

CURRICULUM VITAE
AARON NAGIEL, MD, PHD
JANUARY 10, 2025

PERSONAL INFORMATION:

Work

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EDUCATION AND PROFESSIONAL APPOINTMENTS

EDUCATION:

2004 *A.B., Biochemical Sciences summa cum laude, Harvard University, Cambridge, MA*
2010 *Ph.D., Neuroscience, The Rockefeller University, New York, NY*
2011 *M.D., Weill Cornell Medical College, New York, NY*

POST-GRADUATE TRAINING:

2011-2012 *Transitional Internship, Memorial Sloan-Kettering Cancer Center, New York, NY*
2012-2015 *Residency, Ophthalmology, Stein Eye Institute/ UCLA, Los Angeles, CA*
2015-2017 *Fellowship, Vitreoretinal Surgery, Stein Eye Institute/ UCLA, Los Angeles, CA*

ACADEMIC APPOINTMENTS:

2017-present *Assistant Professor* *Department of Ophthalmology, Keck School of Medicine, USC
Roski Eye Institute, Los Angeles, CA*

CLINICAL APPOINTMENTS:

2017-present *Director, Retina Service* *The Vision Center, Department of Surgery, Children's Hospital
Attending Ophthalmologist* *Los Angeles, Los Angeles, CA*
2018-present *Attending Ophthalmologist* *Hollywood-Presbyterian Medical Center, Los Angeles, CA*
2019-present *Attending Ophthalmologist* *LAC+USC Medical Center, Los Angeles, CA*

LICENSURE, CERTIFICATIONS

LICENSURE:

2013 *A125048, CA, Exp 3/31/2025*

BOARD CERTIFICATION:

2016 *American Board of Ophthalmology*

HONORS, AWARDS:

2001 *Detur Prize* *Harvard University, Cambridge, MA*
2001-2003 *John Harvard Scholarship* *Harvard University, Cambridge, MA*
2004 *A.B., summa cum laude* *Harvard University, Cambridge, MA*
2006 *Finalist* *Paul and Daisy Soros Fellowship for New Americans*
2013 *Christensen Research Award* *Stein Eye Institute/ UCLA, Los Angeles, CA*
2014 *ARVO NEI Travel Grant* *National Eye Institute*

2014, 2016	Excellence in Research Award	Stein Eye Institute/ UCLA, Los Angeles, CA
2014, 2015	PePOSE-Saltzman Young Investigator ARVO Award	Stein Eye Institute/ UCLA, Los Angeles, CA
2014	Heed Foundation Resident Retreat Participant	Heed Ophthalmic Foundation, San Francisco, CA
2015-2016	Heed Foundation Fellowship	Heed Ophthalmic Foundation, San Francisco, CA
2016-2019	Allergan FIRST Fellowship	Allergan Retina, Irvine, CA
2016-2017	Ronald G. Michels Fellowship	Michels Foundation
2020-2021	Ellison Award	The Leon and Carol Ellison Research Career Development Award, Saban Research Institute/CHLA
2021-2024	Career Development Award	Research to Prevent Blindness, New York, NY
2024	Secretariat Award	American Academy of Ophthalmology

TEACHING

DIDACTIC TEACHING:

USC Roski Eye Institute

2017-present	ROP and Pediatric Retina	4 hours/year	Lecturer to residents and fellows
2017-present	Retinal Imaging Conference	24 hours/year	Lead faculty moderator
2019-present	Biennial Endoscopic Vitrectomy Course	10 hours/year	Course founder and director

USC Keck School of Medicine

2022-2023	DSR 574: Stem Cell and Developmental Biology Seminar Series	4 hours	Co-Instructor for this graduate-level course
2024	BIOC 515: Logic and Design of Disease Mechanism Studies	10 hours	Gave two 1.5-hour lectures; created/graded final exam content

