

**UNIVERSITY OF OKLAHOMA
COLLEGE OF MEDICINE**

CURRICULUM VITAE

Michael Hale Elliott, PhD

Professor, Department of Ophthalmology
Division of Ophthalmology - Vision Research
Stanton L. Young Endowed Chair in Ophthalmology
Presbyterian Health Foundation Presidential Professor
Dean A. McGee Eye Institute DMEI PA 405
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Oklahoma City, OK 73104
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Appointment Type: Tenured
Pathway: Basic Science Faculty

EDUCATION AND TRAINING

Postgraduate Education and Training

2000 - 2004 Postdoctoral Fellowship, Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
Mentor: Robert E Anderson, MD, PhD

Education

1994 - 2000 Doctor of Philosophy, Physiology and Cell Biology
Department of Molecular Biosciences, University of Kansas, Lawrence, KS

1987 - 1991 Bachelor of Arts, Human Biology
Division of Biological Sciences, University of Kansas, Lawrence, KS

PROFESSIONAL EXPERIENCE

Academic

2022 - Present Professor, Department of Biochemistry & Physiology, Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, United States

2022 - Present Professor, Department of Ophthalmology, Medicine, University of Oklahoma Health Sciences Center, Oklahoma City, United States

2016 - 2022 Associate Professor, Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2016 - 2022 Associate Professor, Department of Physiology, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2010 - 2016 Adjunct Assistant Professor, Department of Physiology, University of Oklahoma Health Sciences Center, Oklahoma City, OK

2010 - 2016	Assistant Professor, Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
2008 - 2010	Assistant Professor of Research, Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK
2004 - 2008	Research Instructor, Department of Ophthalmology, University of Oklahoma Health Sciences Center, Oklahoma City, OK

HONORS AND AWARDS

National/International

Gold Fellow, Association for Research in Vision and Ophthalmology (ARVO), May 2022 - Present

Silver Fellow, Association for Research in Vision and Ophthalmology (ARVO), May 2018 - Present

Alcon Research Institute (ARI) Young Investigator Award, Alcon, 2013

Sybil B. Harrington Special Scholar Award, Research to Prevent Blindness (RPB), Inc., 2011

Local/Regional

Travel Award, Oklahoma Chapter of the Society for Neuroscience, 2002

Institutional

Stanton L. Young Endowed Chair in Ophthalmology, Stanton L. Young Endowed Chair in Ophthalmology, Department of Ophthalmology, July 2025 - Present

Research Incentive Program Awardee, Office of the Vice President for Research, July 2024 - Present

Presbyterian Health Foundation Presidential Professor, Presbyterian Health Foundation Presidential Professor, OUHSC, 2021 - Present

Gregory L. Skuta, MD Endowed Chair in Ophthalmology, Gregory L. Skuta, MD Endowed Chair in Ophthalmology, Department of Ophthalmology, OUHSC, January 2023 - June 2025

Young Investigator Award, International Symposium on Retinal Degenerations, 2014

Travel Fellowship, International Society for Eye Research (ISER), 2006

Young Investigators Award, International Symposium on Retinal Degenerations, 2006

SCHOLARSHIP

Contracts, Grants, and Other Research

* indicates mentee

Current

Grants

Callegan, M. C. (Co-Principal Investigator), **Elliott, M. H.** (Co-Principal Investigator), "Core Grant

for Vision Research," Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal
Grant/Contract Number: P30 EY021725
September 2026 - August 31, 2030

Lang, M. (Principal Investigator), **Elliott, M. H.** (Supporting Investigator), "Oklahoma IDeA Network of Biomedical Research Excellence," Research Grant, Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal
Grant/Contract Number: P20GM103447
Additional Information: The OK-INBRE program supports the development and continuity of biomedical research throughout the state of Oklahoma. Dr. Elliott serves as a faculty mentor.
September 1, 2025 - August 31, 2030

Freeman, W. (Principal Investigator), Chucair-Elliott, A. J. (Co-Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Retinal Pigmented Epithelium Epigenome Dysregulation With Aging and Modulation by Diet," Sponsored by National Institutes of Health (NIH), Federal
Grant/Contract Number: R01EY034946
March 1, 2024 - February 28, 2029

Elliott, M. H. (Principal Investigator), Stamer, W. D. (Co-Principal Investigator), "Caveolae-based mechanosensors for conventional outflow regulation," Research Grant, Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal
Grant/Contract Number: R01EY028608
Additional Information: The project is designed to examine the glaucoma gene CAV1 as mechanosensors in intraocular pressure control.
September 1, 2018 - February 29, 2028

Elliott, M. H. (Principal Investigator), "Role of Caveolin-1 in the Maintenance of Blood-Retinal Barrier Integrity," Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI)/National Institute of General Medical Sciences (NIGMS), Federal
Grant/Contract Number: R01EY019494
Additional Information: NCE
This project is designed to study mechanisms that regulate blood-retinal barrier integrity to define novel potential therapeutic strategies to ameliorate pathological blood-retinal barrier permeability.
December 1, 2009 - August 31, 2027

Callegan, M. C. (Principal Investigator), **Elliott, M. H.** (Module Director), "Core Grant for Vision Research," Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal
Grant/Contract Number: P30 EY021725
Additional Information: NCE
This project consists of two core modules (Live Animal Imaging and Functional Analysis and Cellular Imaging and Morphometric Analysis), which will create state-of-the-art facilities for clinically relevant analysis of ocular structure and visual function. The core modules will increase productivity of current investigators, facilitate recruitment of new investigators and stimulate the development of collaborative translational research projects.
September 1, 2016 - August 30, 2027

Completed

Grants

Ash, J. D. (Principal Investigator), **Elliott, M. H.** (Supporting Investigator), "Transcriptional control of stress-induced resistance to retinal degeneration," Research Grant, Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal
Grant/Contract Number: R01EY032051
Additional Information: The project is designed to examine transcriptional responses to stress in

Muller glia in the retina.
September 1, 2021 - August 30, 2026

Elliott, M. H. (Principal Investigator), Enyong, E. (PhD student receiving stipend support), "Role of Cavin1/PTRF in ocular function," Research Support Grant, Sponsored by Presbyterian Health Foundation, Foundation

Additional Information: This research support grant provides partial stipend support for an outstanding PhD candidate in the Elliott laboratory, Mr. Eric Enyong.
July 1, 2021 - June 30, 2022

Elliott, M. H. (Principal Investigator), 25% Effort, Stamer, W. D. (Co-Principal Investigator), "Caveolae-based mechanosensors for conventional outflow regulation," Research Grant, Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal Grant/Contract Number: R01EY028608

Current Funding (Total Cost per Year): \$498,565.00
Total Direct Costs: \$1,628,000.00

Additional Information: The project is designed to examine the glaucoma gene CAV1 as mechanosensors in intraocular pressure control.
September 1, 2018 - June 30, 2022

Elliott, M. H. (Principal Investigator), 1% Effort, "Role of Caveolin-1 in the Maintenance of Blood-Retinal Barrier Integrity," Bridge grant, Sponsored by Presbyterian Health Foundation, Foundation

Current Funding (Total Cost per Year): \$75,000.00

Additional Information: This bridge grant supported the resubmission of a competing renewal to NIH that was funded.

October 1, 2020 - September 30, 2021

Carr, D. J. (Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Corneal Lymphatics & Adaptive Immunity," Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal Grant/Contract Number: R01EY021238

Current Funding (Total Cost per Year): \$330,788.00

Additional Information: The goal is to characterize corneal lymphangiogenesis relative to HSV-1 infection with the anticipated outcome of the identification of additional pro-angiogenic factors and pathways as candidate targets for therapeutic intervention.

December 1, 2015 - November 30, 2020

Elliott, M. H. (Principal Investigator), 10% Effort, "Role of Cav-1 on the maintenance of corneal epithelial stem cells - a new therapy," Sponsored by Oklahoma Center for Adult Stem Cell Research (OCASCR), Non-Profit

Current Funding (Total Cost per Year): \$151,200.00

July 1, 2019 - September 30, 2020

Elliott, M. H. (Principal Investigator), 1% Effort, Gurley, J. (This is a postdoctoral fellowship for Dr. Gurley of which I am sponsor.)*, "The Role of TRAF3 in Retinal Function and Inflammation," Postdoctoral Fellowship for Dr. Jami Gurley, Sponsored by Oklahoma Center for the Advancement of Science and Technology (OCAST), State

Grant/Contract Number: HF18-008

Current Funding (Total Cost per Year): \$75,000.00

July 1, 2018 - June 30, 2020

Elliott, M. H. (Principal Investigator), 10% Effort, "Role of Cav1 on Maintenance of Corneal Epithelial Stem Cells- A New Therapy," Sponsored by Oklahoma Center for Adult Stem Cell Research (OCASCR), Local

Grant/Contract Number: ORA# 20181194

Current Funding (Total Cost per Year): \$151,200.00

July 1, 2018 - June 30, 2019

Zhang, X. A. (Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Tetraspanin-enriched Microdomains and Endothelial Barrier Function," Sponsored by National Institutes of Health (NIH)/National Heart, Lung, and Blood Institute (NHLBI), Federal Grant/Contract Number: R01HL132553-01A1

Current Funding (Total Cost per Year): \$374,541.00

Additional Information: These studies will elucidate why and how tetraspanin-enriched microdomains are important for endothelial barrier function, establish a novel paradigm between vascular permeability and membrane organization of cell adhesion molecules, and delineate the signaling that governs the balance of small GTPases in endothelium.

December 15, 2016 - June 30, 2019

Elliott, M. H. (Principal Investigator), 5% Effort, "Caveolae-based mechanosensors for conventional outflow regulation," Sponsored by Presbyterian Health Foundation, Foundation Total Direct Costs: \$75,000.00

Additional Information: This is bridge grant for a NIH R01 application that was funded.

September 1, 2017 - August 31, 2018

Callegan, M. C. (Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Vascular Permeability in Ocular Infections," Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal

Grant/Contract Number: R01 EY024140

Total Direct Costs: \$1,143,153.00

Additional Information: The goal is to determine the collective mechanisms of vascular permeability caused by bacteria during post-traumatic and endogenous endophthalmitis.

January 14, 2014 - December 31, 2017

Elliott, M. H. (Principal Investigator), 5% Effort, "Role of Caveolin-1 in the Maintenance of Blood-Retinal Barrier Integrity," Bridge Grant, Sponsored by Presbyterian Health Foundation, Foundation

Total Direct Costs: \$75,000.00

July 1, 2017 - September 30, 2017

Elliott, M. H. (Principal Investigator), 5% Effort, "Role of Caveolin-1 in the Maintenance of Blood-Retinal Barrier integrity," Bridge Grant, Sponsored by Presbyterian Health Foundation, Foundation

Total Direct Costs: \$75,000.00

July 1, 2015 - September 30, 2015

Elliott, M. H. (Principal Investigator), 10% Effort, "Caveolins as novel mechanosensors in aqueous outflow," BrightFocus National Glaucoma Research Award, Sponsored by BrightFocus Foundation, Non-Profit

Grant/Contract Number: G2013092

Total Direct Costs: \$100,000.00

Additional Information: The goals of this project are to test the hypothesis that caveolins act as mechanical transducers to regulate the outflow of aqueous fluid.

