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EMPLOYMENT HISTORY:

08/2020 – present VMR Institute, Huntington Beach, California
Vitreoretinal Specialist

06/2009 – 08/2009 Genentech, Inc., South San Francisco, California
Intern in Protein Analytical Chemistry Department

08/2006 – 05/2009 Cornell University, Ithaca, New York
Chemistry 207/208/357/358 and Biology 102 Tutor

06/2006 – 08/2006 Watson Pharmaceuticals, Inc. (Actavis, Inc.), R&D Department, Corona, California
Intern Scientist I

ACADEMIC APPOINTMENTS:

10/2021 – present Stein Eye Institute, UCLA, Los Angeles, California
Volunteer Clinical Instructor of Ophthalmology

EDUCATION & TRAINING:

07/2018 – 07/2020 Stein Eye Institute, UCLA, Los Angeles, California
Vitreoretinal Surgery Fellow

07/2015 – 06/2018 Stein Eye Institute, UCLA, Los Angeles, California
Ophthalmology Resident

06/2014 – 06/2015 Harbor-UCLA Medical Center, Torrance, California
Transitional Year Intern

08/2009 – 05/2014 Yale University School of Medicine, New Haven, Connecticut
M.D.

08/2005 – 05/2009 Cornell University, Ithaca, New York
B.Sc. in Biological Sciences

AWARDS & HONORS:

2006 – 2007 Hatch/Multistate Grants (2) for Undergraduate Research

2007 Dextra Grant for Undergraduate Research

2009 *Magna cum laude*, Cornell Chapter

2009 Highest Honors in Research, Cornell University

2012 Yale University School of Medicine Medical Student Research Fellowship

2012 James G. Hirsch Endowed Medical Student Research Fellowship

2013 Richard Alan Hirschfield Medical Student Research Memorial Fellowship

2014 Department of Medicine Honors in Research, Yale University

2019 Jules Stein Eye Institute Fellow Excellence in Research Award

PUBLICATIONS:

Gui W, Sebag J. Letter to the Editor: Utilization of spectral domain optical coherence tomography to identify posterior vitreous detachment in patients with a retinal detachment. *Retina*. 42(1):e5-e7. 2022.

Gui W, Au A, Rabina G, Kapelushnik N, Cohen S, Masarwa D, Hosseini H, Schwartz S, Loewenstein A, Schwartz SD. Pigment Epithelial Detachment in Age-Related Macular Degeneration: Long Term Visual Acuity Outcomes May Improve with Higher Injection Index. *Retina*. 41(11):2229-2235. 2021.

Gui W, Hubschman JP, Sebag, J. Re: Lam et al.: Postoperative outcomes of idiopathic epiretinal membrane associated with foveoschisis. Correspondence. *Br J Ophthalmol*. 2021.

Gui W, Pan B, Sadun AA, Sebag J. Importance of the inner limiting membrane in adults. Correspondence. *Exp Eye Res*. 207. doi.org/10.1016/j.exer.2021.108582. 2021.

Gui W, Hosseini H. An Old Problem in a New Era. *The Retina Challenge from the American Society of Retina Specialists*. 2021.

Gui W, Sebag J. Re: Özsaygili et al.: The effect of posterior vitreous detachment on aflibercept response in diabetic macular oedema. Correspondence. *Br J Ophthalmol*. 2020.

Gui W, Sebag J. Re: Ishida et al.: Risk Factors, Onset, and Progression of Epiretinal Membrane after 25-Gauge Pars Plana Vitrectomy for Rhegmatogenous Retinal Detachment. Correspondence. *Ophthalmology Retina*. Nov;4(11):e10-e11. 2020.

Baumal CR*, Sarraf D*, Bryant T, **Gui W**, Muakkassa N, Pichi F, Querques G, Choudhry N, Teke M, Govetto A, Invernizzi A, Elliott D, Gaudric A, Cunha De Souza E, Naysan J, Lemuto A, Lee G, Freund KB. Outer Hemorrhagic Henle Maculopathy (OHHM): Clinical Features and Pathogenesis of a New Syndrome. *Br J Ophthalmol*. doi: 10.1136/bjophthalmol-2019-315443 2020.