CME COURSES DEVELOPED

American Academy of Ophthalmology Annual Meeting

2017	Retinal Detachment Repair	1 hr	AAO Learning Lounge
2018	Endoscopic Vitrectomy	1 hr	AAO Learning Lounge

UNDERGRADUATE AND MEDICAL STUDENT (OR OTHER) MENTORSHIP:

2018	Mark Phillips	Keck School of Medicine, USC	In vitro models of retinal injury
2018-2019	Chloe Freitas	Marlborough HS	Retinal organoid quantification
2018-2020	Justin Kim	NYU Undergraduate	3D quantification of bipolar dendrites
2019-2020	Caroline Mallory	Marlborough HS	Retinal organoid quantification
2019-2020	Jacob Lifton	Keck School of Medicine, USC	Retinal outcomes of self-injurious behavior
2020-2021	Chloe Hutchens	Marlborough HS	Retinal organoid quantification
2021-2022	Ella Ferguson	Marlborough HS	Retinal organoid quantification
2021-present	Kate Matsunaga	Keck School of Medicine, USC	Bioinformatic analysis of retinal gene expression
2022	Tom Batan	Western Univ of Health Sciences	Automated detection of synaptic puncta
2022-2024	Erik Souverein	Keck School of Medicine, USC	Dean's Research Scholar: Hippo inhibition for geographic atrophy
2023-2024	Michael Chen	USC Undergraduate	Retinal synapse formation
2023-2024	Aarun Devgan	Dartmouth Undergrad	Base editing for retinal disease

2024-	<i>Maya Hayun</i>	<i>USC Undergrad</i>	Base editing for Best disease
2024-	<i>Lior Ronen</i>	<i>USC Undergrad</i>	Non-canonical Wnt signaling in retinal development

GRADUATE STUDENT MENTORSHIP:

2019-2024	<i>Rosanna Campos</i>	<i>PIBBS/DSR PhD</i>	<i>Non-canonical Wnt signaling in retinal development</i>
2024-	<i>Gengle Niu</i>	<i>PIBBS/DSR PhD</i>	<i>Genetic and functional interrogation of the human photoreceptor synapse</i>
2024-present	<i>Ryan Wisniewski</i>	<i>DSR Master's</i>	<i>Non-canonical Wnt signaling in retinal development</i>

GRADUATE STUDENT THESIS, EXAM AND DISSERTATION COMMITTEES:

2020-2024	<i>Kasey Rose</i>	<i>PhD Thesis (Chair)</i>	<i>Neuroscience Graduate Program</i>
2023-	<i>Xinyan Liang</i>	<i>PhD Thesis (Chair)</i>	<i>Neuroscience Graduate Program</i>
2024-	<i>Zachary Fouladian</i>	<i>PhD Thesis (Chair)</i>	<i>PIBBS Graduate Program</i>
2024-	<i>Ignacio Arvizu</i>	<i>PhD Thesis</i>	<i>PIBBS Graduate Program</i>

POSTGRADUATE MENTORSHIP:

2017-2019	<i>Unikora Yang, MD</i>	<i>Pediatrics Resident</i>
2018-2024	<i>Sumitha Bharathan, PhD</i>	<i>Postdoctoral Fellow</i>
2018	<i>Yong Han, MD</i>	<i>Ophthalmology Resident</i>
2018-2019	<i>Jennifer Danesh, MD</i>	<i>Ophthalmology Resident</i>
2018-2019	<i>Youning Zhang, MD</i>	<i>Ophthalmology Resident</i>
2018	<i>Arezu Haghghi, MD</i>	<i>Ophthalmology Resident</i>
2019	<i>Nicole Koulisis, MD</i>	<i>Ophthalmology Resident</i>
2020	<i>Hong-Uyen Hua, MD</i>	<i>Ophthalmology Resident</i>
2020-2021	<i>William Gange, MD</i>	<i>Ophthalmology Resident</i>
2020-2022	<i>Assaf Beck, MD</i>	<i>Postdoctoral Fellow</i>
2021-2022	<i>Jennifer Lopez, MD</i>	<i>Ophthalmology Resident</i>
2021-2022	<i>Eric Jung, MD</i>	<i>Ophthalmology Resident</i>
2022	<i>Rahul Iyengar, MD</i>	<i>Ophthalmology Resident</i>
2022-present	<i>Sushma Kalmodia, PhD</i>	<i>Postdoctoral Fellow</i>
2022-present	<i>Leila Bahmani, PhD</i>	<i>Postdoctoral Fellow</i>
2023-2024	<i>Yicheng Bao, MD</i>	<i>Ophthalmology Resident</i>
2023	<i>Andrew Clark, MD</i>	<i>Vitreoretinal Fellow</i>

