Stanford



Dr. Michael T. Longaker

Deane P. and Louise Mitchell Professor in the School of Medicine and Professor, by courtesy, of Materials Science and Engineering

Surgery - Plastic & Reconstructive Surgery

CLINICAL OFFICE (PRIMARY)

- **Advanced Wound Care Center**

  450 Broadway St Ste B17

  Pavilion B 1st Fl MC 6216

  Redwood City, CA 94063

  Tel (650) 721-8800 **Fax** (650) 721-8638

ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Virginia Ford - Sr. Administrator

  Email vmford@stanford.edu

  Tel 650-736-1707

Bio

CLINICAL FOCUS

- Plastic Surgery
- Plastic Surgery, Pediatric

ACADEMIC APPOINTMENTS

- Professor, Surgery - Plastic & Reconstructive Surgery
- Professor (By courtesy), Materials Science and Engineering
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Member, Stanford Diabetes Research Center, (2018- present)

PROFESSIONAL EDUCATION

- Residency: UCSF Dept of General Surgery (1993) CA
- Internship: UCSF Dept of General Surgery (1985) CA
- Board Certification: Plastic Surgery, American Board of Plastic Surgery (2010)
- Fellowship: UCLA Dept of Plastic Surgery (1996) CA
- Residency: New York University Plastic Surgery Residency (1995) NY
- Medical Education: Harvard Medical School (1984) MA

- Board Recertification, American Board of Sugery , General Sugery (2004)
- Board Certification, American Board of Plastic Surgery , Plastic Surgery (1998)
- Board Recertification, American Board of Plastic Surgery , Plastic Surgery and Craniomaxillofacial (2009)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Longaker earned his undergraduate degree at Michigan State University (he played varsity basketball & was a member of the 1979 NCAA Men's Basketball Championship Team) and his medical degree at Harvard Medical School. He completed his general surgical residency at the University of California, San Francisco, a residency in Plastic Surgery at NYU & a craniofacial fellowship at UCLA. In December 2003, Dr. Longaker earned his M.B.A. from University of California Berkeley and Columbia University, in the inaugural class of their combined program and was elected into Columbia University's Beta Gamma Sigma Honor Society.

Dr. Longaker's research experience focuses on wound repair and fibrosis. His research has opened up two fields: fibroblasts heterogeneity/regeneration during wound repair and skeletal stem cells. He made the discovery that embryos heal without a scar early in gestation and transition to scarring late in gestation a while as a post-doc at UCSF. His laboratory identified the fibroblast lineage responsible for scarring in mouse dorsal wounds (Science, 2015). Most recently, he achieved true regeneration without scarring during adult mouse wound healing and has worked out mechanisms through which this occurs (Science, 2015; Science, 2021; Cell Stem Cell, 2022; Cell Stem Cell, 2022; Science Translational Medicine, 2022; Cell Stem Cell, 2023; Science Translational Medicine, 2024; Cell Stem Cell, 2025; Science Translational Medicine, 2025; Cell, 2026).

Beyond wound healing, he is also an international leader in tissue and organ fibrosis, publishing work in a range of organ systems: foreign body response (Nature Biomedical Engineering, 2025), lung (Nature, 2025), intra-abdominal adhesions (Nature Communications, 2020; Nature Communications, 2021; Science Translational Medicine, 2025), and Crohn's disease (Cell, 2025).

His laboratory identified mouse skeletal stem cells in 2015 (Cell) and human skeletal stem cells in 2018 (Cell). He would show how skeletal stem cells are expanded during fracture repair (PNAS, 2015), are impacted by diabetes (Science Translational Medicine, 2017) and can be guided toward cartilage regeneration following microfracture surgery (Nature Medicine, 2020). He has shown that skeletal stem cells in the jaw can be activated by mechanical forces and revert back to a cranial neural crest fate during jaw regeneration (Nature, 2018). Most recently, he has shown that osteoporotic fractures can be rescued with local therapy to heal in a youthful like manner (Nature, 2021). He showed that sexual dimorphism in the skeletal stem cell (Nat Comms, 2022), the impact of skeletal diversity on skeletal development (Cell Stem Cell, 2025), and regional diversity in skeletal stem cells (Nat Comms, 2026).

