

CURRICULUM VITAE

DAVID SHIEH, MD

OFFICE ADDRESSES Retina Associates of Cleveland, Inc.
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EDUCATION

College Rensselaer Polytechnic Institute
B.S. in Biology, Summa cum laude
7-year combined B.S./M.D. with Albany Medical College
Troy, NY
2012–2016

Medical School Albany Medical College
M.D., Magna cum laude
Albany, NY
2015–2019

POSTGRADUATE TRAINING

Internship Transitional
Bassett Medical Center
Cooperstown, NY
2019–2020

Residency Ophthalmology
Case Western Reserve University
Cleveland, Ohio
2020–2023
Academic Chief Resident, 2022–2023

Fellowships

Vitreoretinal Surgery
University of Texas Southwestern
Dallas, TX
2023-2025

LICENSURE AND BOARD CERTIFICATION

American Board of Ophthalmology – Board Certification – 06/2024 – current

Licensed to practice medicine in Ohio

PROFESSIONAL POSITIONS

Retina Associates of Cleveland, 2025 - Present

Private practice in vitreoretinal surgery and diseases.

Associates: Lawrence J. Singerman, MD; Michael A. Novak, MD; Scott D. Pendergast, MD; David G. Miller, MD; Joseph M. Coney, MD; Jerome P. Scharman, MD; Llewelyn J. Rao, MD; Arnold F. Nothnagel, DO; Sean M Platt, MD; Hang Pham, MD; Thomas J. Tsai, MD; Thomas P. Hull, MD; Shawn C. Wilker, MD; Ledian Goduni, MD

HONORS AND AWARDS*Residency*

Exemplary Resident Award, June 2023

Resident Research Award - PGY4 class, June 2023

Highest OKAP score - PGY4 class, June 2023

Highest OKAP score - PGY3 class, June 2022

Highest OKAP score - PGY2 class, June 2021

Medical School

Alpha Omega Alpha, Theta Chapter of New York, Junior initiate, April 2018

Albany Medical College Award for Excellence in Anatomies, May 2017

Albany Medical College Award for Excellence in Pathology, May 2017

Albany Medical College Academic Excellence, MS1 and MS2, 2016-2017

Undergraduate

Rensselaer Polytechnic Institute Dean's List, 6 semesters, 2012-2015

American Heart Association Founder's Affiliate Undergraduate Summer

Research Fellowship, 2014

RESEARCH ACTIVITIES

The role of inflammatory cytokines in the development and progression of diabetic retinopathy in VA patients

Case Western Reserve University Dept. of Ophthalmology; PI: Warren Sobol, M.D. A prospective study comparing levels of inflammatory cytokines, including IL-17A, IL-6, and CCL2 in the vitreous and serum of diabetic and nondiabetic patients. Participated in study

design, identifying eligible patients, gathering and analyzing data.
2021-2023

Evaluating the Effect of an Artificial Intelligence Algorithm on Trainee Grading of Diabetic Retinopathy in Retinal Fundus Photographs
Case Western Reserve University Dept. of Ophthalmology; PI: Warren Sobol, M.D.
Participated in grading diabetic retinopathy in fundus photographs with and without the assistance of AI predictions.
2021-2022

Adjustable vs. nonadjustable sutures: outcomes in adult strabismus surgery
Albany Medical College Dept. of Ophthalmology; PI: John W. Simon, M.D. A retrospective study comparing outcomes such as primary deviation in adults who received adjustable vs. nonadjustable suture strabismus surgery at our institution. Reviewed patient charts, determined eligibility, gathered outcome data.
2018-2019

Regulation of epicardial epithelial-to-mesenchymal transition and differentiation
Albany Medical College Dept. of Molecular and Cellular Physiology; PI: Mingfu Wu, Ph.D. Investigated the molecular mechanisms of mouse heart development in vivo, with a focus on the epicardial layer and the genesis of the epicardium-derived progenitor cells, which play a crucial role in the formation of the coronary arteries.
2015-2017