PEDIATRIC RETINA CLINICAL OBSERVERS:

2018	<i>Frank Lai, MD</i>	<i>Hong Kong</i>
2018	<i>Elisa Carreras, MD</i>	<i>Spain</i>
2019-2020	<i>Talita Lima, MD</i>	<i>Brazil</i>
2022-2023	<i>Swati Agarwal, MD</i>	<i>University of Washington, Seattle, WA</i>
2023-2024	<i>Gisella Sanchez, MD</i>	<i>Argentina</i>
2023-2024	<i>Marcelo Ventura, MD</i>	<i>Brazil</i>

SERVICE

UNIVERSITY SERVICE:

2019-2023	<i>Member, Core Oversight Committee</i>	<i>The Saban Research Institute, CHLA</i>
2023-present	<i>Member, Grant Review Committee</i>	<i>The Saban Research Institute, CHLA</i>
2024-present	<i>Member, Research Council</i>	<i>Department of Surgery, CHLA</i>

PROFESSIONAL SERVICE:

2019-2023 Member, Genetic Eye Disease Task Force American Association for Pediatric Ophthalmology and Strabismus

CONSULTANTSHIPS AND ADVISORY BOARDS:

2016-2017	FIRST Advisory Board	Allergan Retina, Irvine, CA
2019-2021	Consultant	REGENXBIO, Rockville, MD
2020-2021	Consultant	Allergan Retina, Irvine, CA
2020-2021	Consultant	Biogen, Cambridge, MA
2021-	Consultant	Novartis Pharmaceuticals, UK
2022-2024	Consultant	Janssen
2022	Consultant	Atsena Therapeutics
2022-	Consultant	Eyebiotech Limited
2022-24	Consultant (IDMC member)	Lexitas
2023	Consultant	Astellas
2023	Consultant	Immuneering
2023	Consultant	Blackstone Life Sciences
2024	Consultant	Alia Therapeutics
2024-	Consultant	Blue Gen Therapeutics
2024	Consultant	Ultragenyx
2024-	Consultant	BlueRock Therapeutics
2024-	Consultant	Beacon Therapeutics
2025-	Consultant	Endogena

PROFESSIONAL SOCIETY MEMBERSHIPS:

2011-present	Association for Research in Vision and Ophthalmology
2012-present	American Academy of Ophthalmology
2015-present	Society of Heed Fellows (Elected)
2017-present	American Society of Retina Specialists
2017-present	Los Angeles Society of Ophthalmology
2019-present	American Association for Pediatric Ophthalmology and Strabismus
2021-present	The Retina Society (Elected)
2022-present	The Macula Society (Elected)
2025-present	Gass Club (Elected)

RESEARCH AND SCHOLARSHIP

EDITORSHIPS AND EDITORIAL BOARDS:

2019-present	Assistant Editor	Retinal Cases and Brief Reports
2021-present	Assistant Editor	Ophthalmology Science

MANUSCRIPT REVIEW:

