



## Loh-Shan Bryan Leung, MD

Clinical Associate Professor, Ophthalmology

### CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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### Bio

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#### CLINICAL FOCUS

- Vitreoretinal Surgery
- Retinal Electrophysiology
- Retinal Degeneration
- Age Related Macular Degeneration
- Retina Specialist

#### ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Ophthalmology

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Fellow, American Society of Retinal Specialists (2014 - present)
- Member, American Academy of Ophthalmology (2012 - present)

#### PROFESSIONAL EDUCATION

- Internship: St Vincent's Catholic Medical Center Manhattan / New York Medical College (2006) NY
- Fellowship: Stanford University Ophthalmology Fellowships (2010) CA
- Residency: Columbia University Medical Center Ophthalmology (2009) NY
- Board Certification: Ophthalmology, American Board of Ophthalmology (2010)
- Medical Education: Johns Hopkins University School of Medicine (2005) MD
- Fellowship, Stanford University- Ophthalmology Department , Vitreoretinal Diseases and Surgery (2012)

### Research & Scholarship

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#### CLINICAL TRIALS

- Phase 3, Randomized, Placebo-Controlled Study of Tinarebant to Explore Safety and Efficacy in Adolescent Stargardt Disease, Recruiting

## Publications

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### PUBLICATIONS

- **Age-related macular degeneration associated with optic disc drusen** *FRONTIERS IN OPHTHALMOLOGY*  
Alkhabaz, A., Kim, M., Pujari, R., Zhang, J., Ren, Y., Leung, L., Liao, Y.  
2025; 5: 1620616
- **Deep-learning algorithm for the diagnosis and prediction of hydroxychloroquine retinopathy: An International, multi-institutional study.** *Ophthalmology. Retina*  
Woodward-Court, P., Hogg, J., Lee, T., Taribagil, P., Zhao, C. S., Otti, V., Tucker, W. R., Allingham, M., Alekseev, O., Wagner, S. K., Myung, D., Leung, L., Lad, et al  
2025
- **Enhanced genotype-phenotype analysis using multimodal adaptive optics and 3D protein structure in Bietti Crystalline Dystrophy.** *American journal of ophthalmology case reports*  
Kumar, A., Sun, Y. J., Rasmussen, D. K., Hargrave, A., Phillips, C., Vu, J. T., Costa, M. G., Leung, L. B., Yu, C., Dubra, A., Mahajan, V. B.  
2025; 38: 102312
- **Resolution of subretinal fluid in intractable central serous chorioretinopathy with high-dose intravitreal aflibercept.** *American journal of ophthalmology case reports*  
Lin, J. B., Leung, L. B.  
2025; 37: 102266
- **METformin for the MINimization of Geographic Atrophy Progression (METforMIN): A Randomized Trial.** *Ophthalmology science*  
Shen, L. L., Keenan, J. D., Chahal, N., Taha, A. T., Saroya, J., Ma, C. J., Sun, M., Yang, D., Psaras, C., Callander, J., Flaxel, C., Fawzi, A. A., Schlesinger, et al  
2024; 4 (3): 100440
- **Crystalline Hepatopathy Associated With Bietti Crystalline Dystrophy: A Striking Manifestation of Disordered Fatty Acid Metabolism.** *The American journal of surgical pathology*  
Dulken, B. W., Bahceci, D., Leung, L. S., Mahajan, V. B., Choi, W. T., Tan, S. Y.  
2024
- **Oculometric biomarkers of visuomotor deficits in clinically asymptomatic patients with systemic lupus erythematosus undergoing long-term hydroxychloroquine treatment.** *Frontiers in ophthalmology*  
Berneshawi, A. R., Seyedmadani, K., Goel, R., Anderson, M. R., Tyson, T. L., Akay, Y. M., Akay, M., Leung, L. B., Stone, L. S.  
2024; 4: 1354892
- **Incidence and associations of retinal detachment after Yttrium Aluminum Garnet (YAG) capsulotomy**  
Cheng, B., Hwang, B., Leung, L.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Patterns of Diagnostic Imaging for Stroke after Retinal Artery Occlusion**  
Hwang, B., Cheng, B. T., Leung, L.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Severe progression of pentosan maculopathy over a decade.** *American journal of ophthalmology case reports*  
Guo, L. Y., Mishra, K., Leung, L. B.  
2023; 30: 101826
- **METformin FOR the MINimization (METforMIN) of Geographic Atrophy Progression in Patients with Non-exudative Age-Related Macular Degeneration - A Randomized Trial**  
Shen, L., Keenan, J., Chahal, N., Taha, A., Saroya, J., Ma, C., Sun, H., Yang, D., Flaxel, C., Fawzi, A., Schlesinger, T., Wong, R., Leung, et al  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2023
- **Electroretinographic findings in retinal vasculitis.** *The British journal of ophthalmology*  
Ghoraba, H. H., Matsumiya, W., Or, C., Khojasteh, H., Patel, P., Karaca, I., Regenold, J., Zaidi, M., Hwang, J., Lajevardi, S., Yavari, N., Than, N. T., Park, et al  
2022