*equal authorship

Gui W, Prasad P. Modified Technique for Scleral-Fixated Akreos AO60 IOL (Video). *AAO One Network*. 2020.

Kothari N, Chu A, Huang JM, Lin F, Lin BR, Manoharan N, **Gui W**, Huang AS, Tsui I. Arm-mounted Optical Coherence Tomography Angiography in Extremely Low Birth Weight Neonates with Retinopathy of Prematurity. *Am J Ophthalmol Case Rep*. doi: 10.1016/j.ajoc.2020.100624. 2020.

Gui W, Yan M, Elia M, Huang JJ. Automated Telemedicine Image Analysis for Diabetic Retinopathy Screening. *Conn Med*. 83(1):21-24. 2019.

Wang YE, Tepelus TC, Vickers LA, Baghdasaryan E, **Gui W**, Huang P, Irvine JA, Sadda S, Hsu HY, Lee OY. Role of in vivo confocal microscopy in the diagnosis of infectious keratitis. *Int Ophthalmol*. doi: 10.1007/s10792-019-01134-4. [Epub ahead of print]. 2019.

Wang YE, Tepelus TC, **Gui W**, Irvine JA, Lee OL, Hsu, HY. Reduction of Acanthamoeba Cyst Density Associated With Treatment Detected by In Vivo Confocal Microscopy in Acanthamoeba Keratitis. *Cornea*. 38(4):463-468. 2019.

Hariri A*, **Gui W***, O'Keefe GA, Sadda SR, Gorin MB. Ultra-Widefield Fundus Autofluorescence Imaging of Patients with Retinitis Pigmentosa: A Genotype-Phenotype Correlation. *Ophthalmology Retina*. 2(7):735-745. 2018.

*equal authorship

Gui W, Nusinowitz S, Sarraf D. A Novel Cone Dystrophy with Central Ellipsoid Zone Loss Associated with Human Retinal Fascin Gene (FSCN2) Mutation. *Retin Cases Brief Rep*. Fall;12 Suppl 1:S63-S66. 2018.

Gui W, Friesen ET, Bonelli L, Wang YE, Arnold AA. Severe bilateral optic nerve and retinal hypoperfusion in a patient with acute respiratory distress syndrome and septic shock. *Am J Ophthalmol Case Rep*. 6:84-87. 2017.

Gui W, Wisnewski AV, Neamtii I, Gurzau E, Sparer JA, Stowe MH, Liu J, Slade MD, Rusu OA, Redlich CA. Inception Cohort Study of Workers Exposed to Toluene Diisocyanate at a Polyurethane Foam Factory: Initial One-Year Follow-up. *Am J Ind Med*. 57(11):1207-15. 2014.

Gui W, Dombrow M, Marcus I, Stowe MH, Tessier-Sherman B, Yang E, Huang JJ. Quality of Life in Patients with Non-Infectious Uveitis Treated With or Without Systemic Anti-Inflammatory Therapy. *Ocul Immunol Inflamm*. 27:1-9. 2014.

Gui W, Angoff NR. Double Vision. *Acad Med*. 89(2):291. 2014.

Gui W, Lemley BA, Keresztes I, Condo AM, Steadman KJ, Obendorf RL. Purification and molecular structure of digalactosyl *myo*-inositol (DGMI), trigalactosyl *myo*-inositol (TGMI), and fagopyritol B3 from common buckwheat seeds by NMR. *Carbohydr Res*. 380:130-136. 2013.

Le T, Bhushan V, Hoffmann J, Bucholz E*, Buerba R*, Butala N*, Fieber J*, Gayed P*, **Gui W***, Kulkarni V*, Kuo E*, Liu L*, Moreno A*, Pavisic J*, Steinberg J*, Strohbahn G*, Theodosakis N*. *First Aid for the USMLE Step 1 2012*. McGraw-Hill Medical. 2011.

*equal authorship

PRESENTATIONS:

Gui W, Sarraf D. Mystery Case (Oral). MaculArt Meeting. Paris, France. June 2019.