2014-present *Retina*
 2015-present *Journal of Pediatric Ophthalmology and Strabismus*
 2015-present *Ophthalmology*
 2015-present *Investigative Ophthalmology and Visual Science*
 2016-present *Journal of the American Association of Pediatric Ophthalmology and Strabismus*
 2017-present *Ophthalmology Retina*
 2018-present *Retinal Cases and Brief Reports*
 2018-present *American Journal of Ophthalmology*
 2018-present *Scientific Reports*
 2020-present *Stem Cells Translational Medicine*
 2020-present *Ophthalmic Surgery, Lasers, and Imaging Retina*

GRANT REVIEWS:

<i>Year</i>	<i>Description</i>	<i>Awarding agency, City, State, Country</i>
2020	Grant review	UKRI Medical Research Council, Swindon, England, UK
2022	NIH Study Section	National Eye Institute (BDE), Bethesda, MA, USA
2023	NIH Study Section	National Eye Institute (K99), Bethesda, MA, USA
2024	Grant Review	Ophan Disease Center Pilot Grants, Philadelphia, PA, USA

MAJOR AREAS OF RESEARCH INTEREST

Research Areas

1. Human retinal development and synaptogenesis
2. Mechanisms of retinal regeneration
3. Pediatric retinal diseases and gene therapy surgery

GRANT SUPPORT - CURRENT:

1 K08 EY030924-01 (Nagiel) 6/1/2020-5/31/2025

NIH/ National Eye Institute 75% effort

Development and Maintenance of the Human Photoreceptor-Bipolar Cell Synapse

The goal of this study is to investigate mechanisms of synapse formation, maintenance, and specificity between photoreceptors and bipolar cells in the human retina by using stem cell-derived human retinal organoids.

Role: PI

Total Direct Costs \$1,024,100

Industry Sponsored Clinical Trials (Nagiel) 06/28/2021-06/27/2026

MeiraGTx UK Ltd. 1% effort

Phase 3 Randomized, Controlled Study of AAV5-hRKp.RPGR for the Treatment of X-linked Retinitis Pigmentosa Associated with Variants in the RPGR gene

This is a multi-center prospective interventional clinical trial involving the surgical administration of gene therapy to treat X-linked retinitis pigmentosa (RPGR).

Role: PI

Total Direct Costs Based on Enrollment

Industry Sponsored Clinical Trials (Nagiel) 05/08/2023-5/07/2028
Atsena Therapeutics, Inc. 0.5% effort
A Phase 1/2, Open-Label, Dose Escalation and Dose Expansion Study to Evaluate the Safety and Tolerability of ATSN-201 Gene Therapy in Male Subjects with RS1-Associated X-linked Retinoschisis
This is a phase 1/2 clinical trial to assess the safety and tolerability of ATSN-201 for patients with RS1-Associated X-linked Retinoschisis
Role: PI
Total Direct Costs Based on Enrollment

Foundation Grant (Nagiel) 10/1/2024-9/30/2026
The Retina Society 0.5% effort (cost share)
Lats kinase inhibition for retinal regeneration
The goal of this research is to perform pharmacokinetic studies on a small-molecule inhibitor of the Hippo pathway to treat geographic atrophy.
Role: PI
Total Direct Costs \$50,000

GRANT SUPPORT - PAST:

RPB Career Development Award (Nagiel) 1/1/2021-12/31/2024
Research to Prevent Blindness 2% effort
Role of non-canonical Wnt signaling in the developing human photoreceptor-bipolar cell synapse
The goal of this research is to investigate the role of a key biological signaling pathway known as non-canonical Wnt in synapse formation, maintenance, and specificity between photoreceptors and bipolar cells.
Role: PI
Total Direct Costs \$350,000

Industry Sponsored Clinical Trials (Nagiel) 03/05/2019-03/04/2024
Spark Therapeutics Inc. 1% effort
A Post-Authorization, Multicenter, Multinational, Longitudinal, Observational Safety Registry Study for Patients Treated with voretigene neparvovec-rzyl
This is a multi-center safety registry study for patients with RPE65-mediated Leber congenital amaurosis who have undergone treatment with voretigene neparvovec-rzyl.
Role: PI
Total Direct Costs \$30,650