July 1, 2013 - June 30, 2015

Elliott, M. H. (Principal Investigator), 5% Effort, "Quantitative Proteomic Mapping of Diabetic Vasculature," Sponsored by American Diabetes Association, Non-Profit

Grant/Contract Number: 1-13-IN-17

Total Direct Costs: \$90,000.00

Additional Information: The goal of this project is to test the hypothesis that diabetic tissue microenvironments modulate protein expression in vascular endothelium, in vivo, and that these changes can be assessed by comparative mass spectrometry (MS) to generate tissue-specific

proteome maps from diabetic and control vasculature.
January 1, 2013 - December 31, 2014

Cohen, A. (Principal Investigator), **Elliott, M. H.** (Co-Principal Investigator), 10% Effort, "Role of Caveolin-1 in Limbal Stem Cell Biology," Sponsored by Oklahoma Center for Adult Stem Cell Research, Non-Profit
Total Direct Costs: \$220,000.00
January 1, 2013 - December 31, 2014

Le, Y. Z. (Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Study of RPE barrier," Intramural Research, Sponsored by National Institutes of Health (NIH)/National Eye Institute (NEI), Federal Grant/Contract Number: R01EY020900
Total Direct Costs: \$958,000.00
Additional Information: The goals of this application are to study the pathogenic mechanism of leading causes of blindness: diabetic retinopathy, retinopathy of prematurity, and uveitis focusing on the regulatory mechanism and the pathophysiology of blood-retina barriers.
September 1, 2010 - August 31, 2014

Elliott, M. H. (Principal Investigator), 5% Effort, "Manipulation of caveolae as a strategy for intraocular pressure regulation," Alcon Research Institute Young Investigator Award, Sponsored by Alcon Research Institute, Private
Grant/Contract Number: RSRCH031164
Total Direct Costs: \$50,000.00
Additional Information: The goals of this project are to test the hypothesis that caveolae represent endogenous regulators of intraocular pressure and to identify caveolae protein networks by quantitative mass spectrometry.
July 1, 2013 - June 30, 2014

Deak, F. (Principal Investigator), **Elliott, M. H.** (Co-Principal Investigator), 1% Effort, "Altered signal processing in lipid rafts and synaptic dysfunction in brain aging," Collaborative Pilot Project Award, Sponsored by Reynolds Center on Aging (ROCA), Non-Profit
Total Direct Costs: \$50,000.00
Additional Information: The goal of this project is to examine novel molecules, caveolin-1 (Cav-1) and synaptobrevin-2 (SVB2) that control synaptic dysfunction in aging. We hypothesize that these molecules interact functionally and that combined age-related declines in their expression potentiates cognitive decline.
April 1, 2013 - March 31, 2014

Anderson, R. E. (Principal Investigator), **Elliott, M. H.** (Promising Junior Investigator (PJI)), "Mentoring Vision Research in Oklahoma; Subproject: In Vivo Role of Caveolin-1 in Modulating Photoreceptor Function.," Sponsored by National Institutes of Health (NIH)/National Center for Research Resources (NCRR), Federal
Grant/Contract Number: P20 RR017703
Total Direct Costs: \$750,000.00
Additional Information: The long-term goal of the COBRE grant is to develop a new generation of NIH-funded independent principal investigators who will continue to expand cutting-edge cell biology, microbiology, immunology, biochemistry, neuroscience, molecular biology, and genetics research in the vision sciences at participating Oklahoma institutions. The goal of this subproject is to elucidate the mechanism by which the important lipid raft-associated protein Caveolin-1 regulates the maintenance of photoreceptor structure/function.
September 15, 2002 - June 30, 2013

Elliott, M. H. (Principal Investigator), 10% Effort, "Sybil B. Harrington Special Scholar Award for Macular Degeneration," Sponsored by Research to Prevent Blindness (RPB), Inc., Non-Profit
Total Direct Costs: \$55,000.00
Additional Information: The goal of this RPB project is to test the novel mechanisms that modulate

local inflammatory signaling events in the retina.
July 1, 2011 - December 31, 2012

Elliott, M. H. (Principal Investigator), 8% Effort, "Role of caveolin-1 in experimental diabetic retinopathy," Sponsored by Oklahoma Center for the Advancement of Science and Technology (OCAST)

Grant/Contract Number: HR09-028

Total Direct Costs: \$135,000.00

Additional Information: The major goal of this project is to understand how caveolin-1 may be dysfunctional in the diabetic retina and to test a potential therapeutic strategy to ameliorate complications of diabetic retinopathy.

July 1, 2009 - June 30, 2012

Elliott, M. H. (Principal Investigator), Anderson, R. E. (Sponsor), "Caveolin in Mammalian Photoreceptor Outer Segments," Sponsored by National Institutes of Health (NIH)/National Research Service Award (NRSA), Federal

Grant/Contract Number: F32 EY13574

Additional Information: This study involved biochemical experiments designed to address the role of caveolins in mammalian photoreceptors.

September 13, 2001 - September 12, 2004

Pending

Grants

John, S. W. (Principal Investigator), **Elliott, M. H.** (Co-Investigator), "Mechanisms of IOP-driven neurovascular barrier dysfunction," Sponsored by National Institutes of Health (NIH), Federal
Additional Information: This is a subaward for a collaboration with Dr. Simon John at Columbia University. Our subaward will continue our work on retinal vascular ultrastructure in models of ocular hypertension.

April 1, 2027 - March 31, 2032

Chucair-Elliott, A. J. (Co-Principal Investigator), **Elliott, M. H.** (Co-Principal Investigator), "Mechanisms and rescue of age-related vascular pathology," Sponsored by National Institutes of Health (NIH), Federal

Grant/Contract Number: 1R01EY039881-01

Additional Information: This application received an impact score of 29 and a 10th percentile. We are awaiting council review.

December 1, 2026 - November 30, 2031

Publications - Peer-Reviewed/Refereed

* indicates Mentee

+ indicates Co-First Author

indicates Contributing Author/Corresponding Author

Scientific/Scholarly Journals

1. Hoffmann, A. K., Dlugosch, A., Geigenfeind, M. C., Seeman, A., **Elliott, M. H.**, Fuchshofer, R., Dillinger, A. E.# (2026). Caveolin-1 defines astrocyte mechanobiology in the glial lamina of the optic nerve head. *Frontiers in Cellular Neuroscience*, 20, 1909639. DOI: 10.3389/fncel.2026.1909639
2. Enyong, E. N.**, Bankole, O. O.**, Gurley, J. M.*, McClellan, M. E., Liu, L., Ding, S.-Y., Agbaga, M.-P., Chucair-Elliott, A. J., Ash, J. D., **Elliott, M. H.**# (2026). Non-caveolar caveolin-1 in retinal Müller glia promotes innate immune responses. *Journal of Biological Chemistry*, 302(8), 113290. PMID: 42336282. DOI: 10.1016/j.jbc.2026.113290

3. Zhang, C., Lim, H., Ballheim, J. D.*, Simón, M., Fu, R., Tolman, N. G., Horbal, L. J., Juarez, F. A., Wang, Q., Bhandari, A., Montgomery, C., Zhu, L., Crowston, J. G., Robine, N., Fautsch, M. P., **Elliott, M. H.**, John, S. W. (2026). Intraocular pressure induced blood retinal barrier compromise in mouse models and human glaucoma. *Nature Communications*, 17(1). PMID: 41951642. DOI: 10.1038/s41467-026-71379-y
4. Ding, Y.*, Chen, J.*, Liu, S.*, Hays, J. M., Gu, X.*, Wren, J. D., Georgescu, C., Reuter, D. N., Liu, B., He, F., Wang, X., Wei, Q., Wang, J., Subramaniam, B., Wu, Z., Kodali, K., Reagan, A. M.*, Freeman, W. M., Miranti, C. K., Csiszar, A., Ungvari, Z., Mehla, K., Walters, M. S., **Elliott, M. H.**, Peng, J., Kanie, T., Papin, J. F., Hays, F. A., Zhang, X. A.# (2025). Tetraspanin-enriched Membrane Domains Regulate Vascular Leakage by Altering Membrane Cholesterol Accessibility to Balance Antagonistic GTPases. *Nature Cardiovascular Research*, 4(8), 1011-1033. PMID: 40731107. DOI: 10.1038/s44161-025-00686-2
5. Kelly, R. A., Kuhn, M., Reina-Torres, E., Balasubramanian, R., Perkumas, K. M., Li, G., Takahashi, T., John, S. W., **Elliott, M. H.***, Overby, D. R.#, Stamer, W. D.# (2025). Endothelial-specific postnatal deletion of Nos3 preserves intraocular pressure homeostasis via macrophage recruitment and NOS2 upregulation. *Journal of Clinical Investigation*, 135(7), e183440. PMID: 39932792. DOI: 10.1172/JCI183440
6. Bankole, O. O.*, **Elliott, M. H.**# (2025). Is Caveolin-1 required for retinal neuroprotection? *Advances in Experimental Medicine and Biology*, 1468, 287-291. PMID: 39930210. DOI: 10.1007/978-3-031-76550-6_47
7. Acott, T. S., Fautsch, M. P., Mao, W., Ethier, C. R., Huang, A. S., Kelley, M. J., Aga, M., Bhattacharya, S. K., Borrás, T., Bovenkamp, D., Chowdhury, U. R., Clark, A. F., Dibas, M. L., Du, Y., **Elliott, M. H.**, Faralli, J. A., Gong, H., Herberg, S., Johnstone, M. A., Kaufman, P. L., Keller, K. E., Kelly, R. A., Krizaj, D., Kuehn, M. H., Li, H. L., Lieberman, R. L., Lin, S. C., Liu, Y., McDonnell, F. S., McDowell, C. M., McLellan, G. J., Mzyk, P., Nair, K. S., Overby, D. R., Peters, D. M., Raghunathan, V., Rao, P. V., Roddy, G. W., Sharif, N. A., Sim, M. S., Sun, Y., Thomson, B. R., Toris, C. B., Willoughby, C. E., Zhang, H. F., Freddo, T. F., Fuchshofer, R., Hill, K. R., Karimi, A., Kizhatil, K., Kopczynski, C. C., Liton, P., Patel, G. C., Peng, M., Pattabiraman, P. P., Prasanna, G., Reina-Torres, E., Samples, E. G., Samples, J. R., Steel, C. L., Strohmaier, C. A., Subramanian, P., Sugali, C. K., van Batenburg-Sherwood, J., Wong, C., Youngblood, H., Zode, G. S., White, E., Stamer, W. D. (2024). Consensus Recommendations for Studies of Outflow Facility and Intraocular Pressure Regulation Using Ex Vivo Approaches. *Investigative ophthalmology & visual science*, 65(14), 32. PMID: 39693082. DOI: doi: 10.1167/iops.65.14.32
8. Chucair-Elliott, A. J.#, Pham, K., Cleuren, A. C. A., Schafer, C. M., Griffin, C. T., Ocanas, S. R., Freeman, W. M., **Elliott, M. H.**# (2024). Comparative Analysis of In vivo Endothelial Cell Translatomes Across Central Nervous System Vascular Beds. *Experimental Eye Research*, 248, 110101. PMID: 39303842. DOI: doi: 10.1016/j.exer.2024.110101.
9. Chucair-Elliott, A. J.#, Ocanas, S. R., Pham, K., Machalinski, A., Plafker, S., Stout, M. B., **Elliott, M. H.**, Freeman, W. M.# (2024). Age- and sex- divergent translomic responses of the mouse retinal pigmented epithelium. *Neurobiology of Aging*, 140, 41-59. PMID: 38723422. DOI: 10.1016/j.neurobiolaging.2024.04.012
10. Enyong, E. N., Gurley, J.*, Sjoelund, V., **Elliott, M. H.**# (2023). Caveolin-1 in Muller Glia Exist as Heat-Resistant, High Molecular Weight Complexes. *Advances in Experimental Medicine and Biology*, 1415, 249-256. PMID: 37440041. DOI: 10.1007/978-3-031-27681-1_36.
11. Suarez, M. F., Schmitt, H. M., Kuhn, M. S., Watkins, T., Hake, K. M., Weisz, T., Flynn 3rd, E. J., **Elliott, M. H.**, Hauser, M. A., Stamer, W. D. (2023). Genetic background determines severity of

