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CLINICAL OFFICE (PRIMARY)

- **Stanford Byers Eye Institute**

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Bio

CLINICAL FOCUS

- Ophthalmology
- Glaucoma and cataract surgery
- Drug development and clinical trials
- Epidemiology

HONORS AND AWARDS

- Delta Omega, Johns Hopkins University (2009)
- Heed fellow, Heed Foundation (2018)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Lead Medical Director, Genentech, Early Clinical Development (2018 - present)

PROFESSIONAL EDUCATION

- Residency: Wilmer Eye Institute of Ophthalmology (2018) MD
- Fellowship: Stanford University Ophthalmology Fellowships (2020) CA
- Board Certification: Ophthalmology, American Board of Ophthalmology (2019)
- Internship: Greater Baltimore Medical Center Internal Medicine Residency (2015) MD
- Medical Education: National Taiwan University College of Medicine (2008) Taiwan
- PhD, Bloomberg School of Public Health, Johns Hopkins University , Epidemiology (2013)
- MPH, Bloomberg School of Public Health, Johns Hopkins University (2009)
- MD, National Taiwan University (2008)

Publications

PUBLICATIONS

- **A 3D Deep Learning System for Detecting Referable Glaucoma Using Full OCT Macular Cube Scans** *TRANSLATIONAL VISION SCIENCE & TECHNOLOGY*
Russakoff, D. B., Mannil, S. S., Oakley, J. D., Ran, A., Cheung, C. Y., Dasari, S., Riyazzuddin, M., Nagaraj, S., Rao, H. L., Chang, D., Chang, R. T. 2020; 9 (2)
- **Efficacy of Laser Peripheral Iridotomy for the Prevention of Angle Closure: A Randomized Controlled Trial**
He, M., Jiang, Y., Huang, S., Chang, D., Munoz, B., Aung, T., Foster, P. J., Friedman, D. S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Macular sensitivity endpoints in geographic atrophy secondary to age-related macular degeneration - exploratory analysis of two parallel randomized phase 3 trials**
Chang, D., Steffen, V., Gao, S. S., Briggs, J., Rabe, C., Honigberg, L., Sepah, Y., Ferrara, D.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **The incidence of acute angle-closure attack in primary angle closure suspect after pharmacologic mydriasis: A randomized controlled trial**
Friedman, D. S., Chang, D., Foster, P. J., Munoz, B., Aung, T., He, M.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2019
- **Laser peripheral iridotomy for the prevention of angle closure: a single-centre, randomised controlled trial.** *Lancet (London, England)*
He, M. n., Jiang, Y. n., Huang, S. n., Chang, D. S., Munoz, B. n., Aung, T. n., Foster, P. J., Friedman, D. S.
2019; 393 (10181): 1609–18
- **Central Scotoma After Liver Transplant.** *JAMA ophthalmology*
Crowell, E. L., Chang, D. S., Burkholder, B. M.
2019; 137 (2): 214–15
- **The Relationship Between Quantitative Pupillometry and Estimated Ganglion Cell Counts in Patients With Glaucoma.** *Journal of glaucoma*
Chang, D. S., Arora, K. n., Boland, M. V., Friedman, D. S.
2019; 28 (3): 238–42
- **Darkroom prone provocative testing in primary angle closure suspects and those with open angles.** *The British journal of ophthalmology*
Friedman, D. S., Chang, D. S., Jiang, Y. n., Huang, S. n., Kong, X. n., Munoz, B. n., Aung, T. n., Foster, P. J., He, M. n.
2019
- **Prevalence of eye disease and reading difficulty in an inner city elementary school population - Preliminary results from the Baltimore Reading and Eye Disease Study (BREDS)**
Collins, M., Mudie, L. I., Slavin, R., Corcoran, R., Owoeye, J., Chang, D., Repka, M., Friedman, D. S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
- **The relationship between quantitative pupillometry and estimated ganglion cell counts in patients with glaucoma**
Chang, D., Boland, M. V., Arora, K., Friedman, D. S.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2016
- **Results From a Modified Bleb Needling Procedure With Continuous Infusion Performed in the Operating Room.** *Journal of glaucoma*
Wilson, M. E., Gupta, P. n., Tran, K. V., Arora, K. S., Lee, C. H., Chang, D. S., Friedman, D. S.
2016; 25 (9): 720–26
- **The Association between Near Work Activities and Myopia in Children-A Systematic Review and Meta-Analysis.** *PloS one*
Huang, H. M., Chang, D. S., Wu, P. C.
2015; 10 (10): e0140419
- **Longitudinal changes of angle configuration in primary angle-closure suspects: the Zhongshan Angle-Closure Prevention Trial.** *Ophthalmology*
Jiang, Y. n., Chang, D. S., Zhu, H. n., Khawaja, A. P., Aung, T. n., Huang, S. n., Chen, Q. n., Munoz, B. n., Grossi, C. M., He, M. n., Friedman, D. S., Foster, P. J.
2014; 121 (9): 1699–1705