Foundation Grant (Nagiel) 5/1/2021-4/30/2023 (No cost extension)
Thome Memorial Foundation 5% effort
Hippo pathway inhibition for the treatment of geographic atrophy.
This study aims to utilize a novel small molecule inhibitor of Hippo signaling to facilitate endogenous repair of photoreceptors and retinal pigment epithelium for treatment of geographic atrophy.
Role: PI
Total Direct Costs \$281,250

Industry Sponsored Clinical Trials (Nagiel) 12/1/2021-4/1/2023
Janssen Research and Development 0.3% effort
Study to Determine Presence of Genetically Confirmed CNGA3- and CNGB3-Associated Achromatopsia Patients at Investigational Sites for Potential Participation in Future Clinical Research Studies
This is a prospective natural history study for patients with CNGA3 and CNGB3-associated achromatopsia
Role: PI
Total Direct Costs Based on Enrollment

Intramural Funding (Nagiel) 7/1/2020-6/31/2022

The Saban Research Institute/Children's Hospital Los Angeles 2% effort

*Development and Maintenance of the Human Photoreceptor-Bipolar Cell Synapse in Human Retinal Organoids
The goal of this project is to utilize two fluorescent protein-expressing cell lines to facilitate detection of contacts between rods and rod bipolar cell dendrites in developing human retinal organoids.*

Role: PI

Total Direct Costs \$120,000

Industry Sponsored Clinical Trials (Campbell) 01/01/2019-12/31/2021

Genentech Foundation 1% effort

Partnership for ROP Evaluation in the Real world (PROPER)

The goal of this study is to prospectively analyze all treatment-requiring babies over a 1-year period for short-term outcomes and disease recurrence. Additionally, we aim to evaluate deep learning to predict which eyes are more likely to have unfavorable outcomes.

Role: Sub-PI

Total Direct Costs \$62,500

Baxter Foundation Fellowship Award (PI: Aaron Nagiel) 7/1/2019-6/30/2020

Donald E. and Delia B. Baxter Foundation 10% effort

Development and Maintenance of the Photoreceptor-Bipolar Cell Synapse in Human Retinal Organoids

Total Direct Costs: \$100,000

Career Starter Research Grant (PI: Aaron Nagiel) 7/1/2018-6/30/2019

Knights Templar Eye Foundation 8% effort

Development and Maintenance of the Photoreceptor-Bipolar Cell Synapse in Human Retinal Organoids

Mentor: David Cobrinik, MD, PhD

Total Direct Costs: \$65,000

5F30NS062486 (PI: Aaron Nagiel) 4/1/2008-4/1/2011

NINDS 100% effort

Specificity of Neuronal Connections in the Zebrafish Lateral Line

Role: Graduate (MD/PhD) student in the laboratory of A. James Hudspeth, MD, PhD

Total Direct Costs: \$153,878

ISSUED AND PENDING PATENTS:

Patent Holder Names. Title. Institution. File #. Reference #. US Patent and Trademark Serial No.

Inventors: Aaron Nagiel, Ksenia Gnedeva, Erik A. Souverein. "Lats Kinase Inhibitor to Treat Retinal Degeneration." 2024 Apr 4. US Patent Application. Status: Patent pending.

