

John Ming Lu

- MD Student, expected graduation Spring 2027
- Ph.D. Student in Stem Cell Biology and Regenerative Medicine, admitted Autumn 2022
- MSTP Student

Publications

PUBLICATIONS

- **Creeping fat-derived mechanosensitive fibroblasts drive intestinal fibrosis in Crohn's disease strictures.** *Cell*
Bauer-Rowe, K. E., Pham, B., Griffin, M., Liang, N. E., Kim, A., Lu, J. M., Januszzyk, M., Guo, J. L., De Santis, S., Xing, Y., Prystupa, A., Sidhu, I., Suh, et al
2025
- **Histological signatures map anti-fibrotic factors in mouse and human lungs.** *Nature*
Guo, J. L., Griffin, M., Yoon, J. K., Lopez, D. M., Zhu, Y., Lu, J. M., Mikos, G., Parker, J. B., Mascharak, S., Brenac, C., Guardino, N. J., Abbas, D. B., Li, et al
2025
- **Inhibiting mechanotransduction prevents scarring and yields regeneration in a large animal model.** *Science translational medicine*
Mascharak, S., Griffin, M., Talbott, H. E., Guo, J. L., Parker, J., Morgan, A. G., Valencia, C., Kuhnert, M. M., Li, D. J., Liang, N. E., Kratofil, R. M., Daccache, J. A., Sidhu, et al
2025; 17 (786): eadt6387
- **Two structural switches in HIV-1 capsid regulate capsid curvature and host factor binding.** *Proceedings of the National Academy of Sciences of the United States of America*
Stacey, J. C., Tan, A., Lu, J. M., James, L. C., Dick, R. A., Briggs, J. A.
2023; 120 (16): e2220557120
- **Structures and distributions of SARS-CoV-2 spike proteins on intact virions** *NATURE*
Ke, Z., Oton, J., Qu, K., Cortese, M., Zila, V., McKeane, L., Nakane, T., Zivanov, J., Neufeldt, C. J., Cerikan, B., Lu, J. M., Peukes, J., Xiong, et al
2020
- **Securitization as a means to pay for cell and gene therapies for orphan diseases: a simulation study** *GENE THERAPY*
Lu, J. M., Cherla, A. J., Carter, A. W., Mossialos, E. A.
2026
- **Disruption of fibroblast MYD88 signaling promotes antitumor immunity in pancreatic ductal adenocarcinoma.** *Cell reports*
Korah, M., Reveron-Thornton, R. F., Fallah, M., Xie, P. Y., Gonçalves, A., Guo, C., Agolia, J. P., Delitto, A. E., Flojo, R. A., Reddy, B., Yip, K. A., Lu, J. M., Tomasso, et al
2025; 44 (10): 116347
- **Multi-omic analysis reveals retinoic acid molecular drivers for dermal fibrosis and regenerative repair in the skin.** *Cell stem cell*
Griffin, M., Guo, J. L., Parker, J. B., Kuhnert, M., Li, D. J., Valencia, C., Morgan, A., Downer, M., Cotterell, A. C., Lu, J. M., Dilorio, S., Bauer-Rowe Ramos, K. E., Januszzyk, et al
2025
- **Growth arrest specific-6 and angiotoxin receptor-like signaling drive oral regenerative wound repair.** *Science translational medicine*
Griffin, M. F., Cook, J., Morgan, A., Boffelli, D., Downer, M., Spielman, A. F., Guardino, N. J., Guo, J. L., Parker, J. B., Januszzyk, M., Valencia, C., Kuhnert, M., Lu, et al
2025; 17 (805): eadk2101

- **Cardiac Fibroblast Atlas Reveals Myofibroblast Activation After Myocardial Infarction**
Lu, J., Januszyk, M., Longaker, M.
LIPPINCOTT WILLIAMS & WILKINS.2024
- **Dissecting the Role of Perivascular Cells to Fibroblast Transition Through Single-Nucleus Transcriptomics in Skin Fibrosis**
Tomasso, A., Griffin, M., Parker, J. B. L., Guo, J. L., Lu, J., Berry, C., Wan, D. C., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2024: S397
- **A Comprehensive Meta-Analysis of the Human Wound Microenvironment**
Jing, S. L., Lu, J., Korah, M., Parker, J. B. L., Berry, C., Wan, D. C., Januszyk, M., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2024: S377
- **Utilizing Single Cell Transcriptomics to Delineate Cancer Associated Fibroblasts in Sarcomas**
Korah, M., Lu, J., Jing, S. L., Berry, C., Wan, D. C., Norton, J. A., Delitto, D., Januszyk, M., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2024: S460-S461
- **Defining the Tumor Microenvironment Across Thousands of Tumors**
Lu, J., Korah, M., Jing, S. L., Guo, J. L., Berry, C., Wan, D. C., Norton, J. A., Delitto, D., Januszyk, M., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2024: S440-S441
- **Understanding the Foreign Body Response via Single-Cell Meta-Analysis.** *Biology*
Liang, N. E., Parker, J. B., Lu, J. M., Januszyk, M., Wan, D. C., Griffin, M., Longaker, M. T.
2024; 13 (7)
- **Meta-Analysis of Single-Cell Transcriptomics Data of Cardiac Fibroblasts Reveals Temporal Heterogeneity of Cardiac Fibroblast Response after MI**
Lu, J., Januszyk, M., Griffin, M., Guo, J. L., Wan, D. C., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2023: S68
- **Quantitative Analysis of the Collagen Matrix Ultrastructure in Mouse Hearts after Myocardial Infarction**
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LIPPINCOTT WILLIAMS & WILKINS.2023: S13-S14
- **Multi-Modal Analysis of Cell Populations and Architectural States Mediating the Progression and Resolution of Pulmonary Fibrosis**
Guo, J. L., Griffin, M., Guardino, N. J., Abbas, D., Lu, J., Spielman, A., Lintel, H., Cotterell, A. C., Wan, D. C., Longaker, M. T.
LIPPINCOTT WILLIAMS & WILKINS.2022: S82
- **Research-driven schistosomiasis mass drug administration campaign in four Tanzanian villages along Lake Victoria**
Lu, J., Reinhart, P., Kiknadze, N., Kawira, E., Magatti, N., Toole, D., Ariely, S.
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