The final area his lab works in is cancer-associated fibroblasts (Cancer Cell, 2022), microarchitecture of desmoplasia surrounding pancreatic cancer (Cell Reports Med, 2024), and the tumor microenvironment in mouse and man (Nature, 2026).

He is a member of the Association for Academic Surgeons, the Society of University Surgeons, American Surgical Association and American Society for Clinical Investigation, the Association of American Physicians, the National Academy of Medicine, and the National Academy of Science. Dr. Longaker is the recipient of the prestigious Flance-Karl Award and the Medallion for Scientific Achievement from the American Surgical Association, the Lifetime Achievement Award from the Society of University of Surgeons, the recipient of the American College of Surgeons, and Surgical Forum dedication in 2015. He served as Treasurer and subsequently President for the Society of University Surgeons. He has an H-index of 161 and published over 1400 publications.

He is an inventor on over 200 issued or applied for patents and patent applications. He has also funded several venture-backed start-up companies.

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Khristian Bauer-Rowe, Mia Fowler, Kelly Huang, Serena Jing, Caroline Yao

Doctoral Dissertation Reader (AC)

Franco Felix, Peter Xie

Postdoctoral Faculty Sponsor

Sanja Bojic, Chuner Guo, Maria Korah, Dayan Li, Antonio Tomasso

Doctoral Dissertation Advisor (AC)

Khristian Bauer-Rowe, Sarah DiIorio, John Lu, Helen Wang

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Stem Cell Biology and Regenerative Medicine (PhD Program)

Publications

PUBLICATIONS

- **Protocol to study bleomycin-induced skin fibrosis in mice.** *STAR protocols*
  Griffin, M. F., Morgan, A. G., Reddy Ailury, N. A., Valencia, C., Parker, J., Guo, J. L., Li, D. J., Tran, P., Gong, M., Wan, D. C., Longaker, M. T.
  2026; 7 (4): 104960

- **Biomimetic Nanoparticles and Their Cellular Effects on Dermal Fibrosis and Tissue Regeneration after Full Thickness Thermal Injury on Murine Skin**
  Shibale, P., Bojic, S., Lavin, C., Kendig, C., Nemani, S., Morgan-Joseph, A., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2026: S277

- **Comparative Genomic Analysis of Radiation Induced Skin Fibrosis Across Species**
  Shibale, P., Bojic, S., Parker, J., Lavin, C., Kendig, C., Nemani, S. V., Morgan-Joseph, A., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2026: S283-S284

- **Single-Cell Transcriptomic Meta-Analysis Reveals Shared and Distinct Molecular Programs Across Human Sarcomas**
  Reddy, B., Korah, M., Flojo, R., Agolia, J., Foster, D., Longaker, M. T., Delitto, D.
  LIPPINCOTT WILLIAMS & WILKINS.2026: S326-S327

- **Radiation-Induced Vascular Fibrosis and Endothelial Dysfunction Is Driven by Ferroptosis and Fibrotic Macrophage Sub-Populations**
  Kendig, C., Hou, J., Parker, J. B. L., Shibale, P., Lavin, C., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2026: S291

- **Regional diversity of cranial skeletal stem cells governs bone morphogenetic protein-2 mediated bone regeneration.** *Nature communications*
  Takematsu, E., Lachmansingh, R. N., Johnston, K., Hou, S., Bailey, E., Wang, Y., Zhao, L., Hoover, M., Nguyen, H. T., Parmar, K. M., Talbott, H., Longaker, M. T., Chan, et al
  2026; 17 (1)

- **Ubiquitin-like proteins NEDD8 and SUMO2 control epithelial homeostasis, regeneration, and inflammation.** *Science (New York, N.Y.)*
  Winge, M. C., Jackrazi, L. V., Porter, D. F., Srinivasan, S., Lopez-Pajares, V., Li, D. J., Pham, B., Houser, A., Cha, S. H., Meyers, R. M., Ko, L. A., Ducoli, L., Miao, et al
  2026; 392 (6805): eaeb3900

- **Protocol to interrogate the role of creeping fat and mechanical tension in Crohn's disease using a surgical mouse model of intestinal fibrosis.** *STAR protocols*
  Suh, E. J., Pham, B., Bauer-Rowe, K. E., Kim, A., Liang, N. E., Park, J. Y., Foster, D. S., Norton, J. A., Delitto, D., Longaker, M. T., Hyun, J. S.
  2026; 7 (2): 104613