- Loxl1-mediated systemic and ocular elastosis in mice. *Disease Models & Mechanisms*, 16(11), dmm050392. PMID: 37905384. DOI: 10.1242/dmm.050392
12. Agbaga, M.-P., McClellan, M. E., **Elliott, M. H.**[#] (2023). Analysis of lipids, fatty acid, and cholesterol in membrane microdomains. *Methods in Molecular Biology*, 2625, 129-139. PMID: 36653639. DOI: 10.1007/978-1-0716-2966-6_12
 13. Chucair-Elliott, A. J.[#], Ocanas, S. R., Pham, K., Van Der Veldt, M., Cheyney, A. A., Stanford, D., Gurley, J. M., **Elliott, M. H.**, Freeman, W. M.[#] (2022). Translational response of retinal Müller glia to acute and chronic stress. *Neurobiology of Disease*, 175. PMID: 36423879. DOI: 10.1016/j.nbd.2022.105931
 14. Enyong, E. N.^{*}, Gurley, J. M.^{*}, De Ieso, M. L., Stamer, W. D., **Elliott, M. H.**[#] (2022). Caveolar and non-Caveolar Caveolin-1 in ocular homeostasis and disease. *Progress in Retinal and Eye Research*, 91. PMID: 35729002. DOI: doi: 10.1016/j.preteyeres.2022.101094
 15. McKay, T. B., Kivanany, P. B., Nicholas, S. E., Nag, O. K.^{*}, **Elliott, M. H.**, Petroll, W. M., Karamichos, D.[#] (2022). Quercetin Decreases Corneal Haze In Vivo and Influences Gene Expression of TGF-Beta Mediators In Vitro. *Metabolites*, 12(7), 626. PMID: 35888751. DOI: 10.3390/metabo12070626
 16. De Ieso, M. L., Kuhn, M., Bernatchez, P. N., **Elliott, M. H.**[#], Stamer, W. D.[#] (2022). A Role of Caveolae in Trabecular Meshwork Mechanosensing and Contractile Tone. *Frontiers in Cell and Developmental Biology*, 10:855097. PMID: 35372369. DOI: <https://doi.org/10.3389/fcell.2022.855097>
 17. Miller, L. R., Tarantini, S., Nyul-Toth, A., Johnston, M. P., Martin, T., Bullen, E. C., Bickel, M. A., Sonntag, W. E., Yabluchanskiy, A., Csiszar, A., Ungvari, Z., **Elliott, M. H.**, Conley, S. M.[#] (2022). Increased Susceptibility to Cerebral Microhemorrhages is Associated with Imaging Signs of Microvascular Degeneration in the Retina in an Insulin-Like Growth Factor 1 Deficient Mouse Model of Accelerated Aging. *Frontiers in Aging Neuroscience*, 14:788296. PMID: 35356301. DOI: <https://doi.org/10.3389/fnagi.2022.788296>
 18. McDowell, C. M., Kizhatil, K., **Elliott, M. H.**, Overby, D. R., van Batenburg-Sherwood, J., Millar, J. C., Kuehn, M. H., Zode, G., Acott, T. S., Anderson, M. G., Bhattacharya, S. K., Bertrand, J. A., Borrás, T., Bovenkamp, D. E., Cheng, L., Danias, J., De Ieso, M. L., Du, Y., Faralli, J. A., Fuchshofer, R., Ganapathy, P. S., Gong, H., Herberg, S., Hernandez, H., Humphries, P., John SWM, Kaufman, P. L., Keller, K. E., Kelley, M. J., Kelly, R. A., Krizaj, D., Kumar, A., Leonard, B. C., Lieberman, R. L., Liton, P., Liu, Y., Liu, K. C., Lopez, N. N., Mao, W., Mavlyutov, T., McDonnell, F., McLellan, G. J., Mzyk, P., Nartey, A., Pasquale, L. R., Patel, G. C., Pattabiraman, P. P., Peters, D. M., Raghunathan, V., Rao, P. V., Rayana, N., Raychaudhuri, U., Reina-Torres, E., Ren, R., Rhee, D., Chowdhury, U. R., Samples, J. R., Samples, E. G., Sharif, N., Schuman, J. S., Sheffield, V. C., Stevenson, C. H., Soundararajan, A., Subramanian, P., Sugali, C. K., Sun, Y., Toris, C. B., Torrejon, K. Y., Vahabikashi, A., Vranka, J. A., Wang, T., Willoughby, C. E., Xin, C., Yun, H., Zhang, H. F., Fautsch, M. P., Tamm, E. R., Clark, A. F., Ethier, C. R., Stamer, W. D. (2022). Consensus Recommendation for Mouse Models of Ocular Hypertension to Study Aqueous Humor Outflow and Its Mechanisms. *Investigative ophthalmology & visual science*, 63(2), 12. PMID: 35129590. DOI: 10.1167/iovs.63.2.12
 19. Lakk, M., Hoffmann, G. F., Gorusupudi, A., Enyong, E.^{*}, Lin, A., Bernstein, P. S., Toft-Bertelsen, T., MacAulay, N., **Elliott, M. H.**, Krizaj, D.[#] (2021). Membrane cholesterol regulates TRPV4 function, cytoskeletal expression, and the cellular response to tension. *Journal of Lipid Research*, 62, 100145. PMID: 34710431. DOI: 10.1016/j.jlr.2021.100145
 20. Gurley, J. M.^{*}, Gmyrek, G. B., Hargis, E. A.^{*}, Bishop, G. A., Carr, D. J., **Elliott, M. H.** (2021). The

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Book Chapters

1. Chucair, A. J., **Elliott, M. H.**, Cohen, A., Carr, D. J. (2015). Corneal Stem Cells: A Source of Cell Renewal with Therapeutic Potential. In Babizhayev (Ed.), *Studies on the Cornea and Lens: Applied Basic Research and Clinical Practice* (pp. 99-113). New York, NY: Springer Science and Business Media.

PRESENTATIONS

Invited

* indicates mentee

National/International

1. **Elliott, M. H.**, Ballheim, J. D.*, Mzyk, P., Kuhn, M., McClellan, M., Stamer, W. D., "Caveolin-2, an underappreciated partner in intraocular pressure control", XXVII Biennial Meeting of the International Society for Eye Research (ISER 2026), International Society for Eye Research (ISER), Valencia, Spain, Platform Presentation. August 2026.
2. **Elliott, M. H.**, "Critical role of caveolae in ocular vascular maintenance and integrity", Robert B. Barlow Jr. Distinguished Lecture in Vision Research, SUNY Upstate Medical University Center for Vision Research, Syracuse, NY, Lecture. April 8, 2026.
3. **Elliott, M. H.**, "Critical role of caveolae in ocular vascular maintenance and integrity", Oakland University Eye Research Institute - Distinguished Speakers Seminar Series, Oakland University Eye Research Institute, Rochester, MI, Lecture. February 10, 2026.
4. Ballheim, J.*, Stamer, W. Dan, **Elliott, M. H.**, "Differential effects of anesthesia on intraocular pressure in CAV1 null vs WT mice: Potential role of vasodilation", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, Fort Lauderdale, FL, Platform Presentation. December 2025.
5. **Elliott, M. H.**, "Panel: Fundamentals Session/ Presentation: Pressure-Induced Models for the Trabecular Meshwork", ISER/BrightFocus Symposium Concepts and Breakthroughs in Glaucoma/Glaucoma FastTrack, International Society for Eye Research/BrightFocus Foundation, Atlanta, GA, Panel. October 8, 2025.
6. **Elliott, M. H.**, "Critical role of caveolae in ocular vascular maintenance and integrity", Rutgers New Jersey Medical School Department of Pharmacology, Physiology, and Neuroscience Seminar Series, Rutgers New Jersey Medical School, Newark, NJ, Lecture. March 2025.
7. **Elliott, M. H.**, Myzk, P., Raman, R., Ballheim, J.*, Bankole, O.*, Stamer, W. Dan, "Molecular and functional characterization of caveolae mechanosensors in trabecular meshwork", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, San Diego, CA, Platform Presentation. December 2024.
8. **Elliott, M. H.**, Myzk, P., Raman, R., Ballheim, J.*, Bankole, O.*, Sanders, S.*, Stamer, W. D., "Mechanosensory Roles for Caveolae in Conventional Outflow", XXVI Biennial Meeting of the International Society for Eye Research, International Society for Eye Research (ISER), Buenos Aires, Argentina, Platform Presentation. October 2024.

9. **Elliott, M. H.**, Skiba, N. P., Bankole, O.* , De Ieso, M., Stamer, W. Dan, "Proteomic analysis of the caveolae interactome in human trabecular meshwork cells", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, Durham, NC, Platform Presentation. December 2023.
10. **Elliott, M. H.**, De Ieso, M., Kizhatil, K., John, S., Bankole, O.* , Stamer, W. Dan, "Caveolin function in the trabecular meshwork: progress on development of murine model", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, Washington, D.C., Platform Presentation. December 2022.
11. **Elliott, M. H.**, Kizhatil, K., McDowell, C., "Mouse models of ocular hypertension: white paper discussion", Virtual Bimonthly Trabecular Meshwork Virtual Meeting, Trabecular Meshwork Society, Online, Oral Presentation. January 27, 2021.
12. **Elliott, M. H.**, "Lipids in Diverse Functions and Pathologies in the Eye - Special Interest Group", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Vancouver, British Columbia, Panel. April 29, 2019.
13. **Elliott, M. H.**, "Glaucoma: Basic Mechanisms and Current Research", Iwate University Faculty of Science and Engineering seminar series, Iwate University Faculty of Science and Engineering, Iwate, Japan, Lecture. April 23, 2019.
14. **Elliott, M. H.**, "Light in Caves: Caveolae in Ocular Function/Dysfunction", Shimane University Faculty of Medicine Seminar series, Shimane University Faculty of Medicine, Izumo, Japan, Lecture. April 15, 2019.
15. **Elliott, M. H.**, "Seeing the Light in Caves: Caveolae Functions in the Visual System", Hamilton Eye Institute Seminar series, The University of Tennessee Health Science Center Hamilton Eye Institute, Memphis, TN, Lecture. October 2017.
16. **Elliott, M. H.**, McClellan, M. E., Freeman, W. M., Stamer, W. D., "Function of CAV1/caveolae as mechanosensors/mechanoprotectors in the conventional outflow pathway", ISER/BrightFocus 2017 Glaucoma Symposium: Basic Science Catalyzing Treatments for Glaucoma, International Society for Eye Research (ISER), Atlanta, GA, Oral Presentation. October 2017.
17. **Elliott, M. H.**, "Role of Caveolin-1 in Conventional Aqueous Outflow and Intraocular Pressure", Alcon Research Institute Scientific Symposium, Alcon Research Institute (ARI), Boston, MA, Oral Presentation. September 2015.
18. **Elliott, M. H.**, "Seeing Light in Caves: Caveolae/Caveolins in Ocular Physiology and Pathophysiology", Vanderbilt Eye Institute Academic Seminar Series, Vanderbilt University, Nashville, TN, Lecture. March 16, 2015.
19. **Elliott, M. H.**, "Seeing Light in Caves: Caveolae/Caveolins in Visual Physiology and Pathophysiology", North Texas Eye Research Institute (NTERI) Seminar Series, University of North Texas Health Sciences Center, Fort Worth, TX, Lecture. September 25, 2014.
20. **Elliott, M. H.**, "Insights into the role of caveolin-1 in ocular physiology and pathophysiology", Alcon Laboratories Research Seminar Series, Alcon Laboratories, Ft. Worth, TX, Oral Presentation. August 26, 2011.
21. **Elliott, M. H.**, "Exploring the role of caveolin-1 in the physiology and pathophysiology of the retina", University of Arizona Department of Physiology Seminar Series, University of Arizona, Tucson, AZ, Oral Presentation. March 2011.

22. **Elliott, M. H.**, "Blood-retinal barrier permeability and decreased photoreceptor function in Caveolin-1 null mice", Department of Ophthalmology and Visual Sciences Seminar Series, Department of Ophthalmology and Visual Sciences, University of Texas Medical Branch, Galveston, TX, Oral Presentation. September 2008.

Local/Regional

1. **Elliott, M. H.**, "The "eyes" have it: An introduction to ocular function in the context of inherited retinal diseases", Oklahoma City FFB Vision Connection, Foundation Fighting Blindness, Oklahoma Library for the Blind and Physically Handicapped, Lecture. April 24, 2026.
2. **Elliott, M. H.**, "Illuminating Caves: Caveolae Functions in the Visual System", OUHSC Department of Physiology Seminar Series, University of Oklahoma Health Sciences Center, Lecture. November 10, 2016.
3. **Elliott, M. H.**, "Exploring the role of caveolin-1 in retinal physiology and pathophysiology", 1st Annual Raniyah Ramadan Symposium, East Central University, Ada, OK, Keynote/Plenary Address. January 31, 2013.

Accepted

* indicates mentee

National/International

1. Mzyk, P., Skiba, N., **Elliott, M. H.**, Stamer, W. D., "Caveolin-1 regulates contractility and DNA repair in human outflow tissue", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Platform Presentation. May 2026.
2. Soriano-Dale, D.*, Chucair-Elliott, A. J., **Elliott, M. H.**, "Aging alters endothelial cell translomes in the retina and brain", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. May 2026.
3. Ballheim, J. D.*, McClellan, M., Mzyk, P., Stamer, W. D., **Elliott, M. H.**, "Caveolin-2 deficiency increases intraocular pressure and decreases caveolae-associated proteins", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. May 2026.
4. Bankole, O. O.*, Soriano-Dale, D.*, Dyka, F. M., Ash, J. D., **Elliott, M. H.**, "Retinal neuroprotective role of Muller glia non-caveolar caveolin-1: Tale of a missing sibling", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. May 2026.
5. Wells, B. L., Stanford, D. R., Filiberti, A., Pham, K., Plafker, S., Stout, M., **Elliott, M. H.**, Freeman, W. M., Chucair-Elliott, A. J., "Translatomic profile of the Sod2-deficient retinal pigmented epithelium", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. May 2026.
6. Mzyk, P., **Elliott, M. H.**, Stamer, W. D., "Sequestration of ROCK1 by Caveolin-1 in Human Schlemm's Canal Cells After Cyclic Stretch", ISER/BrightFocus Symposium Concepts and Breakthroughs in Glaucoma, International Society for Eye Research/BrightFocus Foundation, Atlanta, GA, Platform Presentation. October 2025.
7. Ballheim, J.*, Mzyk, P., Stamer, W. D., **Elliott, M. H.**, "Role for Caveolin-1 in IOP Homeostasis and Outflow Vessel Tone Independent of ROCK Inhibition or Isoflurane IOP Lowering Effects", ISER/BrightFocus Symposium Concepts and Breakthroughs in Glaucoma, International Society for

Eye Research/BrightFocus Foundation, Atlanta, GA, Poster. October 2025.