Intrinsic chirality of human aortic endothelial cells and smooth muscle cells
Rensselaer Polytechnic Institute Tissue Engineering & Morphogenesis Laboratory; PI: Leo Q. Wan, Ph.D. Studied the chirality (left/right asymmetry in cell migration) of cells cultured in vitro on micropatterned rings, with possible implications in the development of congenital heart defects such as Transposition of the Great Arteries.
2012-2014

PUBLICATIONS

1. Shieh D, Paul SK, Beckman M, Kurup SK. Diagnostic and Therapeutic Challenges. Retina. 2024 Apr 2. Online ahead of print. doi: 10.1097/IAE.0000000000004123
2. Duran M, Shieh D, Choi P, He Y, Ufret-Vincenty R. Atypical Central Serous Chorioretinopathy Masquerading as Vogt-Koyanagi-Harada Disease: A Case Report. Case Rep Ophthalmology. 2024 May 24; 15(1):448-457
3. Liu D, Kumar A, Shieh D, Bhargava S, Zabal-Ratner J, Simon JW. One-Month Postoperative Horizontal Strabismus Surgery Outcomes Using Adjustable and Nonadjustable Sutures. J Binocul Vis Ocul Motil. 2020 Jul-Sep;70(3):94-97.
4. Miao L, Li J, Li J, Lu Y, Shieh D, Mazurkiewicz JE, Barroso M, Schwarz JJ, Xin HB, Singer HA, Vincent PA, Zhong W, Radice GL, Wan LQ, Fan ZC, Huang G, Wu M. Cardiomyocyte orientation modulated by the Numb family proteins-N-cadherin axis is essential for ventricular wall morphogenesis. PNAS. 2019 Jul 30;116(31):15560-15569.

5. Miao L, Li J, Li J, Tian X, Lu Y, Hu S, Shieh D, et al. Notch signaling regulates Hey2 expression in a spatiotemporal dependent manner during cardiac morphogenesis and trabecular specification. *Sci Rep*. 2018 Feb;8(1):2678.
6. Li J, Miao L, Zhao C, Shaikh Qureshi WM, Shieh D, Guo H, et al. CDC42 is required for epicardial and pro-epicardial development by mediating FGF receptor trafficking to the plasma membrane. *Development*. 2017 May;144(9):1635–47
7. Li J, Miao L, Shieh D, Spiotto E, Li J, Zhou B, et al. Single-Cell Lineage Tracing Reveals that Oriented Cell Division Contributes to Trabecular Morphogenesis and Regional Specification. *Cell Rep*. 2016;15(1):158–70.
8. Shaikh Qureshi WM, Miao L, Shieh D, Li J, Lu Y, Hu S, et al. Imaging Cleared Embryonic and Postnatal Hearts at Single-cell Resolution. *J Vis Exp*. 2016 Oct;(116).
9. Worley KE, Shieh D, Wan LQ. Inhibition of cell–cell adhesion impairs directional epithelial migration on micropatterned surfaces. *Integr Biol*. 2015;7:580–90.

Abstracts/Posters

1. Shieh D, Moore S, Patel KG. Retinal detachment after ruptured globe. *Vit Buckle Society Surgical Rounds: Complex Retinal Detachments*, 2024.
2. Shieh D, Sobol WM, Taylor P. The role of IL-17 in the development and progression of diabetic retinopathy in VA patients. *Case Western Reserve University Vision Sciences Research Conference*, 2023.
3. Shieh D, Sobol WM, Taylor P. The role of inflammatory cytokines in the development and progression of diabetic retinopathy in VA patients. *Case Western Reserve University Vision Sciences Research Conference*, 2022.
4. Bhargava S, Shieh D, Liu D, Zabal-Ratner J, Simon JW. Adult Strabismus Surgery Outcomes with Adjustable and Nonadjustable Sutures. *AAPOS*, 2019.
5. Shieh D, Miao L, Shaikh Qureshi WM, Li J, Wu M. Novel Methods for Studying Epicardial Development. *Albany Medical College Medical Student Investigation Day*, 2016.
6. Shieh D, Jou S, Zhao C, Miao L, Shaikh Qureshi WM, Li J, Wu M. Isolation of Epicardial and Epicardial-Derived Progenitor Cells. *Albany Medical College Medical Student Investigation Day*, 2015.