham A. Mascio, **Christine N. Kay**, Dan Yoon, Kenji P. Fujita, Sanford L. Boye, Igor V. Peshenko, Alexander M. Dizhoor, Shannon E. Boye. Night vision restored in days after decades of congenital blindness. *iScience*, **2022**

Mendell JR, Al-Zaidy SA, Rodino-Klapac LR, Goodspeed K, Gray SJ, **Kay CN**, Boye SL, Boye SE, George LA, Salabarria S, Corti M, Byrne BJ, Tremblay JP. Current Clinical Applications of In Vivo Gene Therapy with AAVs. *Mol Ther*. 2021 Feb 3;29(2):464-488.

Gregori NZ, Hussain RM, **Kay CN**, Lam BL, Dermer H, Davis JL. Current Concepts and Emerging Gene Therapies for Inherited Retinal Diseases. *Int Ophthalmol Clin*. 2019 Winter;59(1):83-110.

Duncan JL, Liang W, Maguire MG, Audo I, Ayala AR, Birch DG, Carroll J, Cheetham JK, Esposti SD, Durham TA, Erker L, Farsiu S, Ferris FL 3rd, Heon E, Hufnagel RB, Iannaccone A, Jaffe GJ, **Kay CN**, Michaelides M, Pennesi ME, Sahel JA; Foundation Fighting Blindness Consortium Investigator Group. Baseline Visual Field Findings in the RUSH2A Study: Associated Factors and Correlation With Other Measures of Disease Severity. *Am J Ophthalmol*. 2020 Nov;219:87-100.

Strampe MR, Huckenpahler AL, Higgins BP, Tarima S, Visotcky A, Stepien KE, **Kay CN**, Carroll J. Intraobserver Repeatability and Interobserver Reproducibility of Ellipsoid Zone Measurements in Retinitis Pigmentosa. *Transl Vis Sci Technol*. 2018 Jun 4;7(3):13

Dedania VS, Ghodasra DH, Kay CN, Roseman R, Johnson MW. CILIOCHOROIDAL EFFUSION AND ACUTE MACULAR NEURORETINOPATHY ASSOCIATED WITH CERVICAL TRACTION THERAPY. *Retin Cases Brief Rep*. 2018 Winter;12(1):24-28.

Langlo, C.S., Erker, L.R., Parker, M., Patterson, E.J., Higgins, B.P., Summerfelt, P., Razeen, M.M., Collison, F.T., Fishman, G.A., **Kay, C.N.**, Zhang, J., Weleber, R.G., Yang, P., Pennesi, M.E., Lam, B.L., Chulay, J.D., Dubra, A., Hauswirth, W.W., Wilson, D.J., Carroll, J., ACHM-001 Study Group. Repeatability and longitudinal assessment of foveal cone structure in CNGB3-associated achromatopsia. *Retina*. 2017 Jan 31. doi: 10.1097/IAE.0000000000001434.

Sun LW, Johnson RD, Langlo CS, Cooper RF, Razeen MM, Russillo MC, Dubra A, Connor TB Jr, Han DP, Pennesi ME, **Kay CN**, Weinberg DV, Stepien KE, Carroll J. Assessing Photoreceptor Structure in Retinitis Pigmentosa and Usher Syndrome. *Invest Ophthalmol Vis Sci*. 2016 May 1;57(6):2428-42.

Langlo C.S., Patterson E.J., Higgins B.P., Summerfelt P., Razeen M.M., Erker L.R., Parker M., Collison F.T.,

Fishman G.A., **Kay C.N.**, Zhang J., Weleber R.G., Yang P., Wilson D.J., Pennesi M.E., Lam B.L., Chiang J., Chulay J.D., Dubra A., Hauswirth W.W., Carroll J., ACHM-001 Study Group. Residual foveal cone structure in CNGB3-associated achromatopsia. *Invest Ophthalmol Vis Sci.* 2016 Aug 1;57(10):3984-95. doi: 10.1167/iovs.16-19313.

Sun LW, Johnson RD, **Langlo CS**, Cooper RF, Razeen MM, Russillo MC, Dubra A, Connor TB Jr, Han DP, Pennesi ME, **Kay CN**, Weinberg DV, Stepien KE, Carroll J. Assessing Photoreceptor Structure in Retinitis Pigmentosa and Usher Syndrome. *Invest Ophthalmol Vis Sci.* 2016 May 1;57(6):2428-42. doi: 10.1167/iovs.15-18246.

Dedania VS, Ghodasra DH, **Kay CN**, Roseman R, Johnson MW. "Ciliochoroidal Effusion and Acute Macular Neuroretinopathy Associated with Cervical Traction Therapy." Accepted to *Retina Cases and Brief Reports*.