Gui W, Sarraf D. Deep Trouble (Oral). Pacific Retina Club Meeting. Los Angeles, CA. March 2019.

Gui W, Wang YE, McCannel TA. Iris Biopsy Under Air: A Novel Technique for Biopsy of Suspicious Iris Lesions (Poster). Association for Vision and Ophthalmology Research Conference. Honolulu, HI. May 2018.

Gui W, Sadun AA, Quiros PA. When a WINO Goes Blind (Oral). Doheny Society of Scholars and UCLA Ophthalmology Clinical Conference. Los Angeles, CA. January 2018.

Gui W, Hariri A, O'Keefe GA, Sadda SR, Gorin MB. Ultra-Widefield Fundus Autofluorescence Imaging of Patients with Retinitis Pigmentosa: A Genotype-Phenotype Correlation (Poster). Accepted for Presentation at American Academy of Ophthalmology Meeting. New Orleans, LA. November 2017.

Gui W, Sarraf D. Vital Losses (Oral). Pacific Retina Club Meeting. Los Angeles, CA. March 2017.

Gui W, Quiros PA. A Field of Pitfalls (Oral). Doheny Society of Scholars and UCLA Ophthalmology Clinical Conference. Los Angeles, CA. January 2017.

Gui W, Zemon V, Gordon J, Hu G, Huang JJ. Assessment of Neural Mechanisms in Central Visual Function: A Visual Evoked Potential Study in Observers with and without Age-Related Macular Degeneration (Poster). Vision Sciences Society Meeting. Naples, FL. May 2013.

Gui W, Dombrow M, Marcus I, Tessier-Sherman B, Stowe M, Huang JJ. Effect of Treatment Modality on Quality of Life in Patients with Non-Infectious Uveitis (Poster). The Association for Vision and Ophthalmology Research Conference. Seattle, WA. May 2013 and New England Ophthalmological Society Meeting. Boston, MA. May 2013.

Gui W, Neamtiu I, Wisnewski A, Liu J, Gurzau E, Redlich CA. Inception Cohort Study of Workers Exposed to Toluene Diisocyanate at a Polyurethane Foam Factory: One Year Follow-up (Oral). Isocyanates & Health Conference. Potomac, MD. April 2013.

Gui W, Neamtiu I, Wisnewski A, Liu J, Gurzau E, Redlich CA. Longitudinal Inception Cohort Study of Toluene Diisocyanate Exposed Workers at a Polyurethane Foam Factory: Initial Year One Follow-up (Poster). American Occupational Health Conference. Los Angeles, CA. April 2012.

INVITED LECTURES:

Gui W. Ophthalmology (Retina) Shadowing Session. Webshadows. October 2021.

CLINICAL TRIALS:

2020 – present

Sponsor: Chengdu Kanghong Biotechnology

Study #: KBH-1802

Study Title: A Multicenter, Double-Masked, Randomized, Dose-Ranging Trial to Evaluate the Efficacy and Safety of Conbercept Intravitreal Injection in Subjects with Neovascular Age-related Macular Degeneration (PANDA)

Sponsor: Novartis

Study #: CRTH258B2305

Study Title: A 12-Month, 2-Arm, Randomized, Double-Masked, Multicenter Phase III Study Assessing the Efficacy and Safety of Brolucizumab every 4 weeks versus Aflibercept every 4 weeks in Adult Patients with Visual Impairment due to Diabetic Macular Edema (KINGFISHER)

Sponsor: Novartis

Study #: CRTH258A2303

Study Title: A 64-week, 2-Arm, Randomized, Double-masked, multi-center, Phase IIIb study Assessing the Efficacy and Safety of Brolucizumab 6 mg compared to Aflibercept 2 mg in a Treat-to-Control regimen in Patients with Neovascular Age-Related Macular Degeneration (TALON)

Sponsor: Xbrane Xplore

Study #: XBR1001

Study Title: Xplore: A Phase III Double-Blind, Parallel Group, Multicenter Study to Compare the Efficacy and Safety of Xlucane Versus Lucentis in Patients with Neovascular Age-Related Macular Degeneration