- **Deferoxamine Improves Radiation-Induced Peripheral Neuropathy.** *Journal of cellular and molecular medicine*
  Lavin, C. V., Fazilat, A. Z., Kendig, C. B., Shibale, P., Huang, K. X., Nemani, S., Parker, J. B., Valencia, C., Ailury, N. A., Griffin, M., Momeni, A., Longaker, M. T., Wan, et al
  2026; 30 (11): e71227

- **Extracellular vesicles from SB431542-conditioned human adipose-derived stem cells enhance in vitro and in vivo osteogenesis via a miR-20a-5p-BAMBI-BMP/canonical Wnt signaling axis.** *Stem cells translational medicine*
  Huber, J., Longaker, M. T., Quarto, N.
  2026; 15 (6)

- **Metabolic Effects on Wound Healing.** *Advances in wound care*
  Yao, H., Griffin, M. F., Jing, S. L., Kawamoto-Duran, D. S., Tarter, J. G., Liang, N. E., Longaker, M. T., Wan, D. C.
  2026: 21621918261438987

- **A single-cell tumor atlas defines robust pathway and gene signatures enabling cancer cell-line fidelity assessment.**
  Reveron-Thornton, R. F., Guo, C., Agolia, J. P., Korah, M., Xie, P., Delitto, A., Goncalves, A., Tabora, A., Reddy, B., Bobst, W., Kirane, A. R., Dua, M., Visser, et al
  AMER ASSOC CANCER RESEARCH.2026

- **Integrated multiomic atlas of pancreatic solid pseudopapillary neoplasms suggests acinar cells as a potential cell-of-origin**
  Reddy, B., Korah, M., Agolia, J. P., Reveron-Thornton, R., Lam, M., Foster, D., Longaker, M. T., Delitto, D.
  AMER ASSOC CANCER RESEARCH.2026

- **Mapping lymphoid responses to tumor growth and lymph node metastasis: multiomic spatial analysis of pancreatic ductal adenocarcinoma reveals tertiary lymph node structures.**
  Agolia, J. P., Guo, C., Reveron-Thornton, R. F., Li, X., Korah, M., Tabora, A., Lee, B., Kirane, A. R., Poultsides, G., Visser, B., Charville, G. W., Longaker, M. T., Foster, et al
  AMER ASSOC CANCER RESEARCH.2026

- **Multidimensional transcriptomic alas of recurrent uterine leiomyosarcomas uncovers stem-like hormonal cells with high drug sensitivity and improved patient outcomes.**
  Korah, M., Agolia, J. P., Reddy, B., Flojo, R. A., Goncalves, A., Wang, L., Reveron-Thornton, R. F., Guo, C., Sun, B., Kirane, A. R., Poultsides, G., Foster, D., Huang, et al
  AMER ASSOC CANCER RESEARCH.2026

- **A MUC1-overexpressing epithelial population is associated with CDH1 loss-of-function gastric adenocarcinoma.**
  Guo, C., Reveron-Thornton, R. F., Li, X., Agolia, J. P., Korah, M., Xie, P., Goncalves, A., Tabora, A., Xia, L., Barakat, N., Poultsides, G., Lee, B., Kirane, et al
  AMER ASSOC CANCER RESEARCH.2026

- **A Translational Surgical Porcine Model for Postoperative Intra-Abdominal Adhesion Formation.** *Journal of visualized experiments : JoVE*
  Reveron-Thornton, R. F., Hsu, C. H., Bobst, W., Guo, J. L., Meany, E. L., M Williams, C., Berry, C., Fallah, M., Korah, M., P Agolia, J., Guo, C., Fell, G. L., Hyun, et al
  2026

- **FGF2 alters the calvarial suture niche homeostasis shifting skeletal stem cell/progenitors toward an osteo-angiogenic coupling fate.** *Stem cells translational medicine*
  Quarto, N., Menon, S., Guo, J. L., Salhotra, A., Longaker, M. T.
  2026; 15 (3)