Choi C, Zhang L, Abramoff MD, Sonka M, Shifera A, **Kay CN**. Evaluating Efficacy of Aflibercept in Refractory Exudative Age-Related Macular Degeneration with OCT segmentation volumetric analysis. *Ophthalmic Surgery Lasers and Imaging.* 2016 Mar 1;47(3):245-51

Shifera AS, **Kay CN**. Early-onset X-linked retinitis pigmentosa in a heterozygous female harboring an intronic donor splice site mutation in the retinitis pigmentosa GTPase regulator gene. *Ophthalmic Genetics.* 2015;36(3):251-6. doi: 10.3109/13816810.2013.879597.

Chen JJ, Sohn EH, Mahajan VM, **Kay CN**, Boldt HC, Folk JC, Russell SR. "Response of Foveal Cystoid Changes from Idiopathic Juxtafoveal Telangiectasia to Carbonic Anhydrase Inhibitors." *Retina.* 2014 Jul;34(7):1400-6.

Bhullar SS, Gray MJ, **Kay CN**. "Role for rapid surgical intervention in uveal effusion syndrome with associated optic neuropathy." *Ophthalmic Surg Lasers Imaging Retina.* 2014 Apr 4;45(3):e11-3. doi: 10.3928/23258160-20140331-04.

Cohen J, Bhullar S, Kasuga D, Boye S, Elhalis H, **Kay CN**. "Retinal pigment epithelial detachment in ABCA4-associated Stargardt disease." *Ophthalmic Surgery Lasers and Imaging.* 2013 Jul 1;44(4):401-4.

Kay CN, Ryals RC, Aslanidi GV, Min SH, Ruan Q, Dyka FM, Kasuga D, Ayala AE, Van Vliet K, Agbandje-McKenna M, Hauswirth WW, Boye SL, Boye SE. "Targeting Photoreceptors Via Intravitreal Delivery Using Novel, Capsid-Mutated AAV Vectors." *PLoS One* 2013 Apr 26;8(4):e62097.

Bhalla S, Joshi D, Bhullar S, Kasuga D, Park Y, **Kay CN**. Long term follow-up data for efficacy and safety of treatment of retinitis pigmentosa with valproic acid." *British Journal Ophthalmology* 2013 Jul;97(7):895-9.

Hollsten JE, McClintock M, Samy H, Peden M, **Kay CN**. "Fulminant chorioretinitis and papillitis secondary to coxsackievirus B virus presenting as acute posterior multifocal placoid pigment epitheliopathy with positive response to IVIG." Accepted to *Retina Cases and Brief Reports*.

McClintock M, Peden MC, **Kay CN**. "Spectral domain optical coherence tomography findings in siblings with CNGB3-associated achromatopsia." *Adv. Exp. Med. Biol* 2014;801:551-7.

Boye SL, Peshenko IV, Huang WC, Min SH, McDoom I, **Kay CN**, Liu X, Dyka FM, Foster TC, Umino Y, Karan S, Jacobson SG, Baehr W, Dizhoor A, Hauswirth WW and Boye SE. "AAV-mediated gene therapy in the guanylate cyclase (RetGC1/RetGC2) double knockout mouse model of Leber congenital amaurosis." *Hum Mol Gene Therapy* 2013 Feb;24(2):189-202.

Russell SR, Sohn EH, Boldt HC, Folk JC, Tarantola RM, **Kay CN**, Mahajan VM. "Elimination of infusion bubbles and uncontrolled reflux in the Alcon constellation vitrectomy vision system." *Retina* 2013 Apr;33(4):803-6.

Kay CN, Quiram P, Mahajan VM. "23-Gauge Pediatric Vitrectomy using Limbus-based Trocar-Cannulas." *Retina*. 2012 May;32(5):1023-7.

Kay CN, Abramoff MD, Mullins RF, Kinnick TR, Lee K, Chung MM, Sohn EH, Stone EM. "Three dimensional distribution of the vitelliform lesion, photoreceptors, and retinal pigment epithelium in the macula of patients with Best vitelliform macular dystrophy." *Arch Ophthalmol*. 2012 Mar;130(3):357-64.

Kay CN, Pavan PR, Small LB, Zhang T, Zamba GKD, Cohen SM. "Familial Trends in a Population with Macular Holes." *Retina*. 2012 Apr;32(4):754-9.

Kay CN, Tarantola RM, Gehrs KM, Folk JC, Mahajan VB, Boldt HC, Syed N, Russell SR. "Uveitis Following Intravitreal Bevacizumab Injection: A Non-Infectious Cluster." *Ophthalmic Surgery Lasers and Imaging*. 2011 Jul-Aug;42(4):292-6.