INVITED LECTURES, SYMPOSIA, KEYNOTE ADDRESSES

<i>Year</i>	<i>Type</i>	<i>Title, Location</i>
2021	Invited Lecture	"Gene Therapy for Blinding Eye Diseases," Dallas Academy of Ophthalmology
2021	Invited Lecture	"Development of the Outer Plexiform Layer in the Human Retina," Retinal Disease Interest Group, National Eye Institute
2023	Invited Lecture	"Development of the Outer Plexiform Layer: Insights from Human Retinal Organoids," Vision Research Seminar, University of Michigan
2024	Invited Lecture	Arch McNamara Lecture: "New Frontiers in Retinal Gene Therapy," Wills Eye Hospital/Mid Atlantic Retina

INVITED GRAND ROUNDS, CME LECTURES

Year	Type	Title, Location
2020	CME Lectures	"Endoscopic Vitrectomy" and "Gene Therapy," Hawaiian Retina Meeting
2021	Grand Rounds	"New Frontiers in Pediatric Retina," UT Southwestern Ophthalmology Dept
2022	CME Lectures	"Pediatric Retina" and "Personalized Medicine," Kaiser Southern California Symposium
2023	Grand Rounds	"New Frontiers in Retinal Gene Therapy: From Voretigene to Base Editing," Weill Cornell Department of Ophthalmology
2023	CME Lecture	"BLIPs associated with CHRPE lesions," Pacific Retina Club
2023	CME Lecture	"Complications of gene therapy," Advances in Pediatric Retina meeting
2024	Grand Rounds	"New Frontiers in Retinal Gene Therapy: From Voretigene to Base Editing," UCSF Department of Ophthalmology
2025	Grand Rounds	"New Frontiers in Retinal Gene Therapy: From Voretigene to Base Editing," UC Irvine Department of Ophthalmology

THESIS:

2010 Ph.D. The Rockefeller University Synaptic Specificity in the Zebrafish Lateral Line

PUBLICATIONS:

* INDICATES TRAINEES

** INDICATES CO-FIRST OR CO-CORRESPONDING OR SENIOR AUTHORS

REFEREED JOURNAL ARTICLES:

1. Gonzalez E, **Nagiel A**, Lin AJ, Golan DE, and Michel T. Small interfering RNA-mediated down-regulation of caveolin-1 differentially modulates signaling pathways in endothelial cells. *Journal of Biological Chemistry*. 279(39):40659-69, 2004. PMID: 15292187, *Designed and validated siRNAs used in the study*.
2. **Nagiel A**, Andor-Ardó D, Hudspeth AJ. Specificity of afferent synapses onto plane-polarized hair cells in the posterior lateral line of the zebrafish. *J Neurosci*. 28(34):8442-53, 2008. PMID: 18716202, PMCID: PMC2665254.
3. Gleason MR, **Nagiel A**, Jamet S, Vologodskaja M, López-Schier H, Hudspeth AJ. The transmembrane inner ear (Tmie) protein is essential for normal hearing and balance in the zebrafish. *Proc Natl Acad Sci USA*. 106(50): 21347-52, 2009. PMID: 19934034, PMCID: PMC2781060, *Performed the transmission electron microscopy*.
4. **Nagiel A**, Patel SH, Andor-Ardó D, Hudspeth AJ. Activity-independent specification of synaptic targets in the posterior lateral line of the larval zebrafish. *Proc Natl Acad Sci USA*. 106(51):21948-53, 2009. PMID: 19996172, PMCID: PMC2790364.
5. **Nagiel A**, Espiritu MJ, Wong RK, Lee TC, Lauer AK, Chiang MF, Chan RV. Retinopathy of prematurity residency training. *Ophthalmology*. 119(12):2644-2645, 2012. PMID: 23207022; PMCID: PMC3921178.
6. Francis JH, Gobin YP, **Nagiel A**, Dunkel IJ, Kucine N, Marr BP, Brodie SE, Abramson DH. Thrombophilia in patients with retinoblastoma receiving ophthalmic artery chemosurgery. *Arch Ophthalmol*. 130(12):1605-8, 2012. PMID: 23229706, *Data collection*.
7. **Nagiel A**, Freund KB, Spaide RF, Munch IC, Larsen M, Sarraf D. Mechanism of retinal pigment epithelium tear formation following intravitreal anti-vascular endothelial growth factor therapy revealed by spectral-domain optical coherence tomography. *American Journal of Ophthalmology*. 156(5):981-988, 2013. PMID: 23972309.