8. Zhang, C., Ballheim, J. D.*, Simon, M., Lim, H., Tolman, N., Montgomery, C., **Elliott, M. H.**, John, S. W.M., "IOP-induced enhancement of transcytosis compromises the blood-retinal barrier in DBA/2J glaucoma", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Salt Lake City, UT, Paper. May 2025.
9. Stamer, W. D., Kelly, R. A., **Elliott, M. H.**, Overby, D. R., "Nitric Oxide signaling in conventional outflow endothelia is central to IOP homeostasis", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Salt Lake City, UT, Paper. May 2025.
10. Ballheim, J. D.*, Gurley, J. M.*, **Elliott, M. H.**, "Age-related loss of vascular mural cell coverage in the human retina", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Salt Lake City, UT, Poster. May 2025.
11. Mzyk, P., **Elliott, M. H.**, Stamer, W. D., "Cyclic stretch alters the CAV1 interactome in human Schlemm's canal cells", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Salt Lake City, UT, Poster. May 2025.
12. Bankole, O.*, McClellan, M., Ash, J. D., **Elliott, M. H.**, "Non-caveolar Caveolin-1 modulates TNF α signaling in Muller glia", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Salt Lake City, UT, Poster. May 2025.
13. Chucair-Elliott, A. J., Pham, K., Ocanas, S. R., Freeman, W. M., **Elliott, M. H.**, "Comparative Analysis of In vivo Endothelial Cell Translatomes Across Central Nervous System Vascular Beds", XXVI Biennial Meeting of the International Society for Eye Research, International Society for Eye Research (ISER), Buenos Aires, Argentina, Platform Presentation. October 2024.
14. Chucair-Elliott, A. J., Ocanas, S. R., Pham, K., Plafker, S., Stout, M., **Elliott, M. H.**, Freeman, W., "Age- and sex-divergent translatomic responses of the retinal pigmented epithelium", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Platform Presentation. May 2024.
15. Kelly, R. A., Kuhn, M., **Elliott, M. H.**, Reina-Torres, E., Overby, D. R., Stamer, W. D., "Postnatal deletion of Nos3 prevents IOP dysregulation observed in global null mice", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Platform Presentation. May 2024.
16. Rahman, R., Mzyk, P., **Elliott, M. H.**, Stamer, W. D., "Defining the CAV1 interactome in human trabecular meshwork cells", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Poster. May 2024.
17. Bankole, O.*, Gurley, J.*, Ash, J. D., **Elliott, M. H.**, "Non-caveolar Caveolin-1 in Muller glia mediates LIF secretion: Potential Role in Retinal Neuroprotection", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Poster. May 2024.
18. Bankole, O.*, Enyong, E.*, McClellan, M., Ash, J., **Elliott, M. H.**, "Non-caveolar Caveolin1 in Müller glia as a potential target in retinal neuro-inflammation", XXth International Symposium on Retinal Degeneration, Torremolinos, Andalusia, Spain, Poster. October 2023.
19. De Ieso, M., Kizhatil, K., John, S., Bankole, O.*, **Elliott, M. H.**, Stamer, W. D., "Selective Knockout of Caveolin-1 in the Trabecular Meshwork Elevates Intraocular Pressure and Reduces Outflow Facility in Mice", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), New Orleans, LA, Platform Presentation. May 2023.

20. Garrett, S.*, **Elliott, M. H.**, Gurley, J., "Assessment of Retinal Arterial Leakage at Sites of Vascular Smooth Muscle Cell Loss in Caveolin-1 KO and Aged Mice", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), New Orleans, LA, Poster. May 2023.
21. Dillinger, A. E., Dlugosch, A., **Elliott, M. H.**, Fuchshofer, R., "Caveolin-1 and CCN2/CTGF interplay in optic nerve astrocyte reactivity", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), New Orleans, LA, Poster. May 2023.
22. Bankole, O.*, Enyong, E. N.*, Gurley, J., Agbaga, M.-P., Ash, J. D., **Elliott, M. H.**, "Non-caveolar Caveolin-1 in Muller glia mediates LPS-induced NF-kB signaling and IL-6", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), New Orleans, LA, Poster. May 2023.
23. Chucair-Elliott, A. J., Ocanas, S. R., Pham, K., Porter, H., Stanford, D., Plafker, S., Stout, M., **Elliott, M. H.**, Freeman, W. M., "The Retinal Pigmented Epithelium translational responses to aging are sexually divergent", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), New Orleans, LA, Poster. May 2023.
24. Chucair-Elliott, A. J., Ocanas, S., Pham, K., Van Der Veldt, M., Cheyney, A., Stanford, D., **Elliott, M. H.**, Freeman, W., "Cell-specific Studies Through Novel Mouse Model Reveal the Transcriptomic Response of Retinal Muller Glia to Aging", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Platform Presentation. June 2022.
25. De Ieso, M. L., Kuhn, M., **Elliott, M. H.**, Stamer, W. D., "The role of protein kinase C in the regulation of trabecular meshwork contractile tone via caveolin-1 scaffolding domain", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Platform Presentation. June 2022.
26. Suarez, M. F., Schmitt, H., Hake, K., Kuhn, M., Watkins, T., **Elliott, M. H.**, Hauser, M. A., Stamer, W. D., "Characterization of Loxl1-knockout-induced elastosis in mice with different genetic backgrounds", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. June 2022.
27. Gurley, J. M.*, Hargis, E. H.*, Pranay, A., Batushansky, A., Schafer, C., Enyong, E. N.*, Griffin, C., Griffin, T., **Elliott, M. H.**, "Endothelial cell (EC) Caveolin-1 depletion affects whole retinal metabolism and retinal microvascular EC Notch receptor expression", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. June 2022.
28. Enyong, E. N.*, Gurley, J. M.*, Agbaga, M.-P. G., **Elliott, M. H.**, "Non-caveolar Caveolin-1 in Muller glia regulate retinal innate immune responses", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. June 2022.
29. **Elliott, M. H.**, De Ieso, M., Kuhn, M., Enyong, E.*, McClellan, M. E., Stamer, W. Dan, "Caveolae in the outflow pathway: role in nitric oxide regulation, distal vessel caliber, and plasmalemmal vesicle associated protein expression", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, San Diego, Platform Presentation. December 10, 2021.
30. Enyong, E. N.*, Gurley, J. M.*, Gyening, Y. K., Agbaga, M.-P., Pilch, P. F., **Elliott, M. H.**, "Non-caveolar caveolin-1 in MIO-M1 Müller glia enhance LPS-induced IL-6 response", International Symposium on Retinal Degeneration, Nashville, TN, Poster. September 28, 2021.
31. Gurley, J.*, **Elliott, M. H.**, "Endothelial-Cav1, but not smooth muscle-Cav1, is important for retinal arteriole smooth muscle cell maintenance", Vascular Biology 2020, North American Vascular Biology Organization, Online presentation due to COVID 19. October 2020.

32. Gurley, J.* , Delfavero, J.* , **Elliott, M. H.**, "Neural-retinal Traf3 promotes retinal immune response to optic nerve crush injury", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Online presentation due to COVID 19. June 2020.
33. Enyong, E.* , Gyening, Y. K., Agbaga, M.-P., Shi-Ying, D., Pilch, P., Liu, L., **Elliott, M. H.**, "The role of non-caveolar caveolin-1 in Muller glia", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), online, Online presentation due to COVID 19. June 2020.
34. **Elliott, M. H.**, De Ieso, M., Gomez-Caraballo, M., Li, G., Gurley, J. M.* , Gu, X.* , McClellan, M. E., Stamer, W. Dan, "Caveolae in the outflow pathway: role in nitric oxide regulation, distal vessel caliber, and plasmalemmal vesicle associated protein expression", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, Baltimore, MD, Platform Presentation. December 7, 2019.
35. Gurley, J. M.* , Reagan, A.* , Standifer, N.* , Stout, M. B., **Elliott, M. H.**, "Endothelial cell-derived caveolin-1 expression and leptin signaling support retinal vascular smooth muscle cell coverage", Vascular Biology 2019, North American Vascular Biology Organization, Pacific Grove, CA, Poster. October 28, 2019.
36. Gomez-Caraballo, M., Perkumas, K., Kalnitsky, J., **Elliott, M. H.**, Stamer, W. Daniel, "Caveolin-mediated mechanosensation in Schlemm's canal endothelia", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Vancouver, British Columbia, Poster. April 30, 2019.
37. Ziegler, J.* , Wong, L.* , **Elliott, M. H.**, "Characterizing the role of Caveolin1 in limbal and corneal epithelium during homeostasis", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Vancouver, British Columbia, Poster. April 30, 2019.
38. **Elliott, M. H.**, McClellan, M. E., Navarro, I., Gurley, J.* , Stamer, W. Daniel, "Endothelial Caveolin-1 Deficiency Results in Enlarged Distal Vessels", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Vancouver, British Columbia, Platform Presentation. April 29, 2019.
39. Gurley, J.* , Reagan, A.* , Standifer, N.* , Stout, M., **Elliott, M. H.**, "Reduced retinal arteriole smooth muscle coverage with age: a potential caveolin-1 dependent mechanism of altered retinal metabolism", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Vancouver, British Columbia, Poster. April 29, 2019.
40. **Elliott, M. H.**, Stamer, W. Daniel, "Role of caveolae in modulation of intraocular pressure and aqueous drainage", The 123rd Annual Meeting of the Japanese Ophthalmological Society, The Japanese Ophthalmological Society, Tokyo, Japan, Platform Presentation. April 18, 2019.
41. **Elliott, M. H.**, McClellan, M. E., Navarro, I., Stamer, W. Dan, "Endothelial caveolin-1 deficiency results in increased intraocular pressure in the context of enlarged distal vessels", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, San Diego, CA, Platform Presentation. December 7, 2018.
42. **Elliott, M. H.**, McClellan, M. E., Navarro, I., Stamer, W. Dan, "Role of endothelial caveolin-1 in the conventional outflow pathway", ISER Biennial Meeting, International Society for Eye Research (ISER), Belfast, Northern Ireland, UK, Platform Presentation. September 10, 2018.
43. **Elliott, M. H.**, McClellan, M. E., Freeman, W. M., Stamer, W. D., "Role of caveolae as mechanosensors in Schlemm's canal", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Honolulu, HI, Platform Presentation. April 2018.

44. Gurley, J.*, Carr, D. J., **Elliott, M. H.**, "TRAF3 (TNF Receptor-Associated Factor 3), a potential regulator of retinal inflammation, is highly expressed in the murine retina", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Honolulu, HI. April 2018.
45. **Elliott, M. H.**, McClellan, M. E., Freeman, W. M., Stamer, W. D., "Role of caveolae as mechanosensors in conventional outflow", Annual Trabecular Meshwork Study Club, Trabecular Meshwork Society, Portland, OR, Oral Presentation. November 30, 2017.
46. Gurley, J., Carr, D. J., Stamer, W. D., Hauck, S. M., **Elliott, M. H.**, "Neuroretina-specific caveolin-1 depletion blunts retinal inflammation: potential role of enhanced TRAF3 production", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Baltimore, MD, Oral Presentation. May 2017.
47. Reagan, A. M.*, Paudel, S.*, **Elliott, M. H.**, "Caveolin-1 deficiency accelerates age-related loss of contractile smooth muscle cells on retinal arteries", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Baltimore, MD, Poster. May 2017.
48. Reagan, A. M.*, **Elliott, M. H.***, "Contractile properties of retinal arterioles are reduced with age", Emerging Mechanisms of Vascular Biology, Disease, and Treatment, Gordon Research Conference, Ventura, CA, Oral Presentation. January 2017.
49. Reagan, A. M.*, **Elliott, M. H.**, "Caveolin-1 modulates retinal damage response following acute ischemia reperfusion", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Oral Presentation. May 2016.
50. **Elliott, M. H.**, Gu, X.*, Ungvari, Z., Csiszar, A., Sonntag, W. E., "Aging results in segmental reduction in contractile smooth muscle coverage on retinal arterioles", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Poster. May 2016.
51. Reagan, A. M., **Elliott, M. H.**, "Caveolin-1 modulates retinal damage response following acute ischemia reperfusion", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Oral Presentation. 2015.
52. **Elliott, M. H.**, Reagan, A. M.*, Gu, X.*, Mandal, N., Carr, D. J., Ash, J. D., "Caveolin-1 modulates retinal neuroprotective and inflammatory signaling", International Symposium on Retinal Degeneration, Pacific Grove, CA, Platform Presentation. 2015.
53. **Elliott, M. H.**, Hauck, S. M., Dozmorov, M. G., Liang, J., McClellan, M. E., Wren, J. D., Stamer, W. D., "Caveolae and conventional outflow: proteomic profiling of outflow tissue caveolae and evidence of mechanosensing", ARVO Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Denver, CO, Poster. 2015.
54. Reagan, A. M.*, Gu, X.*, Mandal, N., Carr, D. J., Ash, J. D., **Elliott, M. H.**, "Caveolin-1 modulates retinal neuroprotective and inflammatory signaling", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Orlando, FL, Oral Presentation. 2014.
55. Sudharsan, R., Dolgova, N., **Elliott, M. H.**, Beltran, W. A., "Optimization of rod photoreceptor", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Orlando, FL, Oral Presentation. 2014.
56. **Elliott, M. H.**, Gu, X.*, Ashpole, N. E., Griffith, G. L.*, Boyce, T. M.*, Tanito, M., Tamm, E. R., Stamer, W. D., "Role of caveolin-1 in intraocular pressure and conventional outflow regulation", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Orlando, FL, Oral Presentation. 2014.

