



## Jason Guo

Instructor, Surgery - Plastic & Reconstructive Surgery

### Bio

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#### ACADEMIC APPOINTMENTS

- Instructor, Surgery - Plastic & Reconstructive Surgery

### Publications

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#### PUBLICATIONS

- **Fibroblasts of disparate developmental origins harbor anatomically variant scarring potential** *Cell*  
Griffin, M., Li, D., Chen, K., Parker, J., Guo, J., Kim, S., Kraft, K., Downer, M., Morgan, A., Kuhnert, M., Jing, S., Yao, H., Valencia, et al  
2026
- **Call for Special Issue Papers: Artificial Intelligence in Tissue Engineering and Biology.** *Tissue engineering. Part A*  
Guo, J. L., Januszyk, M., Longaker, M. T.  
2023
- **The effects of mechanical force on fibroblast behavior in cutaneous injury.** *Frontiers in surgery*  
Berry, C. E., Downer, M., Morgan, A. G., Griffin, M., Liang, N. E., Kameni, L., Laufey Parker, J. B., Guo, J., Longaker, M. T., Wan, D. C.  
2023; 10: 1167067
- **Bioprinted Hydrogels for Fibrosis and Wound Healing: Treatment and Modeling.** *Gels (Basel, Switzerland)*  
Guo, J. L., Longaker, M. T.  
2022; 9 (1)
- **Topical vanadate improves tensile strength and alters collagen organization of excisional wounds in a mouse model.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*  
Lintel, H., Abbas, D. B., Mackay, D. J., Griffin, M., Lavin, C. V., Berry, C. E., Guardino, N. J., Guo, J. L., Momeni, A., Mackay, D. R., Longaker, M. T., Wan, D. C.  
2022
- **Editorial for Special Issue on Machine Learning in Tissue Engineering.** *Tissue engineering. Part A*  
Guo, J. L., Kavraki, L. E., Mikos, A. G.  
2022
- **Adipose-Derived Stromal Cell-based Therapies for Radiation-Induced Fibrosis.** *Advances in wound care*  
Berry, C., Abbas, D. B., Lintel, H., Churukian, A., Griffin, M., Guo, J., Cotterell, A. C., Parker, J., Downer, M. A., Longaker, M. T., Wan, D. C.  
2022
- **Machine Learning-Based Desmoplastic Signatures Predict Patient Outcomes in Pancreatic Ductal Adenocarcinoma**  
Guo, J. L., Mascharak, S., Foster, D. S., Guardino, N. J., Griffin, M., Miller, E., Raghavan, S., Longacre, T. A., Norton, J. A., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S53-S54
- **Inhibition of Yes-Associated Protein Promotes Skin Wound Regeneration in Large Animals**

- Januszyk, M., Talbott, H. E., Griffin, M., Guardino, N., Spielman, A., Guo, J. L., Mascharak, S., Wan, D. C., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S196
- **Adipocytes the Forgotten Culprit in Skin Fibrosis: Exploring the Mechanism of Fat Driven Skin Fibrosis**  
Griffin, M., Guardino, N., Spielman, A. F., Mascharak, S., Parker, J. B. L., Guo, J. L., Abbas, D., Wan, D. C., Bauer-Rowe, K. E., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S199
  - **Adipocyte Progenitor Cells Embedded in Collagen Gels Accelerate Bone Formation in a Murine Calvarial Critical Defect Model**  
Cotterell, A. C., Griffin, M., Guardino, N., Spielman, A. F., Lintel, H., Abbas, D., Guo, J. L., Parker, J. B. L., Wan, D. C., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S198-S199
  - **Transdermal Deferoxamine Improves Acute Wound Healing in Chronic Irradiated Skin in a Mouse Model**  
Lintel, H., Abbas, D., Lavin, C., Griffin, M., Guo, J. L., Guardino, N., Churukian, A., Chen, K., Longaker, M. T., Wan, D. C.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S211-S212
  - **Fibroblast Subpopulations Are Modified with Fat Grafting to Treat Radiation-Induced Fibrosis**  
Abbas, D. B., Guo, J. L., Griffin, M., Lintel, H., Guardino, N. J., Berry, C. E., Pu, A., Longaker, M. T., Wan, D. C.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S202-S203
  - **Semantics Matter: Cheiloschisis Web-Based Information Differs from Cleft Lip**  
Abbas, D. B., Lintel, H., Guardino, N. J., Griffin, M., Guo, J. L., Cotterell, A. C., Spielman, A. F., Parker, J. B. L., Longaker, M. T., Wan, D. C.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S209
  - **Where There Is Fat There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**  
Bauer-Rowe, K. E., Kim, A., Griffin, M., Foster, D., Guardino, N., Guo, J. L., Talbott, H. E., Norton, J. A., Hyun, J. S., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S59-S60
  - **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
  - **Reversal of Senescence in Skin-derived Fibroblasts Using Exogenous Mechanical Stimulation**  
Guo, J. L., Griffin, M., Guardino, N. J., Chen, K., Cotterell, A. C., Abbas, D., Spielman, A., Lintel, H., Wan, D. C., Longaker, M. T.  
LIPPINCOTT WILLIAMS & WILKINS.2022: S70
  - **Multiomic analysis reveals conservation of cancer-associated fibroblast phenotypes across species and tissue of origin.** *Cancer cell*  
Foster, D. S., Januszyk, M., Delitto, D., Yost, K. E., Griffin, M., Guo, J., Guardino, N., Delitto, A. E., Chinta, M., Burcham, A. R., Nguyen, A. T., Bauer-Rowe, K. E., Titan, et al  
2022
  - **Machine Learning in Tissue Engineering.** *Tissue engineering. Part A*  
Guo, J. L., Januszyk, M., Longaker, M. T.  
2022
  - **Transdermal deferoxamine administration improves excisional wound healing in chronically irradiated murine skin.** *Journal of translational medicine*  
Lintel, H., Abbas, D. B., Lavin, C. V., Griffin, M., Guo, J. L., Guardino, N., Churukian, A., Gurtner, G. C., Momeni, A., Longaker, M. T., Wan, D. C.  
2022; 20 (1): 274
  - **Mechanical Stimulation Reverses Pro-Fibrotic Transcriptional States in Senescent Fibroblasts**  
Guo, J. L., Griffin, M., Guardino, N., Chen, K., Gurtner, G. C., Longaker, M. T.  
WILEY.2022: A33-A34
  - **Transdermal Deferoxamine Enhances Wound Healing In Chronically Irradiated Skin In Mice**  
Lintel, H., Abbas, D. B., Lavin, C. V., Griffin, M., Guardino, N., Guo, J. L., Spielman, A. F., Gurtner, G. C., Longaker, M. T., Wan, D.  
WILEY.2022: A29-A30
  - **Mechanical Stimulation Reverses Pro-Fibrotic Transcriptional States in Senescent Fibroblasts**  
Guo, J. L., Griffin, M., Guardino, N., Chen, K., Gurtner, G. C., Longaker, M. T.  
WILEY.2022: A14-A16

- **Adipocytes Transition To Pro-Fibrotic Fibroblasts And Contribute To Muscle Fibrosis Following Nerve Injury**

Spielman, A. F., Griffin, M., Guardino, N., desJardins-Park, H. E., Bauer-Rowe, K. E., Guo, J. L., Parker, J., Abbas, D. B., Wan, D., Longaker, M. T.  
WILEY.2022: A3-A4