- **Assessment of a rapid method to determine approximate visual acuity in large surveys and other such settings.** *American journal of ophthalmology*
Arora, K. S., Chang, D. S., Supakontanasan, W. n., Lakkur, M. n., Friedman, D. S.
2014; 157 (6): 1315–21.e1
- **Electronic monitoring to assess adherence with once-daily glaucoma medications and risk factors for nonadherence: the automated dosing reminder study.** *JAMA ophthalmology*
Boland, M. V., Chang, D. S., Frazier, T. n., Plyler, R. n., Friedman, D. S.
2014; 132 (7): 838–44
- **Automated telecommunication-based reminders and adherence with once-daily glaucoma medication dosing: the automated dosing reminder study.** *JAMA ophthalmology*
Boland, M. V., Chang, D. S., Frazier, T. n., Plyler, R. n., Jefferys, J. L., Friedman, D. S.
2014; 132 (7): 845–50
- **Symmetry of the Pupillary Light Reflex and its Relationship to Retinal Nerve Fiber Layer Thickness and Visual Field Defect in Subjects With and Without Glaucoma**
Chang, D., Arora, K., Boland, M., Friedman, D.
ASSOC RESEARCH VISION OPHTHALMOLOGY INC.2013
- **Development and validation of an associative model for the detection of glaucoma using pupillography.** *American journal of ophthalmology*
Chang, D. S., Arora, K. S., Boland, M. V., Supakontanasan, W. n., Friedman, D. S.
2013; 156 (6): 1285–96.e2
- **Symmetry of the pupillary light reflex and its relationship to retinal nerve fiber layer thickness and visual field defect.** *Investigative ophthalmology & visual science*
Chang, D. S., Boland, M. V., Arora, K. S., Supakontanasan, W. n., Chen, B. B., Friedman, D. S.
2013; 54 (8): 5596–5601
- **Accuracy of pupil assessment for the detection of glaucoma: a systematic review and meta-analysis.** *Ophthalmology*
Chang, D. S., Xu, L. n., Boland, M. V., Friedman, D. S.
2013; 120 (11): 2217–25
- **Development and validation of a predictive model for nonadherence with once-daily glaucoma medications.** *Ophthalmology*
Chang, D. S., Friedman, D. S., Frazier, T. n., Plyler, R. n., Boland, M. V.
2013; 120 (7): 1396–1402
- **Early lens extraction compared to standard treatment in acute primary angle closure.** *The Cochrane database of systematic reviews*
Chang, D. S., Maul, E. n., Friedman, D. n.
2012; 11
- **Inequities in Cataract Surgery and Postsurgical Quality-of-Life Outcomes in Handan, China.** *Asia-Pacific journal of ophthalmology (Philadelphia, Pa.)*
Sun, L. n., Willes, J. R., Liang, Y. n., Chang, D. S., Duan, X. n., Yang, X. n., Wang, N. n., Friedman, D. S.
2012; 1 (3): 147–51
- **Immediate changes in intraocular pressure after laser peripheral iridotomy in primary angle-closure suspects.** *Ophthalmology*
Jiang, Y. n., Chang, D. S., Foster, P. J., He, M. n., Huang, S. n., Aung, T. n., Friedman, D. S.
2012; 119 (2): 283–88
- **Comparing approaches to screening for angle closure in older Chinese adults.** *Eye (London, England)*
Andrews, J., Chang, D. S., Jiang, Y., He, M., Foster, P. J., Munoz, B., Kashiwagi, K., Friedman, D. S.
2012; 26 (1): 96-100
- **Prevalence and characteristics of primary angle-closure diseases in a rural adult Chinese population: the Handan Eye Study.** *Investigative ophthalmology & visual science*
Liang, Y. n., Friedman, D. S., Zhou, Q. n., Yang, X. H., Sun, L. P., Guo, L. n., Chang, D. S., Lian, L. n., Wang, N. L.
2011; 52 (12): 8672–79
- **Prevalence of primary open angle glaucoma in a rural adult Chinese population: the Handan eye study.** *Investigative ophthalmology & visual science*

Liang, Y. B., Friedman, D. S., Zhou, Q. n., Yang, X. n., Sun, L. P., Guo, L. X., Tao, Q. S., Chang, D. S., Wang, N. L.
2011; 52 (11): 8250–57

- **A population-based assessment of 24-hour intraocular pressure among subjects with primary open-angle glaucoma: the handan eye study.** *Investigative ophthalmology & visual science*

Wang, N. L., Friedman, D. S., Zhou, Q. n., Guo, L. n., Zhu, D. n., Peng, Y. n., Chang, D. n., Sun, L. P., Liang, Y. B.
2011; 52 (11): 7817–21

- **Choroidal thickness measured by spectral domain optical coherence tomography: factors affecting thickness in glaucoma patients.** *Ophthalmology*

Maul, E. A., Friedman, D. S., Chang, D. S., Boland, M. V., Ramulu, P. Y., Jampel, H. D., Quigley, H. A.
2011; 118 (8): 1571–79

- **Single versus sequential testing with scanning peripheral anterior chamber depth analyser, IOLMaster and anterior segment optical coherence tomography for the detection of narrow angles.** *The British journal of ophthalmology*

Chang, D. S., Sakata, L. M., Aung, T. n., He, M. G., Lavanya, R. n., Kashiwagi, K. n., Friedman, D. S.
2011; 95 (10): 1410–14