57. Gu, X.* , Fliesler, S. J., Zhao, Y. Y., Stallcup, W. B., Cohen, A. W., **Elliott, M. H.***, "A critical role for caveolin-1 in eNOS-dependent retinal arterial autoregulation and eNOS-independent retinal venous pathology", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Orlando, FL, Poster. 2014.
58. **Elliott, M. H.**, "Caveolae and Conventional Outflow: Proteomic Profiling of Outflow Tissue Caveolae and Functional Studies in Caveolae-Deficient Mice", Biennial Meeting, International Society for Eye Research (ISER), San Francisco, CA, Oral Presentation. July 24, 2014.
59. **Elliott, M. H.**, "Caveolin-1 Modulates Retinal Neuroprotective and Inflammatory Signaling", International Symposium on Retinal Degeneration, Pacific Grove, CA, Oral Presentation. July 14, 2014.
60. Mandal, N. A., Chen, H., Tran, J.-T., **Elliott, M. H.**, Brush, R. S., "Ceramide biosynthesis inhibition protects retina from light-induced degeneration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA. 2013.
61. Agbaga, M.-P., Hopiavouri, B., Li, F., McRae, J., Mandal, N. A., Brush, R. S., Marchette, L., **Elliott, M. H.**, Ayyagari, R., Anderson, R. E., "Conditional depletion of retinal VLC-PUFAs causes retinal dysfunction", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA. 2013.
62. **Elliott, M. H.**, Li, X., Gu, X., Reagan, A. M., Boyce, T. M., Sluch, I., Mandal, N. A., Callegan, M. C., Carr, D. J., "Paradoxical role of caveolin-1 in retinal inflammation", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Oral Presentation. 2013.
63. **Elliott, M. H.**, Gu, X., Ashpole, N. E., Boyce, T. M., Tanito, M., Tamm, E. R., Stamer, W. D., "Role of caveolin-1 in conventional aqueous outflow pathway structure and function", ISER/Brightfocus: Molecular Mechanisms of Glaucoma, International Society for Eye Research (ISER), Sarasota, FL, Oral Presentation. 2013.
64. Gu, X.* , Fliesler, S. J., **Elliott, M. H.***, "Loss of caveolin-1 results in blood-retinal barrier permeability, venous enlargement, and mural cell alteration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Seattle, WA, Poster. 2013.
65. **Elliott, M. H.**, Gu, X.* , Ashpole, N. E., Boyce, T.* , Tanito, M., Tamm, E. R., Stamer, W. D., "Role of caveolin-1 in conventional aqueous outflow pathway structure and function", ISER/BrightFocus: Molecular Mechanisms of Glaucoma, Sarasota, FL, Oral Presentation. September 20, 2013.
66. Chucair-Elliott, A. J., **Elliott, M. H.**, Wang, J., Ash, J. D., "A unique stress response pathway in the retina downregulates the visual cycle and protects the RPE from damage induced by sodium iodate", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2012.
67. Agbaga, M.-P. G., Hopiavouri, B., Mandal, M. N., Brush, R. S., Marchette, L., **Elliott, M. H.**, Ayyagari, R., Anderson, R. E., "Expression of mutant ELOVL4 in absence of retinal VLC-PUFAs leads to photoreceptor dysfunction", International Symposium on Retinal Degeneration, Bad Gogging, Bavaria, Germany, Oral Presentation. 2012.
68. Li, X., Boyce, T. M., Iqbal, T. M., Khan, H., Mandal, M. N., Wheatley, N., Callegan, M. C., Carr, D. J., **Elliott, M. H.**, "Paradoxical role of caveolin-1 in inflammatory modulation in the retina", Biennial Meeting, International Society for Eye Research, Berlin, Germany, Oral Presentation. 2012.
69. Agbaga, M.-P. G., Hopiavouri, B., Mandal, M. N., Brush, R. S., Marchette, L., **Elliott, M. H.**,

- Anderson, R. E., "Retinal expression of mutant ELOVL4 in absence of retinal VLC-PUFAs leads to photoreceptor degeneration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2012.
70. **Li, X.***, Boyce, T. M.*, Iqbal, H.*, Khan, M. S., Mandal, M. N., Wheatley, N., Callegan, M. C., Carr, D. J., Elliott, M. H., "Paradoxical role of caveolin-1 in retinal inflammation", International Symposium on Retinal Degeneration, Bad Gogging, Bavaria, Germany, Platform Presentation. 2012.
 71. **Elliott, M. H.**, Dozmorov, M., Li, X.*, Iqbal, H.*, McClellan, M. E., Wren, J. D., Cao, G., Thompson, T. C., Ueffing, M., Hauck, S. M., "Insights into Caveolin-1 Function: Quantitative Proteomic Analysis of a Novel Retina-Specific Knockout Mouse Model", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2012.
 72. Zhang, J., Wu, M., Fu, D., Yang, S., **Elliott, M. H.**, Du, M., Wilson, K. W., Lyons, T. J., "Acceleration of retinopathy by intravitreal injection of modified low density lipoproteins in STZ diabetic mice", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2011.
 73. Wu, M., Yang, S., **Elliott, M. H.**, Fu, D., Wilson, K., Zhang, J., Du, M., Chen, J., Lyons, T. J., "High oxidized low density lipoprotein induces apoptosis in human retinal Muller cells via activation of oxidative stress and endoplasmic reticulum stress", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2011.
 74. **Elliott, M. H.**, Li, X.*, McClellan, M. E., Tanito, M., Woodruff, M. L., Fain, G. L., Garteiser, P., Towner, R. A., Berkowitz, B. A., Fliesler, S. J., "Loss of Caveolin-1 Impairs Retinal Function Due to a Disturbance of the Retinal Microenvironment", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2011.
 75. Moiseyev, G., Mandal, M. N., **Elliott, M. H.**, Kasus-Jacobi, A., Zheng, L., Tran, J. A., Chen, H., Floyd, R. A., Ma, J.-X., Anderson, R. E., "PBN protection of retinal from light-damage is through inhibition of RPE65 isomerohydrolase activity", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2011.
 76. Wu, M., Yang, S., **Elliott, M. H.**, Fu, D., Wilson, K., Zhang, J., Du, M., Chen, J., Lyons, T. J., "Role of extravasated lipoproteins in Muller cell death in diabetic retinopathy", Annual Meeting, American Diabetes Association, San Diego, CA, Oral Presentation. 2011.
 77. Li, X., **Elliott, M. H.***, "ERK phosphorylation is negatively regulated by caveolin-1 in Muller glial cells", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2011.
 78. **Elliott, M. H.**, McClellan, M. E., Mandal, M. A., Ash, J. D., Nagel, B., Ryerse, J., Fliesler, S. J., "Caveolin-1 regulates sodium-potassium ATPase activity in the retinal pigment epithelium", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, Florida, Oral Presentation. 2010.
 79. Garteiser, P., Towner, R. A., Berkowitz, B. A., Saunders, D., Cranford, R., **Elliott, M. H.**, "Evaluation of the applicability of manganese-enhanced and dynamic gadolinium-enhanced imaging to study the role of caveolin-1 in blood-retinal barrier integrity", Annual Meeting, International Society for Magnetic Resonance in Medicine, Stockholm, Sweden, Oral Presentation. 2010.
 80. Novosad, B. D., **Elliott, M. H.**, Callegan, M. C., "Toll-Like Receptor 2 (TLR2) Contributes to Intraocular Inflammation and Barrier Permeability During Experimental *Bacillus cereus*

- Endophthalmitis", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Oral Presentation. 2010.
81. Ueki, Y., **Elliott, M. H.**, Molday, L. L., Molday, R. S., Ash, J. D., "Absence of neuronal transmission occurs prior to the development of Schisis in a new mouse model for X-linked Juvenil Retinoschisis (Rs1E4E5)", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2010.
 82. **Elliott, M. H.**, McClellan, M. E., Mandal, N., Ash, J. D., "Abnormal adhesion of the retina to the retinal pigment epithelium in Caveolin-1 null mice: Possible relationship to edema", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2009.
 83. Chucair, A. J., Wang, J., **Elliott, M. H.**, Ash, J. D., "Leukemia inhibitory factor (LIF) induces protection of photoreceptors without reducing oxidative injury", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2009.
 84. Agbaga, M.-P., Mandal, N., Brush, R. S., Zheng, L., Henry, K., **Elliott, M. H.**, Vasireddy, V., Petrukhin, K., Ayyagari, R., Anderson, R. E., "Quantitative analysis of ELOVL4 protein and fatty acid products in knock-out and knock-in mouse tissues", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2009.
 85. Lo, W. K., Biswas, S., **Elliott, M. H.**, "Role of aquaporin-0 in lens membrane architecture-ultrastructural perspective from intact lenses of caveolin1-null and emory mutant mice", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2009.
 86. **Elliott, M. H.**, McClellan, M. E., Mandal, M. N., Ash, J. D., "Caveolin-1 null mice display increased blood-retinal barrier permeability", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2008.
 87. Tanito, M., **Elliott, M. H.**, Brush, R. S., Wicker, L. D., Henry, K. R., Anderson, R. E., "Comparison of the susceptibility of Fat-1 and wild type mice fed an n-3 polyunsaturated fatty acid deficient diet to light-induced retinal degeneration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2008.
 88. Agbaga, M.-P., Brush, R. S., Mandal, M. N., Henry, K. R., **Elliott, M. H.**, Anderson, R. E., "ELOVL4 protein and biosynthesis of very long chain fatty acids", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2008.
 89. Ding, X.-Q., Fitzgerald, J. B., McClellan, M. E., **Elliott, M. H.**, "Functional role of the low buoyant-density detergent-resistant membranes in cone cyclic nucleotide-gated channel activation", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2007.
 90. **Elliott, M. H.**, McClellan, M. E., Hancock, S. B.*, Wiechmann, A. F., Boes, M.*, "Localization of eGFP-caveolin-1 transgene in Xenopus laevis photoreceptors suggests a role in intracellular transport", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2007.
 91. **Elliott, M. H.**, Hancock, S. B., Weichmann, A. F., Boes, M., "Characterization of Caveolin-1 expression in wild-type and transgenic Xenopus laevis", Biennial Meeting, International Society for Eye Research (ISER), Buenos Aires, Argentina, Oral Presentation. 2006.
 92. **Elliott, M. H.**, Tanito, M., McClellan, M. E., Birch, D. G., "Reduced retinal function in mice in which