Kay CN, Elkins KA, Folk JC. "Resolution of refractory macular edema due to branch retinal vein occlusion after Ozurdex implantation." *Retina Cases and Brief Reports*. 2012 Winter;6(1):72-5. doi: 10.1097/ICB.0b013e3182051feb

Kinnick TR, Mullins RF, Dev S, Leys M, Mackey D, **Kay CN**, Lam BL, Fishman GA, Traboulsi E, Stone EM. "Autosomal Recessive Vitelliform Macular Dystrophy in a Large Cohort of Vitelliform Macular Disease Patients." *Retina*. 2011 Mar;31(3):581-95.

Tarantola RM, Elkins KA, **Kay CN**, Folk JC. "Photoreceptor Recovery Following Laser Photocoagulation and Albendazole in Diffuse Unilateral Subacute Neuroretinitis." *Arch Ophthalmol*. 2011 May;129(5):669-71.

Kay CN, Saunders T, Pavan PR. "Ocular Injuries Sustained in Paintball Trauma." *Graefe's Archive for Clinical and Experimental Ophthalmology* 2010 Mar;248(3):331-2.

Potcoava M, **Kay CN**, Kim MK, Richards DW. "In vitro imaging of ophthalmic tissue by digital interference holography." *Journal of Modern Optics* 2009.

Kay CN, Pavan PR, Burrows A, Martino AZ. "Neurosensory Retinal Detachment of the Macula in Retinal Phototoxicity Documented by Optical Coherence Tomography." *Retinal Cases and Brief Reports*. 2010 Spring;4(2):143-5. doi: 10.1097/ICB.0b013e3181997ce7.

Kay CN, Gendy MG, Lujan BJ, Punjabi OS, Gregori G, Flynn HW. "Composite Spectral Domain Optical Coherence Tomography Images of Diabetic Tractional Retinal Detachment." *Ophthalmic Surgery Lasers and Imaging* 2008; 39:S99-S103.

(Kay) Nichols C, Pincus DW, Bhatti MT. "Optociliary Shunt Vessels." *Neurology* 64: 1443. April 2005.

[Submitted & In Preparation]

Margaret R. Strampe, Alison L. Huckenpahler, Mr. Brian P. Higgins , Kimberly E. Stepien , Dr. Christine N. Kay, Joseph Carroll. Repeatability of ellipsoid zone measurements in retinitis pigmentosa. Submitted to TVST.

December 6, 2023

Min SH, Boye SL, Ryals RC, Ruan Q, Sun J, Dyka F, Hauswirth WW, Boye SE, **Kay CN**. Long-term restoration of visual function in the CNGB3/NRL double knockout mouse, a cone-dominant model of CNGB3-achromatopsia. In preparation.

PUBLICATIONS (invited authorship/non peer-reviewed)

Kay CN. Subretinal Gene Therapy Delivery. (Book Chapter, *Operative Techniques in Vitreoretinal Surgery*.) 2020.

Kay CN, Boye S and Boye SE. Clinical In Vivo Gene Therapy (Ocular Disorders.) *Molecular Therapy*. 2020

Kay CN. Retinal Gene Therapies in Clinical Trials: A proliferation of clinical trials means hope for patients. Retinal Physician, March 2019.

Kay CN. "Logistics of Genetic Testing: An Overview for Retina Specialists." Retinal Physician. November 2017.

Kay CN. "Gene Therapy: The new frontier for inherited retinal disease." Retina Specialist. March 2017.

Hu JK, Griffeth W, **Kay CN**. "Interview with Dr. Robert MacLaren on clinical implications of his landmark study on retinal gene therapy in patients with choroideremia." ASRS publication 2014, invited editorial.

Kay CN, Joshi S, Gallagher P. "Ocular infection and inflammation: UVEITIS." Focus-ED CME publication. Editors: Slonim CB, Raizman MA, Eichenbaum DA. Vol 1, Issue 2, Winter 2009.

Kay CN, Sohn E, Abramoff MD. "Biomarkers in Retinal Disease." *Retinal Physician*.

BOOK CHAPTERS

Co-author on chapter on Image Analysis with Dr. Michael Abramoff: *Retina*, 5th ed., Editor Stephan Ryan.

