

Thomas A. Mendel, M.D., Ph.D., Assistant Professor, Department of Ophthalmology & Visual Sciences,
The Ohio State University Wexner Medical Center | Havener Eye Institute
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Education and Training:

8/2021 – 12/2021	University of Michigan, Ann Arbor, MI	Pediatric Retina Fellowship
7/2019 – 7/2021	Cole Eye Institute – Cleveland Clinic, Cleveland, OH	Vitreoretinal Surgery Fellowship
7/2016 – 6/2019	Vanderbilt Eye Institute, Nashville, TN	Ophthalmology Residency
7/2015 – 6/2016	University of Virginia, Charlottesville, VA	General Surgery Internship
8/2006 – 5/2015	University of Virginia, Charlottesville, VA	M.D., Ph.D. Experimental Pathology
8/2002 – 5/2006	Duke University, Durham, NC	B.S. Economics
8/1998 – 6/2002	Thomas Jefferson High School for Science and Technology, Alexandria, VA	

Licensure:

5/4/2020 – 7/1/2024	Ohio Medical License – 35.135576
5/17/2024 – 5/17/2024	Michigan Medical License – 4301504710

Work and Experience:

Academic Appointments

8/2/2021 – Assistant Professor of Ophthalmology – The Ohio State University – Clinician scientist pediatric and adult retinal surgeon

Grants:

1. Knights Templar Career Starter Grant – 2022 – 2023 – Gene Therapy for Pediatric Retinopathy from Batten Disease
2. NIH R01 EY022063-01 – 2012 – 2016 – As a PhD student, contributed majority of data and assisted in writing grant to investigate adipose-derived stem cells application in the treatment of diabetic retinopathy, awarded to Shayn Peirce-Cottler, PhD and Paul Yates, MD PhD, at the University of Virginia.
3. NIH MSTP Training Grant (NIH T32GM007267) – 2013 – 2014
4. UVA Biotechnology Training Program (NIH T32 GM08715) – 2011 – 2013

Honors and Awards:

1. ARVO Travel Grant – OCTA project for diabetic intraretinal microvascular abnormalities presentation at annual meeting. 2020.
2. The Lefkovitz Award for Vision Research – won competitive grant application for project entitled: *Use of Optical Coherence Tomography Angiography to Guide Evaluation and Treatment of Patients with Birdshot Chorioretinopathy*. 2018.
3. Representative to American Academy of Ophthalmology Mid-Year Forum in Washington D.C. – selected to represent residency as Advocacy Ambassador. 2017.
4. University of Virginia LaunchPad Grant (translational diabetes research) – 2009 – 2012
5. Richmond Eye and Ear Foundation – 2009 – 2010
6. Phi Eta Sigma – National Honor Fraternity – 2003

Memberships in Professional Societies:

1. American Medical Association
2. American Academy of Ophthalmology
3. Association for Research in Vision and Ophthalmology
4. American Society for Retina Specialists

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Seminars, Visiting Professorships, and Extramural Invited Presentation:

Extramural Invited Presentations

Retina Society: Annual Meeting

Paper Presentation – Case Series: Widefield Retinal Imaging Characteristics of Biopsy Proven Sarcoid Associated Uveitis. 2020.

American Society of Retina Specialists: Annual Meeting

Paper Presentation – *Swept Source Optical Coherence Tomography Angiography Analysis of Intraretinal Microvascular Abnormalities*. 2020.

Case Presentation – *Frosty Inflammation* – Massive retinal sheathing and angiitis in 35-week pregnant woman. 2020.

Association for Research in Vision and Ophthalmology: Annual Meeting

Paper Presentation – *Intraretinal Microvascular Abnormality Analysis with Swept Source Optical Coherence Tomography* 2020.

Paper Presentation – *Prospective Retinal and Optic Nerve Vitrectomy Evaluation (PROVE) Study: Five-Year Findings*. 2018.

Poster – *Adipose derived stem cell therapeutic potential for treatment of diabetic retinopathy is modulated by both oxygen tension and diabetic status of donor cells*. 2014.

Poster – *Human Adipose Stem Cell Derived Pericytes Protect Against Retinal Vasculopathy in vivo*. 2013.

Poster – *Cross Polarization Kit to Enhance Slit Lamp Fundoscopy*. 2013.

Poster – *Ethambutol Toxicity Presenting as Reversible Bitemporal Hemianopia in Patients Being Treated for Mycobacterium Avium Complex*. 2009.

Other Speaking Engagements

Zooming in on the Retina: Retina Fellows Forum – American Society of Retina Specialists

Case Presentation – *Cole Eye Strong* – complex subretinal clot/detachment case (4/29/2020).

Case Presentation – *Unrelenting Inflammation* – complex ARN detachment case (10/7/2020).

Southeastern Vision Research Conference

Poster – Prospective Retinal and Optic Nerve Vitrectomy Evaluation (PROVE) Study: Five-Year Findings. Southeastern Vision Research Conference. 12-11-2018. Birmingham, AL.

TEDx Talk: *Beating Blindness with Belly Fat*. Thomas Jefferson High School for Science and Technology, Alexandria, VA. 4/25/14. Available at <http://www.youtube.com/watch?v=pDYQbRzGZoY>.

Humphries Symposium, Department of Ophthalmology, University of Virginia.

“Treatment of Diabetic Retinopathy with Adipose-Derived Stem Cells” 10/12/13

Selected as the representative of the University’s Biomedical Research to speak at Teresa Sullivan’s Inaugural Dinner as she became the University of Virginia’s eighth President. 2011.

