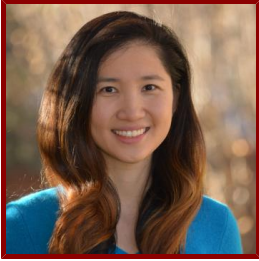


Stanford



Lucie Y. Guo

- Clinical Scholar, Ophthalmology
- Fellow in Graduate Medical Education

Bio

CLINICAL FOCUS

- Ophthalmology

INSTITUTE AFFILIATIONS

- Clinical Scholar, Ophthalmology
- Member, Maternal & Child Health Research Institute (MCHRI)

HONORS AND AWARDS

- Stanford-Coulter Translational Research Award, Stanford Bioengineering (2021)
- VitreoRetinal Surgery Foundation Research Award, VRSF (2021)
- Career Starter Grant, Knights Templar Eye Foundation (2020)
- Appointee, NEI T32 Vision Postdoctoral Training Program, Stanford University (2019)
- Alpha Omega Alpha (AOA) Medical Honor Society, University of Pennsylvania (2018)
- Saul Winegrad Award for Outstanding PhD Dissertation, University of Pennsylvania (2018)
- Charles A. Oliver Memorial Prize, Scheie Eye Institute, University of Pennsylvania (2018)
- Jeffrey Berger Medical Student Award, Scheie Eye Institute, University of Pennsylvania (2018)
- P. Leslie Dutton Award for Best Publication in Biochemistry and Biophysics, University of Pennsylvania (2015)
- Stuart L. Fine Ophthalmology Medical Student Research Prize, Scheie Eye Institute, University of Pennsylvania (2014)
- NIH Individual NRSA MD/PhD F30 Fellowship, NCI (2014)
- Appointee, Structural Biology and Molecular Biophysics T32 Training Grant, University of Pennsylvania (2013)
- Thomas Temple Hoopes Prize, Harvard University (2010)

PROFESSIONAL EDUCATION

- Residency: Stanford University Ophthalmology Residency (2023) CA
- Internship: Santa Clara Valley Medical Center Internal Medicine Residency (2019) CA
- Medical Education: Perelman School of Medicine University of Pennsylvania (2018) PA
- AB, Harvard University , Biochemical Sciences (2010)
- PhD, University of Pennsylvania , Biochemistry and Molecular Biophysics (2018)
- MD, Perelman School of Medicine, University of Pennsylvania , Medicine (2018)

Research & Scholarship

LAB AFFILIATIONS

- Stanley Qi (7/1/2019)

Publications

PUBLICATIONS

- **Scalable biological signal recording in mammalian cells using Cas12a base editors.** *Nature chemical biology*
Kempton, H. R., Love, K. S., Guo, L. Y., Qi, L. S.
2022
- **Multiplexed genome regulation in vivo with hyper-efficient Cas12a.** *Nature cell biology*
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- **A buoyant mass in the brain: Intraventricular migration of silicone oil.** *American journal of ophthalmology case reports*
Guo, L. Y., Jamiolkowski, R. M., Hassan, M., Leng, T.
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- **Inheritance of CENP-A Nucleosomes during DNA Replication Requires HJURP** *DEVELOPMENTAL CELL*
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2018; 47 (3): 348-+
- **Centromeres are maintained by fastening CENP-A to DNA and directing an arginine anchor-dependent nucleosome transition.** *Nature communications*
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- **A Dual Inhibitory Mechanism Sufficient to Maintain Cell-Cycle-Restricted CENP-A Assembly.** *Molecular cell*
Stankovic, A., Guo, L. Y., Mata, J. F., Bodor, D. L., Cao, X. J., Bailey, A. O., Shabanowitz, J., Hunt, D. F., Garcia, B. A., Black, B. E., Jansen, L. E.
2017; 65 (2): 231-246
- **The CENP-A nucleosome bound by CENP-C and CENP-N is the fundamental unit for maintaining centromere identity.**
Guo, L. Y., Zandarashvili, L., McKinley, K. L., Sekulic, N., Fachinetti, D., Cleveland, D. W., Cheeseman, I. M., Black, B. E.
AMER SOC CELL BIOLOGY.2016
- **The CENP-L-N Complex Forms a Critical Node in an Integrated Meshwork of Interactions at the Centromere-Kinetochore Interface.** *Molecular cell*
McKinley, K. L., Sekulic, N., Guo, L. Y., Tsinman, T., Black, B. E., Cheeseman, I. M.
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- **Chromosomes. CENP-C reshapes and stabilizes CENP-A nucleosomes at the centromere.** *Science (New York, N.Y.)*
Falk, S. J., Guo, L. Y., Sekulic, N., Smoak, E. M., Mani, T., Logsdon, G. A., Gupta, K., Jansen, L. E., Van Duyne, G. D., Vinogradov, S. A., Lampson, M. A., Black, B. E.
2015; 348 (6235): 699-703
- **Both tails and the centromere targeting domain of CENP-A are required for centromere establishment.** *The Journal of cell biology*
Logsdon, G. A., Barrey, E. J., Bassett, E. A., DeNizio, J. E., Guo, L. Y., Panchenko, T., Dawicki-McKenna, J. M., Heun, P., Black, B. E.
2015; 208 (5): 521-31
- **Iron increases APP translation and amyloid-beta production in the retina.** *Experimental eye research*
Guo, L. Y., Alekseev, O., Li, Y., Song, Y., Dunaief, J. L.
2014; 129: 31-7
- **CENP-C Locks the CENP-A Nucleosome into a Conventionally Shaped Octameric Histone Core that is Incompletely Wrapped with DNA**
Falk, S. J., Sekulic, N., Guo, L. Y., Mani, T., Gupta, K., Van Duyne, G., Vinogradov, S., Black, B. E.
AMER SOC CELL BIOLOGY.2013

- **Aph-1 associates directly with full-length and C-terminal fragments of gamma-secretase substrates.** *The Journal of biological chemistry*
Chen, A. C., Guo, L. Y., Ostaszewski, B. L., Selkoe, D. J., LaVoie, M. J.
2010; 285 (15): 11378-91
- **Analysis of methylation-sensitive transcriptome identifies GADD45a as a frequently methylated gene in breast cancer.** *Oncogene*
Wang, W., Huper, G., Guo, Y., Murphy, S. K., Olson, J. A., Marks, J. R.
2005; 24 (16): 2705-14