PRESENTATIONS AT NATIONAL MEETINGS

[Oral Presentations]

Kay CN et al. ALK-001 (C20-D3-Vitamin A) Slows the Growth of Atrophic Lesions in ABCA4-Related Stargardt Disease: Results of a Randomized, Placebo-Controlled Clinical Trial, the TEASE Study. AAO Subspecialty Day 2023

Kay CN et al. MCO-010 optogenetic vision restoration in retinitis pigmentosa patients with profound vision loss: A randomized, sham-controlled, multi-center, double-masked clinical trial (RESTORE). Retina Society 2023

Kay CN et al. A Phase 1/2 Clinical Trial Evaluating 4D-150, a Dual-transgene Intravitreal Gene Therapy in Patients with Wet Age-Related Macular Degeneration: Interim 9 Month Results. ASRS 2023

Kay CN et al. "Safety and Efficacy of ATSN-101 in Patients with Leber Congenital Amaurosis Caused by Biallelic Mutations in GUCY2D (LCA1). Macula Society 2023

December 6, 2023

Kay CN et al. "Safety and Efficacy of ATSN-101 in Patients with Leber Congenital Amaurosis Caused by Biallelic Mutations in GUCY2D (LCA1). Retina Subspecialty Day, AAO 2022

Kay CN et al. ALK-001 (C20-D3-Vitamin A) Slows the Growth of Atrophic Lesions in ABCA4-Related Stargardt Disease: Results of a Randomized, Placebo-Controlled Clinical Trial, the TEASE Study, AAO 2022

Kay CN et al. Qualitative experience of patients and caregivers regarding visual functions and impacts on vision depending activities of daily living and health related quality of life in RPE65-related RP and LCA. ARVO 2021 (virtual due to COVID).

Kay CN et al. "Patient and caregiver experiences of functional vision impairment and health-related quality of life limitations associated with hereditary retinitis pigmentosa." Paper presentation (virtual due to COVID), ARVO 2020

Kay CN. "Suprachoroidal delivery for ocular gene therapy: nonclinical experiments evaluating non-viral DNA nanoparticles." AAO 2019.

Kay CN. "Complement C5 Inhibition as a Potential Treatment for Autosomal Recessive Stargardt Disease (STGD1): Design of a Clinical Trial Assessing a Novel Treatment and Primary Outcome Measure" (Ophthotech trial). Macula Society, Feb 2019.

Kay CN. "Phase 2 Tolerability and Effects of ALK-001 in Stargardt Disease ("TEASE" Trial): An Update." Macula Society, Feb 2018.

Kay CN. "Phase 2 Tolerability and Effects of ALK-001 in Stargardt Disease ("TEASE" Trial): An Update." Retina Society, Boston 2017.

Kay CN. "Phase 2 Tolerability and Effects of ALK-001 in Stargardt Disease ("TEASE" Trial): An Update." ASRS Boston 2017.

Kay CN, Hu J. Angiographic reperfusion of choroidal occlusion and associated recovery in visual acuity and field after rapid anticoagulation. IVFA conference at ASRS, San Diego CA 2014.

Kay CN and Bhalla S. Long-term efficacy and safety of treatment of retinitis pigmentosa with valproic acid. ASRS 2013.

Kay CN and Bhalla S. Long-term efficacy and safety of treatment of retinitis pigmentosa with valproic acid. ARVO 2013.

Kay CN, Hollsten J, McClintock, Peden M, Samy H. "A case of fulminant bilateral chorioretinitis and papillitis." American Society of Retina Specialists: Las Vegas, Nevada; 2012.

Kay CN, Joshi D, Gray M. Uveal effusion syndrome with associated anterior ischemic optic neuropathy with dramatic improvement after scleral windows procedure." American Society of Retina Specialists: Las Vegas, Nevada; 2012.

Russell SR, Mahajan VB, Boldt HC, Folk JC, Sohn EH, **Kay CN**, Tarantola RM. "Constellation 2.0: Eliminating Infusion Bubbles and Uncontrolled Reflux." Retina Society Meeting: Rome, Italy; 2011

Kay CN, Mullins RF, Kinnick T, Stone EM. "Morphology of the Vitelliform Lesion in Best Disease."

December 6, 2023

American Society of Retina Specialists: Vancouver, Canada; August 2010.

Kay CN, Tarantola RM, Folk JC. Fluorescein case conference: "DUSN." American Society of Retina Specialists: Vancouver, Canada; August 2010.

Folk JC, Stone EM, **Kay CN**, et al. "Molecular Genetics of AMD and its response to treatment." Paper presentation at 28th annual meeting of American Society of Retina Specialists, Vancouver, Canada; August 2010.

Potcoava M, **Kay CN**, Kim MK, Richards DW. "Digital Interference Holography in Ophthalmology." ARVO 2008.

Kay CN and Pavan PR. "Ocular injuries sustained in paintball trauma." Free Paper Session. Fourth International Ophthalmologic School organized by Croatian Society for Cataract and Refractive Surgery. Croatia; May 2008.

Kay CN, Potcoava M, Kim MK, Richards DW. "Digital Holography Imaging of Human Macula." Paper Presentation. Florida Society of Ophthalmology Resident Symposium. Palm Beach, FL; June 2008.

Kay CN, Cohen SM, Pavan PR, Small LB. "A family history study of macular holes." Gass Society Meeting. Paper presentation. Honolulu, Hawaii; October 2008.