- **C3 glomerulopathy associated with both hypertensive retinopathy and purtscher-like retinopathy.** *American journal of ophthalmology case reports*  
Zaidi, M., Mishra, K., Nguyen, H. V., Miller, P. P., Ghoraba, H., Karaca, I., Matsumiya, W., Nguyen, Q. D., Leung, L. B.  
2022; 27: 101683
- **Immunotherapy-induced retinopathy mimicking cancer associated retinopathy.** *American journal of ophthalmology case reports*  
Ghoraba, H., Or, C., Karaca, I., Mishra, K., Akhavanrezayat, A., Park, S., Than, N., Leung, L., Sanislo, S., Dong Nguyen, Q.  
2022; 26: 101449
- **Electroretinographic findings in retinal vasculitis**  
Ghoraba, H., Matsumiya, W., Patel, P., Or, C., Karaca, I., Regenold, J., Zaidi, M., Khojasteh, H., Hwang, J., Lajevardi, S., Yavari, N., Park, S., Akhavanrezayat, et al  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Correlated Changes in Retinal Thickness and Visuomotor Function in Asymptomatic Hydroxychloroquine Toxicity Patients**  
Leung, L., Hwang, B., Berneshawi, A., Goel, R., Tyson, T., Chang, R. T., Stone, L. S.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2022
- **Macular Edema and Serous Macular Detachment after a Standard Dose of Intracameral Cefuroxime** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Davila, J. R., Mishra, K., Leung, L.  
2021; 52 (11): 615-618
- **Comparison of Telemedicine Screening of Diabetic Retinopathy by Mydriatic Smartphone-Based vs Nonmydriatic Tabletop Camera-Based Fundus Imaging.** *Journal of vitreoretinal diseases*  
Han, Y. S., Pathipati, M., Pan, C., Leung, L., Blumenkranz, M. S., Myung, D., Toy, B. C.  
2021; 5 (3): 199-207
- **Retinal Diseases that Can Masquerade as Neurological Causes of Vision Loss.** *Current neurology and neuroscience reports*  
Padungkiatsagul, T., Leung, L., Moss, H. E.  
2020; 20 (11): 51
- **Assessment of Eye Disease and Visual Impairment in the Nursing Home Population Using Mobile Health Technology** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Lai, K. Y., Pathipati, M. P., Blumenkranz, M. S., Leung, L., Moshfeghi, D. M., Toy, B. C., Myung, D.  
2020; 51 (5): 262–70
- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment** *BRITISH JOURNAL OF OPHTHALMOLOGY*  
Grevin, M. A., Leng, T., Silva, R., Leung, L., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.  
2019; 103 (10): 161–64
- **Reductions in final visual acuity occur even within the first 3 days after a macula-off retinal detachment.** *The British journal of ophthalmology*  
Grevin, M. A., Leng, T., Silva, R. A., Leung, L. B., Karth, P. A., Moshfeghi, D. M., Sanislo, S. R., Schachar, I. H.  
2018
- **Progressive Reductions in Acuity Occur even within the First Three Days After a Macula-Off Retinal Detachment**  
Grevin, M., Leng, T., Leung, L., Moshfeghi, D. M., Sanislo, S., Silva, R., Schachar, I.  
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2018
- **Photodynamic Therapy-Induced Macular Hole** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Grevin, M. A., Leung, L. B.  
2018; 49 (4): 270–72
- **Comparison of Pneumatic Retinopexy and Scleral Buckle for Primary Rhegmatogenous Retinal Detachment Repair** *OPHTHALMIC SURGERY LASERS & IMAGING RETINA*  
Paulus, Y. M., Leung, L., Pilyugina, S., Blumenkranz, M. S.  
2017; 48 (11): 887–93
- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*  
Leung, L. B., Neal, J. W., Wakelee, H. A., Sequist, L. V., Marmor, M. F.