Sponsor: Novartis

Study #: CRTH258AUS04

Study Title: A Multicenter, Randomized, Double-Masked Phase 3a Study to Assess Safety and Efficacy of Brolucizumab 6 mg q4 weeks Compared to Aflibercept 2 mg q4 Weeks in Patients with Neovascular Age-Related Macular Degeneration (nAMD) with Persistent Retinal Fluid (MERLIN)

Sponsor: Apellis

Study #: APL2-304

Study Title: A Phase III, Multi-Center, Randomized, Double-Masked, Sham-Controlled Study to Compare the Efficacy and Safety of Intravitreal APL-2 Therapy with Sham Injections in Patients with Geographic Atrophy (GA) Secondary to Age-Related Macular Degeneration (AMD)

Sponsor: Regeneron

Study #: VGFTe-HD-DME-1934

Study Title: A Randomized, Double-masked, Active Controlled, Phase 2/3 Study of the Efficacy and Safety of High-Dose Aflibercept in Patients with Diabetic Macular Edema

2018 – 2020

Sponsor: Astellas Institute for Regenerative Medicine. PI: Steven Schwartz, MD

Protocol: A Staged Study Incorporating a Phase 1b, Multicenter, Unmasked, Dose Escalation Evaluation of Safety and Tolerability and a Phase 2, Multicenter, Unmasked, Randomized, Parallel-Group, Controlled, Proof of Concept Investigation of Efficacy and Safety of ASP7317 for Atrophy Secondary

Sponsor: Aura Biosciences Inc. PI: Tara McCannel, MD, Ph.D

Protocol: A phase 1B/2 Open-Label, Ascending Single and Repeat Dose Clinical Trial Designed to Evaluate the Safety and Efficacy of Light-Activated AU-011 for the Treatment of Subjects with Small Primary Choroidal Melanoma

Sponsor: Iveric Bio Inc. PI: Steven Schwartz, MD

Protocol: A Phase 2B Randomized, Double-Masked, Controlled Trial to Establish the Safety and Efficacy of Zimura (Compliment C5 Inhibitor) Compared to Sham in Subjects with Autosomal Recessive Stargardt Disease

Sponsor: Lowy Medical Research Institute and Neurotech, USA. PI: Jean-Pierre Hubschman, MD

Protocol: A Natural History Observation and Registry Study of Macular Telangiectasia Type 2
Protocol: Extension Study of NT-501 Ciliary Neurotrophic Factor (CNTF) Implant for Macular Telangiectasia

Protocol: A Phase 3 Multicenter, Randomized, Sham-Controlled, Study to Determine the Safety and Efficacy of Renexus in Macular Telangiectasia type 2

Sponsor: Novo Nordisk. PI: Matthew Freeby, MD with Steven Schwartz, MD as Primary Ophthalmologist

Protocol: Long-term Effects of Semaglutide on Diabetic Retinopathy in Subjects with Type 2 Diabetes (FOCUS)

THESES:

Medical School Thesis

Inception Cohort Study of Workers Exposed to Toluene Diisocyanate at a Polyurethane Foam Factory

Advisor: Carrie Redlich, MD, MPH

Yale University School of Medicine, March 2014

Undergraduate Thesis

Purification and molecular structure of digalactosyl *myo*-inositol (DGMI), trigalactosyl *myo*-inositol (TGMI), and fagopyritol B3 and identification of *N*-(β -glucopyranosyl)-nicotinic acid from buckwheat seeds by NMR

Advisor: Ralph L. Obendorf, PhD

Cornell University, May 2009

ACTIVITIES & SERVICE:

10/2021 – present Serve the People Community Health Center, Santa Ana, California
Retina Clinic Volunteer

10/2021 – present Cornell Alumni Admissions Ambassadors Network
Alumni Admissions Volunteer

04/2021 – present Yale University Alumni Association
Graduate & Professional Student Mentor

BOARD CERTIFICATIONS:

- American Board of Ophthalmology

PROFESSIONAL SOCIETIES:

- American Academy of Ophthalmology
- American Society of Retina Specialists
- Orange County Society of Ophthalmology

FOREIGN LANGUAGE SKILLS:

- Mandarin Chinese (Fluent)