Kay CN, Pavan PR, Kelty PJ. "Ocular injuries sustained in paintball trauma." Paper presentation. American Society of Retina Specialists: Maui, Hawaii; October 2008.

Kay CN, Pavan PR. "Case of Lupus causing peripheral neovascularization and tractional retinal detachments." Grand Rounds presentation, Women in Retina Symposium, American Society of Retina Specialists: Maui, Hawaii; October 2008.

Kay CN, Potcoava M, Kim MK, Richards DW. "Imaging of Human Optic Nerve with Digital Interference Holography." Paper Presentation. Asia ARVO: Hyderabad, India; January 2009.

Potcoava MC, Kim MK, **Kay CN**. "Wavelength scanning digital interference holography for high-resolution ophthalmic imaging." SPIE 2009 BiOS Biomedical Optics Symposium 2009. Ophthalmic Technologies XIX, section 3-Ophthalmic Imaging Technology II . San Jose, CA. January 2009.

[Courses at National Meetings]

Kay CN (course organizing faculty) with co-faculty: Jacque L Duncan MD, Isabelle Audo , Ninel Z Gregori MD, Byron L Lam MD, Karmen M Trzupek MS, Janet Davis MD, Kimberly E Stepien MD, Mark E Pennesi MD PhD, Michel Michaelides, MD, Elliott H Sohn MD. AAO 2019. "Retinal Frontiers: Updates in Gene Therapy."

Kay CN (course organizing faculty) with co-faculty: Ninel Gregori, Benjamin Bakall, Janet Davis, Karmen Trzupek, Kimberly Stepien. Instructional course at ASRS 2019. "Retinal Gene Therapy: Genetic Testing, Viral Vectors, Surgical Delivery, and Clinical Trials."

Kay CN (course organizing faculty) with co-faculty: Jacque L Duncan MD, Isabelle Audo , Ninel Z Gregori MD, Byron L Lam MD, Karmen M Trzupek MS, David M Gamm MD, Kimberly E Stepien MD, Mark E

December 6, 2023

Pennesi MD PhD, Michel Michaelides, MD, Elliott H Sohn MD. AAO 2018. "Retinal Frontiers: Updates in Gene Therapy and Stem Cell Therapy."

Kay CN (course organizing faculty) with co-faculty: Ninel Gregori, Benjamin Bakall, Elliott Sohn, Karmen Trzupek, Instructional course at ASRS 2018. "Retinal Gene Therapy: Clinical and Surgical Overview."

Kay CN (course organizing faculty) with co-faculty: Jacque L Duncan MD, Isabelle Audo, Ninel Z Gregori MD, Byron L Lam MD, Karmen M Trzupek MS, David M Gamm MD, Kimberly E Stepien MD, Mark E Pennesi MD PhD, Michel Michaelides, MD, Elliott H Sohn MD. AAO 2017. "Retinal Frontiers: Updates in Gene Therapy and Stem Cell Therapy."

Kay CN (course organizing faculty) with co-faculty: Ninel Gregori, Benjamin Bakall, Elliott Sohn, Janet Davis, Instructional course at ASRS 2017. "Retinal Gene Therapy: Clinical and Surgical Overview."

Huang S, **Kay CN**, Maguire A, Humayun M, Kashani A, Duker J, Elliott D. "Future Therapies" instructional course, ASRS 2017.

Kay CN (course organizing faculty) with co-faculty: Jacque Duncan, Kimberly Stepien, Benjamin Bakall, Ninel Gregori, Janet Davis, Karmen Trzupek. Instructional course at ASRS 2016. "A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy."

Kay CN (course organizing faculty) with co-faculty: Jacque Duncan J, Byron Lam, Sandeep Grover, Kimberly Stepien, Isabelle Audo, Ninel Gregory, Karmen Trzupek. Instructional course at AAO 2016. "A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy."

Kay CN (course organizing faculty) with co-faculty: Duncan J, Lam B, Pennesi M, Michaelides M, Sohn E, Audo I. Instructional course at AAO 2015. "A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy."

Kay CN (course organizing faculty) with co-faculty: Duncan J, Lam B, Pennesi M, Michaelides M, Sohn E, Audo I. Instructional course at AAO 2014. "A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy."

Kay CN and Bakall B. Instructional course: A genetic approach to inherited retinal dystrophies: updates on clinical classification of common retinal dystrophies, genotyping, and gene therapy. ASRS 2014 San Diego.

Kay CN and Sohn E. Instructional course: A genetic approach to inherited retinal dystrophies: updates on clinical classification of common retinal dystrophies, genotyping, and gene therapy. ASRS 2013, Toronto.

[Poster Presentations]

Decarlo D, Nowakowski R, **Kay CN**. "RPE65 Associated Leber Congenital Amaurosis – Phenotype and Treatment." American Academy of Optometry. 2019.