2015; 160 (4): 799-805 e1

- **Rapid Onset of Retinal Toxicity From High-Dose Hydroxychloroquine Given for Cancer Therapy.** *American journal of ophthalmology*  
Leung, L. B., Neal, J. W., Wakelee, H. A., Sequist, L. V., Marmor, M. F.  
2015; 160 (4): 799-805 e1
- **Restoration of Retinal Structure and Function after Selective Photocoagulation** *JOURNAL OF NEUROSCIENCE*  
Sher, A., Jones, B. W., Huie, P., Paulus, Y. M., Lavinsky, D., Leung, L. S., Nomoto, H., Beier, C., Marc, R. E., Palanker, D.  
2013; 33 (16): 6800-6808
- **EFFECT OF INTRAVITREAL TRIAMCINOLONE ACETONIDE ON HEALING OF RETINAL PHOTOCOAGULATION LESIONS** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Nomoto, H., Lavinsky, D., Paulus, Y. M., Leung, L., Dalal, R., Blumenkranz, M. S., Palanker, D.  
2013; 33 (1): 63-70
- **Therapeutic Window of Retinal Photocoagulation With Green (532-nm) and Yellow (577-nm) Lasers** *Annual Meeting of the Association-for-Research-in-Vision-and-Ophthalmology (ARVO)*  
Sramek, C. K., Leung, L. B., Paulus, Y. M., Palanker, D. V.  
SLACK INC.2012: 341-47
- **Macular infarction following intravitreal bevacizumab for treatment of central retinal vein occlusion.** *Ophthalmic surgery, lasers & imaging : the official journal of the International Society for Imaging in the Eye*  
Leung, L. B., Silva, R. A., Blumenkranz, M. S., Flynn, H. W., Sanislo, S. R.  
2012; 43: e73-9
- **Non-damaging Retinal Phototherapy: Dynamic Range of Heat Shock Protein Expression** *INVESTIGATIVE OPHTHALMOLOGY & VISUAL SCIENCE*  
Sramek, C., Mackanos, M., Spittler, R., Leung, L., Nomoto, H., Contag, C. H., Palanker, D.  
2011; 52 (3): 1780-1787
- **SELECTIVE RETINAL THERAPY WITH MICROSECOND EXPOSURES USING A CONTINUOUS LINE SCANNING LASER** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Paulus, Y. M., Jain, A., Nomoto, H., Sramek, C., Gariano, R. F., Andersen, D., Schuele, G., Leung, L., Leng, T., Palanker, D.  
2011; 31 (2): 380-388
- **Improving the therapeutic window of retinal photocoagulation by spatial and temporal modulation of the laser beam** *JOURNAL OF BIOMEDICAL OPTICS*  
Sramek, C., Leung, L., Leng, T., Brown, J., Paulus, Y. M., Schuele, G., Palanker, D.  
2011; 16 (2)
- **Critical appraisal of the clinical utility of the dexamethasone intravitreal implant (Ozurdex) for the treatment of macular edema related to branch retinal vein occlusion or central retinal vein occlusion.** *Clinical ophthalmology (Auckland, N.Z.)*  
Chan, A., Leung, L., Blumenkranz, M. S.  
2011; 5: 1043-1049
- **Adult Orbital Langerhans Cell Histiocytosis With Frontal Bone Involvement** *OPHTHALMIC PLASTIC AND RECONSTRUCTIVE SURGERY*  
Sokol, J. A., Kazim, M., Kelly, K. A., Lantos, G., Leung, L., Baron, E.  
2009; 25 (2): 157-158
- **Recent trends in the management of rhegmatogenous retinal detachment** *SURVEY OF OPHTHALMOLOGY*  
Sodhi, A., Leung, L., Do, D. V., Gower, E. W., Schein, O. D., Handa, J. T.  
2008; 53 (1): 50-67
- **A novel mutation in intron 11 of the COL2A1 gene in a patient with Type 1 Stickler syndrome** *RETINA-THE JOURNAL OF RETINAL AND VITREOUS DISEASES*  
Leung, L., Hyland, J. C., Young, A., Goldberg, M. F., Handa, J. T.  
2006; 26 (1): 106-109