8. **Nagiel A**, Sarraf D, Sadda SR, Spaide RF, Jung JJ, Bhavsar KV, Ameri H, Querques G, Freund KB. Type 3 Neovascularization: Evolution, Association with Pigment Epithelial Detachment, and Response to Therapy as Revealed by Spectral-Domain Optical Coherence Tomography. *Retina*. 35(4): 638-47, 2015. PMID: 25650713.
9. Chang MY, Shin A, Park J, **Nagiel A**, Lalane RA, Schwartz SD, Demer JL. Deformation of Optic Nerve Head and Peripapillary Tissues by Horizontal Duction. *American Journal of Ophthalmology*. 174:85-94, 2017. PMID: 27751810, PMCID: PMC5812679, *Assisted in image acquisition and protocol*.
10. **Nagiel A**, McCannel CA, Moreno C, McCannel TA. Vitrectomy-Assisted Biopsy for Molecular Prognostication of Choroidal Melanoma 2 mm or Less in Thickness with a 27 Gauge Cutter. *Retina*. 37(7):1377-1382, 2017. PMID: 28486310.
11. Chen X, Sanfilippo CJ, **Nagiel A**, Hosseini H, Mitchell D, McCannel CA, Schwartz SD, McCannel TA. Early Detection of Retinal Hemangioblastomas in von Hippel-Lindau Disease using Ultra-Widefield Fluorescein Angiography. *Retina*. 38(4):748-54, 2018. PMID: 28368975, *Data collection and manuscript review*.
12. Phasukkijwatana N, Freund KB, Dolz-Marco R, Al-Sheikh M, Keane PA, Egan CA, Randhawa S, Stewart JM, Liu Q, Hunyor AP, Kreiger A, **Nagiel A**, Lalane R, Rahimi M, Lee WK, Jampol LM, Sarraf D. Peripapillary Pachychoroid Syndrome. *Retina*. 38(9):1652-1667, 2018. PMID: 29135799, *Case contribution and manuscript review*.
13. Xu D, **Nagiel A**, Rahimy E, McCannel CA. Practice Patterns of Endophthalmitis Treatment: An International Survey of Retina Specialists. *Ophthalmol Retina*. 2(9):979-980, 2018. PMID: 31047231, *Study design and manuscript editing*.
14. Yang U*, Gentleman S, Gai X, Gorin MB, Borchert MS, Lee TC, Villanueva A, Koenekoop R, Maguire AM, Bennett J, Redmond TM, **Nagiel A**. In Vitro Mutagenesis of RPE65 Protein for Verification of Mutational Pathogenicity Prior to Gene Therapy Surgery. *JAMA Ophthalmol*. 137(12):1-9, 2019. PMID: 31580392, PMCID: PMC6777234.
15. **Nagiel A**, Yang U*, Reid MW, Anulao KJ, Say EAT, Wong SC, Lee TC. Visual and Anatomic Outcomes of Pediatric Endoscopic Vitrectomy in 326 Cases. *Retina*, 40(11):2083-2090, 2020. PMID: 32091489.
16. Fan KC, Yannuzzi NA, Patel NA, Negron CI, Sisk RA, **Nagiel A**, Berrocal AM. Surgical Techniques for the Subretinal Delivery of Gene Therapy in Pediatric Patients. *Ophthalmol Retina*, 4(6):644-645, 2020. PMID: 32387052, PMCID: PMC7313618, *Data collection and critical manuscript editing*.
17. Hamad AE, Moinuddin O, Blair MP, Schechet SA, Shapiro MJ, Quiram PA, Mammo DA, Berrocal AM, Prakhunhungsit S, Cernichiaro-Espinosa LA, Mukai S, Yonekawa Y, Ung C, Holz ER, Harper CA 3rd, Young RC, Besirli CG, **Nagiel A**, Lee TC, Gupta MP, Walsh MK, Khawly JA, Campbell JP, Kychenthal A, Nudleman ED, Robinson JE, Hartnett ME, Calvo CM, Chang EY. Late-Onset Retinal Findings and Complications in Untreated Retinopathy of Prematurity. *Ophthalmol Retina*, 4(6):602-612, 2019. PMID: 32059986, PMCID: PMC7282927. *Case contributions and critical review of manuscript*.
18. Fung AT, Waldstein SM, Gal-Or O, Pellegrini M, Preziosa C, Shields JA, Welch J, Dolz-Marco R, Sarraf D, **Nagiel A**, Lalane RA, Jung JJ, Ghazi N, Ramtohol P, Arnold JJ, Sakurada Y, Chowdhury N,