Banhazi J, Williamson N, Bradley H, Exall E, Naujoks C, Spera C, Green J, Fischer MD, Audo I, **Kay C**, Viriato D. "What do we know about patients' and caregivers' experiences when living with the hereditary retinal condition retinitis pigmentosa?" ISPOR 2019.

Patterson E, Langlo C, Lam B, **Kay C**, Pennesi M, Weleber D, Fishman G, Hauswirth W, Carroll J. "Assessing color vision in congenital Achromatopsia." ARVO 2016.

Scholl HP, Shah SM, **Kay CN**, Tsang SH, Steppien KE, Bernstein PS, Lam BL, Gorin MB, Washington I, Saad L. TEASE: a phase 2 clinical trial assessing the tolerability and effects of oral once-a-day ALK-001 on Stargardt disease. ARVO 2016.

Langlo CS, Erker L, Parker M, Patterson E, Lam B, **Kay C**, Pennesi M, Weleber R, Fishman G, Hauswirth W, Carroll J and ACHM-001 study group. Assessing Foveal Cone Structure in Achromatopsia with AOSLO and SDOCT. ARVO 2016.

Sarfare, S, Min SK, Boye SL, Boye SE, Hauswirth WW, **Kay CN**. Gene therapy for a mouse model of achromatopsia. ARVO 2015.

Sarfare S, Min SK, Ruan Q, Boye SL, Boye SE, Hauswirth WW, **Kay CN**. The expression of CNGB3 provides a long-term rescue in the cone-only CNGB3 x NRL double knock-out (DKO) mouse. ISER 2014.

Choi C, Zhang L, Abramoff MD, Sonka M, Shifera A, **Kay CN**. Evaluating Efficacy of Aflibercept in Refractory Exudative Age-Related Macular Degeneration with OCT segmentation volumetric analysis. San Diego, CA: ASRS 2014.

Choi C, Zhang L, Abramoff MD, Sonka M, Shifera A, **Kay CN**. Efficacy of Aflibercept in Refractory Wet Age-Related Macular Degeneration. ARVO 2014.

Min SK, Ruan Q, Boye SL, Boye SE, Hauswirth WW, **Kay CN**. The expression of CNGB3 provides a long-term rescue in the cone-only CNGB3 x NRL double knock-out (DKO) mouse. ARVO 2014.

Radhakrishnan K, Parsons-Wingerter P, Chalam KV, Mames R, **Kay C**, Grant MB. VESGEN Analysis of Fractal-Based Branching in Arterial and Venous Trees for Investigating Diabetic Retinopathy with Spectralis® Angiographic Imaging. ARVO 2014.

Hauswirth W, Min SH, Boye SL, Kasuga DT, Ruan Q, Sun J, Phan MT, Boye SE, **Kay CN**. Natural History of the CNGB3/NRL Double Knock-Out Mouse. ARVO 2013.

In vivo quantification of photoreceptor transduction efficiency using novel modified AAV capsids. Ryals R, **Kay CN**, Boye SL, Min SH, Ayala S, Hauswirth WW, Boye SE. ARVO 2013.

Kay CN, Boye S, Ryals R, Sun J, Neeley A, Hauswirth B, Boye S. "Enhanced Retinal Transduction Via The Vitreous With AAV8 Capsid Mutants." ASRS 2012.

Kay CN, Boye S, Ryals R, Sun J, Neeley A, Hauswirth B, Boye S. "Enhanced Retinal Transduction Via The Vitreous With AAV8 Capsid Mutants." ARVO 2012.

Kay CN, Tarantola RM, Mullins RF. "Histopathologic Correlation of Retinal Layers on Spectral Domain Optical Coherence Tomography in Post-mortem Human Eyes." ASRS: Boston, MA; 2011.

Kay CN, Stone EM, Abramoff MD. "Increased thickness of photoreceptor outer segments and retinal pigment epithelium in Best vitelliform macular dystrophy." ARVO 2011.

Kay CN, Elkins KA, Mahajan VB, Gehrs KM. "Reversal of Visual Field Defects on Goldmann Perimetry after Fluocinolone Acetonide Implantation for Chronic Uveitis." American Society of Retina Specialists: Vancouver, Canada; August 2010.

Kay CN, Tarantola RM, Gehrs KM, Russell SR. "Non-infectious uveitis following intravitreal bevacizumab." Poster presentation. ARVO 2010.

Kay CN, Cohen SM, Pavan PR, Small L. "Prevalence of familial trends in a population with macular holes." Poster presentation. Retina Congress 2009 NY.

Kay CN, Potcoava M, Kim MK, Richards DW, Pavan PR. "Digital Holography Imaging of Human Macula." Poster Presentation. American Society of Retina Specialists: Maui, Hawaii; October 2008.