- **A Pan-Cancer Single-Cell Atlas to Evaluate Tumor Identity, Cell Line Concordance, and Dependency Mapping.** *bioRxiv : the preprint server for biology*
  Reveron-Thornton, R. F., Agolia, J. P., Guo, C., Korah, M., Hsu, C. H., Xie, P. Y., Flojo, R. A., Delitto, A. E., Gonçalves, A., Tabora, A. D., Januszyk, M., Sanchez, V. E., Nee, et al
  2026

- **Dental, Oral and Craniofacial Tissue Regeneration Consortium (DOCTRC): An infrastructure for accelerating regenerative therapies from discovery to clinical impact.** *Journal of clinical and translational science*
  Nguyen, V. X., Yoshida, M., Samuels, B. D., Giannobile, W., Healy, K. E., Jamieson, M., Lane, N., Longaker, M. T., Mooney, D. J., Sfeir, C. S., Sinha, U. K., Wagner, W. R., Lotz, et al
  2026; 10 (1): e38

- **Mouse Models of Muscle Fibrosis: Mechanisms, Methods, and Applications.** *Biomedicines*
  DiIorio, S. E., Fowler, M. J., Young, B., Griffin, M. F., Longaker, M. T.
  2026; 14 (2)

- **Fibroblasts of disparate developmental origins harbor anatomically variant scarring potential.** *Cell*
  Griffin, M. F., Li, D. J., Chen, K., Parker, J. B., Guo, J. L., Kim, S., Kraft, K., Downer, M., Morgan, A. G., Kuhnert, M. M., Jing, S. L., Yao, H., Valencia, et al
  2026

- **Engineered mucus-tethering bispecific nanobodies enhance mucosal immunity against respiratory pathogens.** *Nature nanotechnology*
  Zhao, L., O'Donnell, K. L., Dubey, M., Wang, Y., Martinez, N. R., Zhang, Y., Steininger, H. M., Ma, C., Mallajosyula, V., Lee, L. L., Lachmansingh, R. N., Stavitsky, S., Takematsu, et al
  2026

- **NFAT mediates pro-tumorigenic inflammation in cancer-associated fibroblasts in pancreatic ductal adenocarcinoma.** *Cell reports*
  Guo, C., Griffin, M. F., Morgan, A. G., Foster, D. S., Parker, J. B., Januszyk, M., Lindsay, H. G., Guardino, N. J., Reveron-Thornton, R., Xie, P. Y., Valencia, C., Kuhnert, M. M., Korah, et al
  2026; 45 (1): 116849

- **Protocol for orthotopic implantation of a collagen hydrogel to model pancreatic ductal adenocarcinoma in mice.** *STAR protocols*
  Agolia, J. P., Xie, P. Y., Korah, M., Fallah, M., Reveron-Thornton, R. F., Guo, C., Reddy, B., Sivasubramanian, R., Longaker, M. T., Chaudhuri, O., Foster, D. S., Delitto, D.
  2026; 7 (1): 104337

- **The Sh3Pxd2bnee-/- mouse: an attractive model unveiling novel developmental features in Frank-ter-Haar Syndrome.** *Development (Cambridge, England)*
  Huber, J., Menon, S., Lopez-Torres, M., Guo, J. L., Longaker, M. T.
  2026

- **Metabolic Effects on Wound Healing** *Advances in Wound Care*
  Yao, H., Griffin, M., Jing, S., Kawamoto-Duran, D., Tarter, J., Liang, N., Longaker, M., Wan, D.
  2026

- **Regional diversity of cranial skeletal stem cells governs bone morphogenetic protein-2 mediated bone regeneration** *Nature Communications*
  Takematsu, E., Lachmansingh, R., Johnston, K., Hou, S., Bailey, E., Wang, Y., Zhao, L., Hoover, M., Nguyen, H., Parmar, K., Talbott, H., Longaker, M., Chan, et al
  2026

- **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

- **Understanding and Advancing Wound Healing in the Era of Multi-Omic Technology.** *Bioengineering (Basel, Switzerland)*
  Jing, S. L., Suh, E. J., Huang, K. X., Griffin, M. F., Wan, D. C., Longaker, M. T.
  2025; 13 (1)

- **A Developmental Roadmap Toward Abdominal Adhesions Prevention Technologies.** *Annals of surgery open : perspectives of surgical history, education, and clinical approaches*
  Christensen, R. R., Wright, K. E., Ives, J. K., Minnick, C. E., Chen, Q., Girgis, M. D., Ko, C., Gibbons, M. M., Russell, T. A., Huy, T. C., Bercz, A., Smith, J. J., Bailey, et al
  2025; 6 (4): e637

- **The Challenge of Healing Wounds in Radiation-Injured Skin.** *Advances in wound care*
  Lavin, C. V., Kendig, C. B., Kawamoto, D., Tarter, J., Yao, H., Shibale, P., Sunwoo, P. S., Perrault, D., Longaker, M. T., Wan, D. C.