- the gene for caveolin-1 has been deleted", International Symposium on Retinal Degeneration, San Carlos de Bariloche, Argentina, Oral Presentation. 2006.
93. **Elliott, M. H.**, Tanito, M., McClellan, M. E., Birch, D. G., "Caveolin-1 null mice have reduced retinal function without overt retinal degeneration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2006.
 94. Brush, R. S., Wicker, L. D., Henry, K., **Elliott, M. H.**, Tanito, M., Anderson, R. E., "Characterization of retinal chemistry and function of Fat-1 transgenic mice maintained on an N-6 polyunsaturated fatty acid enriched diet", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2006.
 95. Dittmar, M., Li, F., **Elliott, M. H.**, Tanito, M., Anderson, R. E., "Protection of photoreceptors by antioxidants OT-551 and OT-674 in a rat model of light-induced retinal degeneration", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2006.
 96. **Elliott, M. H.**, Rabe, D.*, Wiechmann, A. F., Ash, J. D., Anderson, R. E., "Cloning, developmental expression, and tissue distribution of a retinally-expressed isoform of *Xenopus* caveolin-1", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2005.
 97. Nash, Z., **Elliott, M. H.**, Takemori, N., Matsumoto, H., Anderson, R. E., Naash, M. I., "Protein characterization of triton-insoluble detergent-resistant membrane fractions in bovine rod outer segments", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2005.
 98. Martin, R. E., **Elliott, M. H.**, Brush, R. S., Ball, G. S., Anderson, R. E., "Lipid and Fatty Acid Content of Detergent Resistant Membranes from Bovine Photoreceptor Outer Segments", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2004.
 99. **Elliott, M. H.**, Ghalayini, A. J., Rajala, R. V., Martin, R. E., Barkus, K., Dobrowsky, R. T., Anderson, R. E., "Lipid domains in vertebrate photoreceptors: elucidation of a functional interaction between caveolin-1 and the alpha subunit of transducin", Lipid Domains, Keystone Symposia, Vancouver, British Columbia, Poster. 2004.
 100. **Elliott, M. H.**, "Structure and function of lipid raft domains in photoreceptor cell membranes", Dickinson College, Carlisle, PA, Lecture. 2003.
 101. **Elliott, M. H.**, Ghalayini, A. J., Rajala, R. V., Barkus, K., Dobrowsky, R. T., Anderson, R. E., "Molecular Dissection of the Interaction Between Caveolin-1 and the Alpha Subunit of Transducin", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2003.
 102. **Elliott, M. H.**, Ghalayini, A. J., "Caveolin-1 in Rod Outer Segment (ROS) Membranes is Phosphorylated by an Endogenous Tyrosine Kinase", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2002.
 103. Ghalayini, A. J., **Elliott, M. H.**, "Light-dependent Reciprocal Association of α and Arrestin with Photoreceptor Rod Outer Segment (ROS) Cytoskeleton In Vivo", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2002.
 104. **Elliott, M. H.**, Ghalayini, A. J., "Phosphorylation of Caveolin-1 on Tyrosine 14 by an Endogenous Kinase in Detergent-resistant Membranes Isolated from Photoreceptor Rod Outer Segments",

Tyrosine Phosphorylation and Cell Signaling, Salk Institute, La Jolla, CA, Poster. 2002.

105. **Elliott, M. H.**, Ghalayini, A. J., "Caveolin, a photoreceptor outer segment (ROS) protein that cofractionates with the alpha subunit of transducin and c-Src", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2001.
106. **Elliott, M. H.**, Ghalayini, A. J., "Caveolin-1, a putative scaffolding protein, associates with the alpha subunit of transducin (T α) in photoreceptor rod outer segments (ROS)", Symposium on the Chemistry and Biology of Vision, Federation of American Societies for Experimental Biology (FASEB), Tucson, AZ, Poster. 2001.
107. **Elliott, M. H.**, Ghalayini, A. J., Floor, E. R., "Protein oxidation in bovine and rat rod outer segments (ROS)", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 2000.
108. **Elliott, M. H.**, Wetzl, M. G., Dahl, N. A., Floor, E., "Regional variation and distribution of oxidized proteins in human retinas: evidence of increased protein oxidation in the macula", Annual Meeting, Association for Research in Vision and Ophthalmology (ARVO), Ft. Lauderdale, FL, Poster. 1998.

Local/Regional

1. **Elliott, M. H.**, "Caveolae in Ocular Physiology and Pathophysiology", Vision Club Seminar Series, University of Oklahoma Health Sciences Center, Dean McGee Eye Institute, Lecture. March 24, 2016.
2. **Elliott, M. H.**, "Membrane domain function in ocular physiology and pathophysiology", Department of Medicine-Endocrinology Research Conference, University of Oklahoma Health Sciences Center, Lecture. January 30, 2013.
3. **Elliott, M. H.**, "Critical role of Caveolin-1 in the Maintenance of the Retinal Microenvironment", Central Region IDeA Conference, Omaha, NE, Oral Presentation. 2011.
4. **Elliott, M. H.**, "Role for caveolin-1 in retinal function and pathology", Department of Physiology Seminar Series, University of Oklahoma Health Sciences Center, Lecture. March 2011.
5. Vincent, A.*, Le, Y. Z., Thompson, T. C., **Elliott, M. H.**, "Generation of retinal pigment epithelium-specific conditional knockout mouse of caveolin-1", Graduate Research Education and Technology (GREAT) Symposium, OUHSC, Oklahoma City, OK, Poster. 2010.
6. **Elliott, M. H.**, "Exploring the role of caveolin-1 in retinal function and dysfunction", Seminar Series, Oklahoma Center for Neuroscience, Lecture. August 2010.
7. **Elliott, M. H.**, Flood, M.*, McClellan, M. E., Komori, N., Singh, A., Matsumoto, H., "Isolation and partial characterization of vascular endothelial membranes from the retina and choroid", Diabetes Research Retreat, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Poster. 2009.
8. **Elliott, M. H.**, McClellan, M. E., Mandal, M. N., Ash, J. D., "Abnormal adhesion of the retina to the retinal pigment epithelium in caveolin-1 null mice: possible relationship to edema", IDeA Central Regional Conference, Oklahoma City, Oklahoma. May 2009.
9. **Elliott, M. H.**, "Role of Caveolin-1 in the maintenance of the blood-retinal barrier", Faculty Leadership Program, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Lecture. 2008.

10. **Elliott, M. H.**, "Blood-retinal barrier hyperpermeability in caveolin-1 null mice", Diabetes Research Retreat, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. 2008.
11. **Elliott, M. H.**, Wu, M. W., McClellan, M. E., Ash, J. D., Lyons, T. J., Matsumoto, H., "Blood-retinal barrier hyperpermeability in caveolin-1 null mice", Diabetes Research Retreat, University of Oklahoma Health Sciences Center, Oklahoma City, OK, Oral Presentation. 2008.

TEACHING AND INSTRUCTION

Teaching and Course Instruction – OUHSC/SCM

Year(s) of Instruction	Course ID	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
Spring 2025	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2025	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2025	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	3	Graduate
Fall 2024	OCNS 6001	Neuroscience Journal Club	Classroom Instructor	15	Graduate
Spring 2024	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2024	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2024	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	3	Graduate
Fall 2023	OCNS 6001	Neuroscience Journal Club	Classroom Instructor	15	Graduate
Spring 2023	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2023	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2023	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2022	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2022	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2022	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2021	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2021	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2020	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2020	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2020	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2020	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2020	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2020	OCNS 6311	Neuroimmunol and Neuroinflammation	Lecturer	1.5	Graduate
Fall 2019	BMSC 5221	Interdisciplinary First Year Journal Club	Classroom Instructor	4	Graduate
Fall 2019		Responsible Conduct of Research	Lecturer	1	Graduate
Spring 2019	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate

Year(s) of Instruction	Course ID	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
Spring 2019	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2019	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2019	OCNS 6311	Neuroimmunol and Neuroinflammation	Lecturer	1.5	Graduate
Fall 2018	BMSC 5221	Interdisciplinary First Year Journal Club	Classroom Instructor	4	Graduate
Fall 2018	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2018	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Fall 2018		Responsible Conduct of Research	Lecturer	1	Graduate
Spring 2018	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2018	PHYO 6401	Genes to Physiology: Angiogenesis and Lymphangiogenesis	Instructor	15	Graduate
Spring 2018	OCNS 6311	Neuroimmunol and Neuroinflammation	Lecturer	1.5	Graduate
Spring 2018	OCNS 6001	Neuroscience Journal Club	Classroom Instructor	15	Graduate
Fall 2017	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2017	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Fall 2017		Responsible Conduct of Research	Lecturer	1	Graduate
Spring 2017	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2017	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2016	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2016	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2016	OCNS 6201	Behavioral Neuroscience	Lecturer	1.5	Graduate
Spring 2016	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2016	OCNS 6311	Neuroimmunol and Neuroinflammation	Lecturer	1.5	Graduate
Fall 2015	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2015	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Spring 2015	OCNS 6311	Neuroimmunol and Neuroinflammation	Lecturer	1.5	Graduate
Fall 2014	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2014	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2013	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2013	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2012	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2012	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2012	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2012	OCNS 5401	Current Topics in Neuroscience	Lecturer	2	Graduate
Spring 2012	BMSC 6101	GPIBS Neurobiology Module	Lecturer	1.5	Graduate
Spring 2012	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2011	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2011		GPIBS Journal Club	Faculty Moderator		Graduate
Fall 2011	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2011	OCNS 5401	Current Topics in Neuroscience	Classroom Instructor	5	Graduate

Year(s) of Instruction	Course ID	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
Fall 2010	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2010	OCNS 6503	Neurobiology of Disease	Classroom Instructor	10	Graduate
Fall 2010	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Fall 2010	OCNS 5411	Neuroscience Methods	Lecturer	1.5	Graduate
Spring 2010	OCNS 5401	Current Topics in Neuroscience	Classroom Instructor	5	Graduate
Spring 2010	BMSC 6101	GPIBS Neurobiology Module	Lecturer	1.5	Graduate
Spring 2010	CELL 6321	Mol and Cell Aspects of Vision	Lecturer	1.5	Graduate
Fall 2009	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2009	OCNS 5401	Current Topics in Neuroscience	Classroom Instructor	5	Graduate
Spring 2009	CELL 6321	Molecular and Cellular Aspects of Vision	Lecturer	1.5	Graduate
Fall 2008	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Spring 2008	OCNS 5401	Current Topics in Neuroscience	Classroom Instructor	5	Graduate
Fall 2007	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2007	oc 5411	Survey of Neuroscience Methods	Lecturer	2	Graduate
Fall 2006	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2006	OCNS 5411	Neuroscience Methods	Lecturer	2	Graduate
Fall 2005	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Spring 2005	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Fall 2004	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate
Spring 2004	CELL 5960	Current Topics in Cell Biology	Classroom Instructor	15	Graduate

Teaching and Course Instruction – Institutions Outside of OUHSC/SCM

Year(s) of Instruction	Institution / Location	Course/Lecture Title	Role	Avg. Contact Hrs/Year	Primary Learner Audience
2000	University of Kansas	Mammalian Physiology Laboratory	Graduate Teaching Assistant	60	Graduate
1997 - 2000	University of Kansas	Human Physiology Correspondence Course	Course Director/Instructor	5	Undergraduate/Graduate
1996 - 1998	University of Kansas	Neuroanatomy	Graduate Teaching Assistant	30	Graduate
1995 - 1998	University of Kansas	Mammalian Physiology Laboratory	Graduate Teaching Assistant	60	Graduate
1994	University of Kansas	Introduction to Biology Laboratory	Graduate Teaching Assistant	20	Graduate

Graduate Medical Education (GME) Instruction Delivered

Date	Course Name or Session Topic	Role	Number of Instruction Hours	Primary Learner Audience	Sponsoring Department or Organization
February 2022	Lecture: Glaucoma: Basic Mechanisms and Current Research	Lecturer	1 hr(s)	Residents	Ophthalmology
2019	Lecture: Basic Science Lecture: Electroretinography	Lecturer	1 hr(s) Semester	Residents	Ophthalmology
2015	Lecture: Basic Science Lecture: Glaucoma	Lecturer	1 hr(s) Semester	Residents	Ophthalmology
2014	Lecture: Basic Science Lecture: Electroretinography	Lecturer	1 hr(s) Semester	Residents	Ophthalmology
2013	Lecture: Basic Science Lecture: Glaucoma	Lecturer	1 hr(s) Semester	Residents	Ophthalmology

Graduate or Research Oversight Committee Membership

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2025 - Present	Diana Dale	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Chair	Diana recently joined the laboratory and is preparing for her general examinations.
2024 - Present	Jennifer Ballheim	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Chair	Jennifer recently received a competitive travel award to attend the 2025 ISER/BrightFocus Glaucoma Symposium in October 2025
2024 - Present	Alyssa Wheeler	Doctoral Student, Biochemistry and Physiology, University of Oklahoma Health Sciences Center	Doctoral Advisory Committee Member	
2024 - Present	Anna Niebauer	Doctoral Student, Institute of Human Anatomy and Embryology, University of Regensburg	Doctoral Advisory Committee Member - Serving as external member of Anna Niebauer's dissertation committee, University of Regensburg.	
2024 - Present	Kaitlyn Hill	Doctoral Student, Biochemistry and Physiology, University of Oklahoma Health Sciences Center	Doctoral Advisory Committee Member	
2024 - Present	Nikki Kirby	Doctoral Student, Biochemistry and Physiology, University of Oklahoma Health Sciences Center	Doctoral Advisory Committee Member	
2023 - Present	Jillian Cox	Doctoral Student, Neuroscience	Doctoral Advisory Committee Member	
2023 - Present	Katarynza Cizio	Doctoral Student, Neuroscience	Doctoral Advisory Committee Member	
2022 - Present	Olawale Bankole	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Chair	
2023 - 2026	Gertrude Kyere-Davies	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Member	
2024 - 2025	Riley Van Trease	Doctoral Student, Neuroscience, University of Oklahoma Health Sciences Center	Master's Advisory Committee Member	