Kay CN, Zaccaria AL, Burrows A, Pavan PR. "The OCT findings in retinal phototoxicity." Poster presentation. American Society of Retina Specialists: Palm Springs, California 2007.

Nichols C, Seeburg D, Vaishnav H, WC Lara, Feistmann J, Kaushal S, Ratnakaram R. "Does the use of silicone oil in retina surgery induce glaucoma?" Poster Presentation. ARVO 2005.

Nichols CM, Miller DW, Johnson JM, Young AB. "Decreased Alpha-Synuclein mRNA Expression in Dementia with Lewy Bodies." Massachusetts Alzheimer's Disease Research Center Poster Session, January 2002.

INVITED LECTURES:

Moderator: INNOVATE RETINA AAO 2023

Age related macular degeneration updates (Macular Degeneration Association, Ocala Florida 2022)

LCA updates. VISIONS 2020, Foundation Fighting Blindness.

FDA HEARING FOR VORETIGENE APPROVAL: Invited by Spark Therapeutics to speak on behalf of candidacy of voretigene for FDA approval, Oct 2017. Washington, D.C. Federal Drug Administration.

FDA ICER hearing for voretigene approval, Invited by Spark Therapeutics as speaker for candidacy of Voretigene approval. Kansas City, Jan 2018.

Updates in Achromatopsia and Stargardt Disease". Foundation Fighting Blindness, Tampa Chapter, 2018

Retinal Genetics: Overview and Updates." University of South Florida. May 2017.

Rare Diseases: Overview and "The Doctor is in" panel, Foundation Fighting Blindness; Baltimore, MD. VISIONS 2016.

"The Doctor is in" panel, Foundation Fighting Blindness; Baltimore, MD. VISIONS 2015.

"Overview: Stargardt disease, Cone-rod dystrophy, Best vitelliform macular dystrophy" – Foundation Fighting Blindness Annual Meeting, VISIONS 2015, Baltimore, MD. VISIONS 2015.

"Gene therapy for CNGB3-associated Achromatopsia: Updates on natural history trial and overview of

December 6, 2023

upcoming Phase 1/2 treatment trial" – post ARVO Gene Therapy Symposium, Denver 2015.

"Gene therapy for CNGB3-associated Achromatopsia: Updates on natural history trial and overview of upcoming Phase 1/2 treatment trial" – University of Wisconsin, June 2015.

Foundation Fighting blindness chapter meeting: Gainesville, FL: "Genetic testing for retinal dystrophies." September 2014.

"The Doctor is in" panel, Foundation Fighting Blindness; Denver, Colorado. VISIONS 2014.

"Eylea and the anti-VEGF era" – Department of Pharmacology, University of Florida, December 6, 2014.

Clinical Overview of Achromatopsia: Achromatopsia National Convention; University of Florida, June 2014.

"Achromatopsia: clinical overview, gene therapy overview/proof of concept in mice and large animals, and clinical trial update. Institut de Vision; Paris, France. October 2013.

"A genetic approach to inherited retinal dystrophies: updates on clinical classification of common retinal dystrophies, genotyping, and gene therapy." Croatian Cataract and Refractive Society. Zagreb, Croatia. October 2013.

"Overview: Rare retinal dystrophies" – Foundation Fighting Blindness Annual Meeting, VISIONS 2013, Baltimore, MD, June 2012.

"Genetics of Inherited Retinal Disease." Invited speaker by Dr. Scott Friedman for Retinal Consultants of Florida sponsored dinner meeting; Lakeland, Florida; April 2013.

Moderator for Vitreoretinal surgical fellow case conference at Vit-Buckle Society; April 2013.

"Diabetic retinopathy for the internist" – January 2012, University of Florida; internal medicine grand rounds
"Translational approach to inherited retinal disease." Florida Society of Ophthalmology, Orlando, FL June 2012

"Overview: Stargardt disease, Cone-rod dystrophy, Best vitelliform macular dystrophy" – Foundation Fighting Blindness Annual Meeting, VISIONS 2012, Minneapolis, Minnesota, June 2012

"Clinical characterization of inherited retinal disease." Lions Club, Gainesville, FL; August 2012

"Translational approach to inherited retinal disease." University of Florida, Pre-Meeting to Inherited Retinal disease Symposium: "Gene Therapy 101"; Gainesville, FL October 2012

"The Doctor is in" panel, Foundation Fighting Blindness, Invited by Jacksonville chapter of FFB, Oct. 2012

"Diabetic retinopathy clinical update" – UF Diabetes Center of Excellence "A celebration of research and patient care", November 16, 2012.