Patent and Disclosure:

1. Composition and Methods for Treating Retinopathy. 15/126,460
2. Systems and Methods for Ocular Fundus Examination Reflection Reduction. 13/699,972

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Bibliography:

Peer reviewed

Breazzano MP, Nair AA, Arevalo JF, Barakat MR Berrocal AM Chang JS, Chen A, Elliott D, Garg SJ, Ghadiali Q, Gong D, Grewal DS, Handa JT, Henderson M, Leiderman YI, Leng T, Mannina A, **Mendel TA**, Mustafi D, Olmos de Koo LC, Patel SN, Patel TP, Prenner J, Richards P, Singh, RP, Wykoff CC, Yannuzzi NA, Yu H, Modi YS, Chang S. Frequency of Urgent or Emergent Vitreoretinal Surgical Procedures in the United States During the COVID-19 Pandemic. *JAMA Ophthalmol*. Published online March 04, 2021.
doi:10.1001/jamaophthalmol.2021.0036

Talcott K, Rachitskaya A, Yuan A, Sood A, **Mendel T**, Arepalli S, Milam R, Singh R. Optimizing Visualization of Membranes in Macular Surgery with Heads-Up Display. *Ophthalmic Surg Lasers Imaging Retina*. 2020 Oct 1;51(10):584-587.

Radetic M, Khan S, **Mendel T**, Venkat A, Phelan M. Tattoo granuloma with uveitis (TAGU) without sarcoidosis. *Am J Emerg Med*. 2020 Nov;38(11):2489.e3-2489.e5. doi: 10.1016/j.ajem.2020.05.106. Epub 2020 Jun 2.

Jonna G, Thompson IA, **Mendel TA**, Kim SJ. Five-Year Functional Outcomes after Epiretinal Membrane Surgery: A Prospective, Controlled Study. *Retina* 00:1–6, (2018).

Mendel TA, Fleischman D, Allingham R, Tseng H, Chesnutt D. Spectrum and Clinical Course of Visual Field Abnormalities in Ethambutol Toxicity. *Neuro-Ophthalmology*. Vol 40, Issue 3, (2016).

Cronk SM, **Mendel TA**, Hoehn KL, Ray HC, Walpole JB, Bruce AC, Guendel AM, Herman IM, Yates PA, Peirce SM. Adipose-derived stem cells from diabetic mice show impaired vascular stabilization in a murine model of diabetic retinopathy. *Stem Cells Translational Medicine*. 4(5):459-67, (2015).

Mendel TA, Clabough EB, Kao DS, Demidova-Rice TN, Durham JT, Zotter BC, Seaman SA, Cronk SM, Rakoczy EP, Katz AJ, Herman IM, Peirce SM, Yates PA. Pericytes Derived from Adipose-Derived Stem Cells Protect against Retinal Vasculopathy. *PLoS One*, 8(5):e65691, (2013).

Dos-Anjos Vilaboa S, Llull R, **Mendel TA**. Returning fat grafts to physiologic conditions using washing. *Plast Reconstr Surg*. Aug;132(2):323e-326, (2013).

Taylor AC, **Mendel TA**, Mason KE, Degen KE, Yates PA, Peirce SM. Attenuation of ephrinB2 reverse signaling decreases vascularized area and preretinal vascular tuft formation in the murine model of oxygen-induced retinopathy. *IOVS* 53, 5462- 5470, (2012).

Tran K, **Mendel TA**, Holbrook KL, Yates PA. Construction of an Inexpensive, Hand-Held Fundus Camera through Modification of a Consumer "Point-and-Shoot" Camera. *IOVS* 53, 7600-7607, (2012).

Non-Peer Reviewed

Mendel TA. "Floaters," invited chapter in Decision Making in Ophthalmology, book published by Elsevier. (accepted 2022).

Mendel TA, Cao JL, Rachitskaya AV. Scleral Windows for Choroidal Effusions. *Retina Specialist – Surgical Pearls*. 2020. Available <https://www.retina-specialist.com/article/scleral-windows-for-choroidal-effusions>

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Mendel TA, Ehlers JP. “Birdshot Chorioretinopathy,” invited chapter in OCT and OCT Angiography in Retinal Disorders, 1e. Wolters Kluwer. (accepted 2020)

Mendel TA, Ehlers JP. “Punctate Inner Chorioretinopathy,” invited chapter in OCT and OCT Angiography in Retinal Disorders, 1e. Wolters Kluwer. (2020)

Mendel TA, Daniels AB. Animal Models in Retinoblastoma Research. Chapter in Clinical Ophthalmic Oncology, pp.79-97, available at https://www.researchgate.net/publication/332602630_Animal_Models_in_Retinoblastoma_Research. (2019)

Mendel TA, Reddy AK, Choudhry N, Hau VS. Injection Infection (Candida Endophthalmitis Case Report). American Society of Retina Specialists. (May 2014). Available at <https://www.asrs.org/education/spotlight-case/28/injection-infection>.

Mendel TA, Reddy AK, Choudhry N, Hau VS. Why a Genetic Test Is Sometimes Worth a Shot (Birdshot Chorioretinopathy Case Report). American Society of Retina Specialists. (January 2014). Available at <http://www.asrs.org/education/spotlight-case/24/why-a-genetic-test-is-sometimes-worth-a-shot>.