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2023 - 2025	Leiming Xu	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Chair - NOTE: This is a student of Dr. Ma so I am listed as the OUHSC Committee Chair but Dr. Ma is the direct mentor.	
2024	Shelby Sanders	Doctoral Student, Biochemistry & Physiology	Doctoral Advisory Committee Chair	
2020 - 2024	Kyla Buettner	Doctoral Student, Physiology	Doctoral Advisory Committee Member	
2020 - 2024	Manali Kamath	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	
2020 - 2022	Jordan Delfavero	Doctoral Student, Physiology	Doctoral Advisory Committee Member	
2020 - 2022	Xiang Ma	Doctoral Student, Physiology	Doctoral Advisory Committee Member	
2020 - 2022	Bridget Parrish	Doctoral Student, Cell Biology	Master's Advisory Committee Member	Completed Master's 2022
2019 - 2022	Eric Enyong	Doctoral Student, Physiology	Doctoral Advisory Committee Chair	Eric successfully defended his dissertation in June 2022
2019 - 2022	Sarah Ocanas	Doctoral Student, Physiology	Doctoral Advisory Committee Member	Completed PhD 2022/now a member of OMRF
2018 - 2022	Harminder Singh	Doctoral Student, Physiology	Doctoral Advisory Committee Member	completed PhD 2022
2018 - 2022	Wenjing Wu	Doctoral Student, Physiology	Doctoral Advisory Committee Member	Completed PhD in 2022
2017 - 2021	Erin Livingston	Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in 2021
2017 - 2021	Micaela Montgomery	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in 2021
2017 - 2020	Mursalin Huzzatul	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in 2020
2012 - 2018	Alaina Reagan	Doctoral Student, Graduate College, Oklahoma Center for Neuroscience	Doctoral Advisory Committee Chair	Dr. Reagan recently completed her PhD in the Elliott laboratory and successfully defended her dissertation entitled, "Caveolin-1 regulates smooth muscle contractility in aging and retinal injury." Alaina has published 6 peer-reviewed publications and is currently a postdoctoral fellow in the laboratory of Dr. Gareth Howell at The Jackson Laboratory, Bar Harbor, ME.
2013 - 2017	Henry Shin	Doctoral Student, Physiology	Doctoral Advisory Committee Member	PhD granted in January 2017
2012 - 2017	Chandra Kroll	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in 2017
2012 - 2017	Chao Huang	Doctoral Student, Physiology	Doctoral Advisory Committee Member	Completed PhD in December 2016
2012 - 2017	Hem Gurung	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in April 2017

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2013 - 2016	Ryan Kelley	Doctoral Student, Cell Biology	Doctoral Advisory Committee Member	PhD granted January 2016
2012 - 2016	Madhu Parkunan	Doctoral Student, Microbiology and Immunology	Doctoral Advisory Committee Member	PhD granted in April 2016
2012 - 2016	Mei Du	Doctoral Student, Physiology	Doctoral Advisory Committee Member	PhD granted January 2016
2012 - 2016	Qian Chen	Doctoral Student, Physiology	Doctoral Advisory Committee Member	PhD granted in April 2016
2013 - 2015	Mandy Lambros	Master's Student, Cell Biology	Master's Advisory Committee Member	MS granted November 2015
2011 - 2014	Xiaowu Gu	Doctoral Student, Oklahoma Center for Neuroscience	Doctoral Advisory Committee Chair	Xiaowu Gu received his PhD in Neuroscience from his work in the Elliott lab and successfully defended his dissertation entitled, "Caveolin-1 and the Blood Retinal Barrier". He authored or co-authored 11 papers from his work in the Elliott laboratory. He did a short postdoctoral fellowship at Johns Hopkins University in the laboratory of Dr. Jeremy Nathans and is currently a postdoctoral fellow at UT Southwestern Medical Center in the laboratory of Dr. Ondine Cleaver.

Mentoring and Advising

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2024 - Present	Anthony Hui	Medical Student, College of Medicine	Mentor	
2023 - 2024	Scott Garrett	Medical Student, College of Medicine	Mentor	
2016 - 2022	Jami Gurley, PhD	Postgraduate Fellow, Ophthalmology	Postdoctoral Research Supervision	Dr. Gurley completed her postdoctoral fellowship, received an American Heart Association Career Development Award and PHF seed grant and is now an independent faculty member in the OUHSC Dept of Ophthalmology in the College of Medicine
2020 - 2021	Brian Milman, MD	Clinical Assistant Professor, Department of Emergency Medicine - College of Medicine-Tulsa, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2020 - 2021	James Furr, MD	Assistant Professor, Department of Urology - College of Medicine, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2020 - 2021	Ryan Kennedy, MD	Assistant Professor, Department of Surgery - College of Medicine, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2019 - 2020	Changjie Cai, PhD	Assistant Professor, Occupational and Environmental Health/College of Public Health, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2019 - 2020	Chao Xu, PhD	Assistant Professor, Biostatistics and Epidemiology/College of Public Health, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2018 - 2020	Jadith Ziegler, PhD	Postgraduate Fellow, Ophthalmology/Medicine	Mentor - Mentor of postdoctoral fellow	Dr. Ziegler began in laboratory in mid-June 2018 and was recently awarded a position on the NEI T32 Training grant. She is continuing to develop her research project.
2016 - 2019	Lily Wong, PhD	Junior Faculty, Ophthalmology	Mentor	Dr. Wong assisted with the development of a project that was recently funded by the Oklahoma Center for Adult Stem Cell Research (OCASCR)
2018	Dante Melendez	Assistant Professor, Internal Medicine, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2018	Jun Wang, PhD	Assistant Professor, Occupational and Environmental Health, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project. Dr. Elliott will also join the PhD Thesis committee of one of Dr. Wang's PhD students, Jacob Bartels so this mentorship will continue beyond the FLP program.
2018	Sixia Chen, PhD	Assistant Professor, Biostatistics and Epidemiology, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project. I am continuing to mentor Dr. Chen as he works to apply his imputation algorithms to vision research projects.
2018	Michelle Zalles	Graduate Student, Graduate College, Oklahoma Center for Neuroscience	Mentor - Rotation student in Elliott laboratory	Co-authored publication from her rotation work in the Elliott laboratory. She is now a PhD student in the laboratory of Dr. Rheal Towner at OMRF.

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2016 - 2017	Brian Cross, MD	Assistant Professor, Urologic Oncology, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2016 - 2017	Matthew Reinersman, MD	Assistant Professor, Surgery/Medicine	Mentor - Research Project Development for Scholarship-In-Progress Research project for Faculty Leadership Program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2016 - 2017	Sanjay Patel	Assistant Professor, Department of Surgery, Faculty Leadership Program	Mentor - Research Project Development for Scholarship-In-Progress project for Faculty leadership program	Successfully completed the Faculty Leadership Program including presentation of Scholarship-In-Progress Research project.
2016	Sijalu Paudel	Undergraduate Student, Research Advisor, SURE Program	Mentor	Sijalu's work in the Elliott lab as part of her SURE program fellowship resulted in a recent co-authored publication in the peer-reviewed journal <i>Neurobiology of Aging</i> .
2014 - 2015	Okhil Nag	Postdoctoral Fellow	Mentor	After a brief postdoctoral fellowship in the Elliott lab, Dr. Nag took a position at the US Naval Research Laboratory.
2013 - 2014	Gina Griffith, PhD	Postgraduate Fellow, Ophthalmology/Medicine	Mentor	Dr. Griffith did a short postdoctoral fellowship in the Elliott lab. She co-authored one publication and presented her work at a national meeting. She joined the US Army and is currently a Lead Research Microbiologist for the 20th Chemical, Biological, Radiological, Nuclear and Explosives (CBRNE) Command in Washington, DC.
2013	Coltan Scrivner	Undergraduate Student	Mentor - Summer research project	Coltan worked on a summer research project and is currently a PhD student at the University of Chicago.
2013	Raghavi Sudharsan, PhD	Clinical Sciences and Advanced Medicine, University of Pennsylvania	Mentor	Raghavi visited the Elliott laboratory at OUHSC from the Aguirre/Beltran laboratories at UPenn to learn a technique to prepare photoreceptor membranes. She subsequently applied this technique to canine models of retinal degeneration. This work resulted in a co-authored publication.
2012	Allen Yen	Undergraduate Student	Mentor - Summer research project	Research experience completed. Co-authored publication from his work in the laboratory.

Date	Mentee Name	Mentee Level/Program	Role/Involvement Type	Mentorship Outcomes
2012	Matthew Caleb Marlin	Doctoral Student	Mentor - GPiBS Rotation Student	Caleb completed his PhD in the laboratory of Guangpu Li and is currently the Assistant Director of GPiBS.
2012	Serena Jafer	Undergraduate Student	Mentor - Summer research project	Research experience completed.
2011 - 2012	Timothy Boyce	Medical Student	Mentor - Mentor prior to summer research during medical school	Dr. Boyce was a medical student researcher in the Elliott laboratory where he co-authored 2 publications. He completed his medical training at OUHSC and moved on to Ophthalmology residency at the Casey Eye Institute at the Oregon Health Science University.
2011 - 2012	Illya Sluch, MD	Medical Student, Ophthalmology/Medicine	Mentor - Mentor of medical student research project	Recently completed Ophthalmology residency.
2012	Matthew Caleb Marlin	GPiBS Rotation Student	Mentor	
2011	Alaina Reagan	GPiBS Rotation Student	Mentor	
2011	Henna Iqbal	Volunteer in lab prior to beginning GPiBS	Mentor	Completed research experience. Went on to PhD program in GPiBS.
2010 - 2011	Xiaoman Li, PhD	Postgraduate Fellow, Ophthalmology/Medicine	Mentor	Dr. Li was fellow in the Elliott lab where she authored/co-authored 3 publications in peer reviewed journals.
2011	Anja Bastian	GPiBS Rotation Student	Mentor	Rotation in the Elliott lab. Anja received her PhD from the Department of Physiology at OUHSC in the laboratory of Mike Ihnat and she then moved to industry.
2009	Matthew Flood	Medical Student	Mentor - Mentor, summer research project	Completed research experience.
2008	Jacinda Nuttle	Undergraduate Student	Mentor - Faculty mentor, INBRE Program	Completed research experience.
2005	S. Brandon Hancock	Medical Student	Mentor - Research advisor, PHF Honors Program project	Brandon worked briefly in the Elliott laboratory before entering medical school at OUHSC. After receiving his MD, he trained in an interventional radiology fellowship at Johns Hopkins University.
2003	Deidre Carroll	Undergraduate Student	Mentor - Research advisor, Langston University Summer Research Program	Completed research experience.
2002	Trent Tadlock	Undergraduate Student	Mentor - Research advisor, SURE Program	Completed research experience.