"A genetic approach to inherited retinal disease," Retina Pearls at University of Florida, a CME event,

December 6, 2023

December 14, 2012

“Diabetic retinopathy” – January 2013, University of Florida; endocrinology grand rounds

PRESENTATIONS AT LOCAL MEETINGS

Kay CN: Age related macular degeneration overview – patient seminar (Villages, October 2023)

Kay CN: A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy.” *April 2016. Gainesville Optometric Society Meeting.*

Kay CN: A genetic approach to inherited retinal dystrophies: clinical classification of common retinal dystrophies, genotyping, and gene therapy.” *March 2015. Ocala Optometric Society Meeting.*

Kay CN, Shifera AS. “Familial exudative vitreoretinopathy.” Sarasota Retina Conference; Sarasota, FL March 2013.

Invited panel discussant/ participant: “Clinical management of diabetic retinopathy”; panel members Christine Kay, Susan Bressler, Neil Bressler, Rick Spaide. Sarasota Retina Conference; Sarasota, FL March 2013.

Ryals R, **Kay C**, Boye S, Min SK, Sun J, Dyka F, Ayala A, Hauswirth W, Boye S. “Targeting photoreceptors via intravitreal delivery of novel, capsid-mutated AAV vectors.” Poster. University of Florida College of Medicine Celebration of Research Day; March 11, 2013.

“Achromatopsia.” Poster, Rare Disease Day, University of Florida; Gainesville, Florida. February 2013

MEETINGS ORGANIZED:

Organized Retina Pearls of Practice and served as moderator at this meeting at University of Florida, December 9, 2012. Guest speakers: Steve Russell (University of Iowa), Timothy Murray (Bascom Palmer)

Organized Inherited Retinal disease symposium held at the University of Florida in October 2012. (Guest speakers: Bill Hauswirth, Gerry Fishman, Sam Jacobson, Jane Sowden, Jacque Duncan, Mina Chung.)

TEACHING EXPERIENCE

2014-present	Affiliate assistant professor at University of South Florida – teach lectures to ophthalmology residents, emphasis on inherited retinal disease
3/2016-present	Clinical and surgical preceptor to a pre-med student.
11/12 – 6/14	IDP dissertation committee member for graduate student Renee Ryals,

	PhD candidate at University of Florida.
8/12-8/14	Rotating medical students mentored in August 2012 in both clinic and lab: Peter Tang (MUSC medical student) and Josh Cohen, Univ of Florida
8/11-8/14	Retina fellowship co-director: (Retina fellows taught: Deval Joshi, M.D.) (2012-2013; Shaminder Bhullar 2012-2012, Brent Rocke 2013-2014)
8/11-10/11	Mentor to Sheena Bhullar for Medical Student Research Program for research for medical students.
8/11- 8/14	MEL4012: serve as faculty mentor to students (Osmanny Gomez, Aureen Arellano, Hannah Hong, Brian Rossmiller) shadowing me for clinical/surgical experience MEL7933: faculty instructor for ophthalmology elective at University of Florida BCC1760: faculty instructor for surgery clerkship
8/11- 6/14	Faculty Mentor to Renee Ryals for Clinical and Translational Science Institute Program (2012-2014)
8/11-8/14	Assistant professor at University of Florida – teach residents and fellows in clinic and operating room, give lectures on retina and fluorescein angiography
7/09-6/10	Weekly fluorescein conferences – present to residents/faculty
7/09-6/11	Retinal Anatomy - Medical Student Lecture Series
7/09-6/11	Clinical instruction of residents (clinic, surgery, on-call)

PROFESSIONAL LEADERSHIP ACTIVITIES

2010-present	Member of WINR, Women in Retina, ASRS
2012-2014	Steering committee member and Regional direct of RAFA (Retinal advocacy and federal affairs, committee of American Society of Retinal Specialists)
2012-2014	Women in Ophthalmology at University of Florida founder
2011-2014	University of Florida Vitreoretinal Fellowship Director Director Electrophysiology Service Director Clinical Research, Vitreoretinal Division
2008-2009	Chief Resident, University of South Florida Ophthalmology
2008	American Retina Foundation delegate for AAO Advocacy Ambassador Program Mid-Year Forum; Washington, D.C.
2008-present	Reviewer for Ophthalmic Surgery, Lasers and Imaging
2012-present	Reviewer for Canadian Journal of Ophthalmology
2002-2003	Vice President, University of Florida AMA Chapter
2002-2003	Atkins Economic Society Chair

PROFESSIONAL SOCIETIES

2017-present	Macula Society
2017-present	Retina Society
2009-present	American Society of Retina Specialists
2009-present	Iowa Eye Association
2006-present	American Academy of Ophthalmology

December 6, 2023

2006-present
2006-present
2001-present
2001-2005
2001-2005

ARVO
Florida Society of Ophthalmology
American Medical Association
American Medical Student Association
Florida Medical Association