- Balarantnasingham C, Freund KB, Shields CL. Focal Scleral Nodule- A New Name for Solitary Idiopathic Choroiditis. *Ophthalmology*, 127(11):1567-1577, 2020. PMID: 32507351. *Case contribution and manuscript review.*
19. Shurygina MF, Simonett JM, Parker MA, Mitchell A, Grigorian F, Lifton J*, **Nagiel A**, Shpak AA, Dadali EL, Mishina IA, Weleber RG, Yang P, Pennesi ME. Long-term follow-up of microcephaly with chorioretinopathy or familial exudative vitreoretinopathy caused by mutations in KIF11, TUBGCP4 or TUBGCP6. *Investigative Ophthalmology & Visual Science*, 61(13):2, 2020. PMID: 33137195, PMCID: PMC7645200. *Case contribution and manuscript review.*
20. Campbell JP, Kim SJ, Brown JM, Ostmo S, Chan RVP, Kalpathy-Cramer J, Chiang MF; of the Imaging and Informatics in Retinopathy of Prematurity Consortium. Evaluation of a Deep Learning-Derived Quantitative Retinopathy of Prematurity Severity Scale. *Ophthalmology*, 128(7):1070-1076, 2020. PMID: 33121959, PMCID: PMC8076329. *CHLA sub-PI and member of the Informatics in Retinopathy of Prematurity Consortium.*
21. Rossin EJ, Tsui I, Wong SC, Hou KK, Prakhunhungsit S, Blair MP, Shapiro MJ, Leishman L, **Nagiel A**, Lifton JA*, Quiram P, Ringeisen AL, Henderson RH, Arruti N, Buzzacco DM, Kusaka S, Ferrone PJ, Belin PJ, Chang E, Hubschman JP, Murray TG, Leung EH, Wu WC, Olsen KR, Harper CA 3rd, Rahmani S, Goldstein J, Lee T, Nudleman E, Cernichiaro-Espinosa LA, Chhablani J, Berrocal AM, Yonekawa Y. Traumatic retinal detachment in patients with self-injurious behavior: an international multicenter study. *Ophthalmol Retina*, 5(8):805-814, 2021. PMID: 33238225. *Case contribution and manuscript review.*
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14. Bharathan SP, Ferrario A, Stepanian K, Calderon R, Fernandez GE, Reid MW, Marks C, Thornton ME, Grubbs BH, Lee TC, Cobrinik D, Aparicio J, **Nagiel A**. Characterization and staging of human outer plexiform layer morphogenesis and synaptogenesis in retinal organoids. Virtual paper presentation at *Association for Research in Vision and Ophthalmology*, May 2020.
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MEDIA AND TELEVISION APPEARANCES:

1. July 11, 2019. "2 People try revolutionary drug to keep from going blind," ABC Nightline.
2. February 3, 2020. "Injecting a missing gene could restore his sight," Bloomberg.
3. July 14, 2021. "Esta pequeña estuvo a punto de perder la vista, pero gracias a un programa en California recibió ayuda médica," Univision [Spanish].