ORGANIZATIONAL SERVICE

Organizational Administration and Leadership

Campus/University

Executive Advisory Committee member, National Eye Institute (NEI) T32 Vision Training Grant, Department of Ophthalmology, June 2021 - Present

Representative, Federal Demonstration Partnership, University of Oklahoma Health Sciences Center, May 2020 - Present

Module Director, National Eye Institute (NEI) P30 Vision Core, Department of Ophthalmology, July 2016 - Present

Peer Mentor, Faculty Leadership Program, Office of the of the Vice Provost Academic Affairs and Faculty Development, 2016 - 2026

Course Director, Neuroscience Journal Club, Neuroscience Program, 2023 - 2025

Chair, Harold Hamm Diabetes Center Research Grant Committee, Harold Hamm Diabetes Center, July 2018 - 2021

Member, OCNS Member, Oklahoma Center for Neuroscience, 2016 - 2021

Course Director, Neurobiology of Disease - OCNS 6503, Oklahoma Center for Neuroscience, 2010 - 2020

Course Director, Neuroscience Journal Club - OCNS 6001, Oklahoma Center for Neuroscience, 2018

Coordinator, Vision Club Seminar Series, Department of Ophthalmology, 2011 - 2014

Judge, GREAT Symposium poster/oral presentations, 2011 - 2012

Presenter, OCNS Neuronight, Oklahoma Center for Neuroscience - University of Oklahoma Health Sciences Center, 2011 - 2012

Judge, OU Vision Graduate Student/Postdoctoral Fellow Symposium, University of Oklahoma Health Sciences Center, 2009 - 2012

Organizer, DMEI Dedication Research Symposium, Department of Ophthalmology, University of Oklahoma Health Sciences Center, 2011

Course Coordinator, Current Topics in Neuroscience - OCNS 5401, Oklahoma Center for Neuroscience, 2008 - 2011

Poster judge, Oklahoma Center for Neuroscience Symposium (OCNS), Oklahoma Center for Neuroscience, 2005 - 2009

College

Course Director, Angiogenesis and Lymphangiogenesis GPIBS selective, Department of Physiology, 2018 - Present

Course Coordinator, Current Topics in Cell Biology/CELL 5960, Cell Biology, 2004 - 2016

Division/Section

Moderator, Research Retreat, Harold Hamm Diabetes Center, 2012

Organizational Committee Service

Campus/University

Member, Animal Program Advisory Committee (APAC), Office of the Vice President for Research and Partnerships/OUHC, September 9, 2025 - Present

Reviewer, PHF Clinical and Translational Grant Award (CTGA) Review Panel, Presbyterian Health Foundation (PHF), August 2026

Reviewer, PHF Seed Grant Review Panel, Presbyterian Health Foundation (PHF), 2025

Reviewer, PHF Bridge Grant Review Panel, Presbyterian Health Foundation (PHF), 2024

Reviewer, PHF Clinical and Translational Grant Award (CTGA) Review Panel, Presbyterian Health Foundation (PHF), 2024

Reviewer, PHF Symposia and Research Support Grant Review Panel, Presbyterian Health Foundation (PHF), 2024

Member, Harold Hamm Diabetes Center Deputy Director Search Committee, Harold Hamm Diabetes Center, December 2023 - 2024

Reviewer, PHF Equipment and Symposia Grant Review Panel, Presbyterian Health Foundation (PHF), 2023

Chair, Ethics in Research Investigation Committee, Office of Research Integrity/OUHSC, December 2021 - August 2022

Reviewer, PHF Clinician-Scientist Grant Review Panel, Presbyterian Health Foundation (PHF), 2021

Reviewer, PHF Team Science Grant Review Panel, Presbyterian Health Foundation (PHF), 2021

Reviewer, Presbyterian Health Foundation (PHF) Grant Review Panel, Presbyterian Health Foundation, 2020

Reviewer, PHF Equipment Grant Review Panel, Presbyterian Health Foundation (PHF), 2019

Reviewer, Seed Grant Review Panel, Presbyterian Health Foundation (PHF), 2019

Reviewer, Team Science Grant Review Panel, Presbyterian Health Foundation (PHF), 2019

Reviewer, The University of Oklahoma Institute for Biomedical Engineering, Science, and Technology (IBEST) Collaborative Seed Grant Review Committee, University of Oklahoma Health Sciences Center, 2017 - 2018

Member, OUHSC Institutional Animal Care and Use Committee (IACUC), University of Oklahoma Health Sciences Center, 2013 - 2017

Member, Research Strategic Planning Committee RSP Goal 1 Subcommittee, University of Oklahoma Health Sciences Center, March 2016 - April 2017

Reviewer, Seed Grant Review Panel, Presbyterian Health Foundation (PHF), 2016

Member, College of Medicine Dean's Assistant Professor Advisory Group, University of Oklahoma Health Sciences Center, College of Medicine, 2011 - 2016

Member, Rodent Oversight Committee (ROC), University of Oklahoma Health Sciences Center, 2010 - 2016

Member, Ad Hoc Committee on For-Profit Entities using OUHSC Facilities, University of Oklahoma Health Sciences Center, 2015

Member, OCNS Executive Committee, Oklahoma Center for Neuroscience- OUHSC, 2013 - 2014

Member, Ad hoc Committee to evaluate guidelines for Promotion and Tenure, Department of Ophthalmology, 2007

Judge, Graduate Research Education And Technology (GREAT) poster/oral presentations, Graduate College, 2003

College

Member, Post-Tenure Review Committee, College of Medicine, August 2026 - Present

Member, Ad hoc Committee on Responsible Conduct of Research Training, Graduate College, 2013 - 2014

Grant Reviewer, College of Medicine Alumni Association Grant Review Committee, College of Medicine, 2012

Grant Reviewer, College of Medicine Alumni Association Grant Review Committee, College of Medicine, 2010

Department

Member, Graduate Education Committee, Biochemistry & Physiology/College of Medicine, August 2025 - Present

Chair, Faculty Advisory Committee, Biochemistry & Physiology, January 1, 2024 - Present

Member, Professionalism Task Force, Ophthalmology/Dean McGee Eye Institute, November 2023 - 2025

Member, Graduate Education Committee, Department of Physiology, 2020 - 2023

Member, OCNS Admissions Committee, Oklahoma Center for Neuroscience, 2010 - 2021

Member, Graduate Education Committee, Oklahoma Center for Neuroscience, 2013 - 2020

Member, Dean A. McGee Eye Institute Institutional Animal Care and Use Committee, Ophthalmology/Dean McGee Eye Institute, 2004 - 2014

Member, Graduate Student Symposium Committee, Department of Ophthalmology, 2009 - 2010

PROFESSIONAL SERVICE

National/International

Member, Pennsylvania Lions Sight Conservation & Eye Research Foundation, 2014 - Present

Member, NIH Pathophysiology of Eye Disease 1 - PED1 Study Section, National Institutes of Health (NIH), July 1, 2026 - June 30, 2030

Reviewer, Ad-Hoc, CSR ZRG1 NV-F (90) Special Emphasis Panel - Topics in pathophysiology, imaging, and therapeutic strategies for eye diseases, National Institutes of Health (NIH), April 2026

Reviewer, Ad-Hoc, NIH Fellowships: Cell Biology, Developmental Biology, and Bioengineering - F05-D Study Section, National Institutes of Health (NIH), September 2025 - January 2026

Reviewer, Ad-Hoc, NIH Pathophysiology of Eye Disease 1 - PED1 Study Section, National Institutes of Health (NIH), April 2025 - June 10, 2025

Reviewer, CDMRP/Vision Research Program Investigator-Initiated Research Award-1 (VRP IIR-1) panel, Department of Defense Health Program/Congressionally Directed Medical Research Programs, November 2024 - January 2025

Member, American Diabetes Association Research Grant Review Committee (RGRC), American Diabetes Association, 2016 - 2022

Moderator, Trabecular Meshwork Meeting, Trabecular Meshwork Society, February 9, 2022

Reviewer, Ad-Hoc, NIH Pathophysiology of Eye Disease 1 - PED1 Study Section, National Institutes of Health (NIH), August 27, 2021 - October 29, 2021

Mentor, ARVO Global Mentorship Program, Association for Research in Vision and Ophthalmology, August 2020 - July 2021

Reviewer, Foundation Fighting Blindness Individual Investigator Research Grant (IIRG) Review Committee, 2019

Reviewer, Foundation Fighting Blindness Individual Investigator Research Grant (IIRG) Review Committee (Ad Hoc), 2018

Immediate Past Chair, Members-in-Training Committee, Association for Research in Vision and Ophthalmology (ARVO), 2017 - 2018

Judge, ARVO Members-in-Training (MIT) Outstanding Poster, Association for Research in Vision and Ophthalmology (ARVO), 2012 - 2018

Moderator, XVIIIth International Symposium on Retinal Degeneration, Killarney, Ireland, September 5, 2018

Reviewer, Rehabilitation Research & Development Service (RR&D)(2017/10 RRD3) Merit Review Scientific Proposals in Sensory Systems and Communication Disorders, Department of Veterans Affairs, 2017

Chair, Members-in-Training Committee, Association for Research in Vision and Ophthalmology (ARVO), 2015 - 2017

Member, Membership Committee, International Society for Eye Research (ISER), 2011 - 2016

Moderator, Ethical Publication of Scientific Data, Figures, and Illustrations: Enhancement and Beautification versus Misrepresentation and Fabrication Workshop, Association for Research in Vision and Ophthalmology (ARVO), 2015

Reviewer, Nebraska Research initiative Proposal Review Panel, 2015

Moderator, Poster Session: "Diabetic Retinopathy", Association for Research in Vision and Ophthalmology (ARVO), 2015

Reviewer, Research Competitiveness Program/Connecticut Bioscience Innovation Fund (CBIF), American Association for the Advancement of Science (AAAS), 2015

Reviewer, Agence Nationale de la Recherche (ANR) Work Programme Review, 2010 - 2015

Member, Members-in-Training Committee, Association for Research in Vision and Ophthalmology (ARVO), April 2011 - May 2015

Member, Andre A. Balazs Prize Selection Committee, International Society for Eye Research (ISER), 2014

Moderator, Authorship Ethics: Credit and Credibility Workshop, Association for Research in Vision and Ophthalmology (ARVO), 2014

Member, Content Working Group, Association for Research in Vision and Ophthalmology (ARVO), 2013 - 2014

Member, Communications Committee, International Society for Eye Research (ISER), 2012 - 2014

Reviewer, Ad-Hoc, American Diabetes Association, 2013

Moderator, Diabetic Retinopathy and Vascular Biology II Poster Session, Association for Research in Vision and Ophthalmology (ARVO), 2013

Moderator, Retina: Cell Biology and Disease Poster Session, Association for Research in Vision and Ophthalmology (ARVO), 2011

Moderator, Oxidative Injury and Protection Poster Session, Association for Research in Vision and Ophthalmology (ARVO), 2010

Local/Regional

Member, Oklahoma City Veterans Administration Subcommittee on Research Safety (OKCVA SRS), Oklahoma City Veterans Administration (OKCVA), Oklahoma City, OK, United States, October 2022 - Present

Reviewer, OK-INBRE Grant Review Panel, OK-IDeA Networks of Biomedical Research Excellence (INBRE), OK, 2017 - 2024

Editor, Editorial Board, Journal Reviewer

Editorial Board Member, Cell Growth and Division, 2021 - Present

Editorial Board Member, Translational Vision Science & Technology, 2021 - Present

Editorial Board Member, Molecular Vision, 2013 - Present

Editor, Guest, Proceedings of the National Academy of Sciences of the United States of America, 2025

Ad-Hoc Reviewer:

ACS Biomaterials Science & Engineering	
Aging Cell	
American Journal of Pathology	
American Journal of Physiology-Heart and Circulatory Physiology	
BBA, Molecular Basis of Disease	
Cell and Tissue Research	
Cell Biology International	
Cell Calcium	
Circulation Research	
Clinical and Experimental Ophthalmology	
Communications Biology	
Current Eye Research	
Diabetes	
Diabetologia	
eLIFE	
Experimental Cell Research	
Experimental Eye Research	
Frontiers in Cell and Developmental Biology	
Frontiers in Neuroscience	
GLIA	
Investigative Ophthalmology and Visual Science	
iScience	
JCI Insight	
Journal of Cellular and Molecular Medicine	
Journal of Neurochemistry	
Journal of Neuroinflammation	
Journal of Ocular Pharmacology and Therapeutics	
Journal of Ophthalmology	
Journal of the American Heart Association	
Microvascular Research	
Molecular and Cellular Endocrinology	
Molecular Medicine	
Molecular Vision	
Ophthalmic Research	
PLoS One	
Progress in Retina and Eye Research	
Scientific Reports	
Theranostics	
Translational Vision Science & Technology	
iScience	2025 - Present
STAR Protocols	2025 - Present
Communications Biology	2024 - Present
Microvascular Research	2024 - Present

PERSONAL COMMUNITY SERVICE

Advisor, Oklahoma City Chapter of Foundation Fighting Blindness, Foundation Fighting Blindness, 2024 - Present

Member, Edmond Oklahoma Public Schools Research Institutional Review Board for Advanced Placement-Research Projects, Edmond, OK, 2017 - Present

Judge, Rosary School Science Fair, Rosary Catholic School, Oklahoma City, OK, 2015 - Present

Speaker, OCNS Neuronight Presenter, Oklahoma Center for Neuroscience, Oklahoma City, OK, 2011 - 2012

MEDIA CONTRIBUTIONS

Regional/Local

Interviewed Expert, NewsOK.com Oklahoman, OCAST program innovative eye research, <https://oklahoman.com/article/5651629/ocast-program-seeds-innovative-eye-research>, January 7, 2020

PROFESSIONAL MEMBERSHIPS

North American Vascular Biology Organization	2012 - Present
The American Society for Biochemistry and Molecular Biology	2012 - Present
International Society for Eye Research	2006 - Present
Association of Research in Vision and Ophthalmology (ARVO)	1997 - Present
American Diabetes Association (ADA)	2012 - 2024

PROFESSIONAL GROWTH AND DEVELOPMENT

Seminars, Workshops, and Other Training

Faculty Leadership Program Training Course, OUHSC, Oklahoma City, OK, 2007 - 2008