2025

- **Clinical Features and Mechanisms of Differential Wound Healing and Scarring Across Anatomical Sites.** *Advances in wound care*
  Yao, H., Jing, S. L., Huang, K. X., Griffin, M. F., Longaker, M. T., Wan, D. C., Li, D. J.
  2025
- **Clinical Features and Mechanisms of Differential Wound Healing and Scarring Across Anatomical Sites** *Advances in Wound Care*
  Yao, H., Jing, S., Huang, K., Griffin, M., Longaker, M., Wan, D., Li, D.
  2025
- **Wound Healing and Management Considerations in the Pediatric Surgical Patient.** *Advances in wound care*
  Liang, N. E., Jing, S. L., Suh, E. J., Wang, H. H., Pham, B. P., Chiu, B., Hyun, J. S., Griffin, M. F., Longaker, M. T., Fell, G. L.
  2025
- **Anatomical Heterogeneity of Skeletal Stem Cells Dictates Craniofacial Bone Regeneration**
  Takematsu, E., Longaker, M.
  OXFORD UNIV PRESS.2025
- **Single Cell RNA-Seq and Xenium Spatial Transcriptomics Analysis Reveals Potential Mechanism for Migration of Creeping Fat-Derived Mechanosensitive Fibroblast in Crohn's Disease Strictures**
  Pham, B., Bauer-Rowe, K. E., Liang, N., Suh, E. J., Longaker, M., Hyun, J.
  LIPPINCOTT WILLIAMS & WILKINS.2025: S88
- **Benchmarking cell type and gene set annotation by large language models with AnnDictionary.** *Nature communications*
  Crowley, G., Quake, S. R.
  2025; 16 (1): 9511
- **Targeting circulating mechanoresponsive monocytes and macrophages to reduce fibrosis.** *Nature biomedical engineering*
  Chen, K., Griffin, M., Henn, D., Berryman, K. S., Sivaraj, D., Kussie, H. C., Bonham, C. A., McKenna, E., Mora Pinos, M. G., Alsharif, A. M., Saenz, F., Matthews, N. E., Jafri, et al
  2025
- **The Unique Roles of Adipose Tissue in Wound Healing.** *Advances in wound care*
  Parker, J. B., Griffin, M., Akras, D., Liang, N. E., Valencia, C., Morgan, A. G., Kuhnert, M., Dilorio, S. E., Longaker, M. T., Wan, D. C.
  2025
- **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
- **Surgical Strategies for Tumors of the Pancreas and Duodenum.** *Cancers*
  Reveron-Thornton, R. F., Huang, K. X., Delitto, D., Longaker, M. T., Norton, J. A.
  2025; 17 (18)
- **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., Januszyk, M., Guo, J. L., De Santis, S., Xing, Y., Prystupa, A., Sidhu, I., Suh, et al
  2025
- **Cancer-derived mitochondria fuel fibroblasts to become pro-tumorigenic.** *Nature cancer*
  Delitto, D., Longaker, M. T.
  2025
- **Correction: Morgan et al. Precision Medicine: IL-1RA and Pancreatic Cancer Organoids. Biology 2025, 14, 604.** *Biology*
  Morgan, A. G., Griffin, M. F., Longaker, M. T., Norton, J. A.
  2025; 14 (9)
- **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., Januszyk, et al

2025

- **Genetic variation in the activity of a TREM2-p53 signaling axis determines oxygen-induced lung injury.** *Nature immunology*
  Abe, Y., Spann, N. J., Tang, W., Zeng, F., Seymour, C., Jansky, S., Guo, J. L., Huff, R., Chanthavixay, K., Richard, J. L., Mooney, M., Dhar, D., Ganguly, 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., Januszyk, M., Valencia, C., Kuhnert, M., Lu, et al
  2025; 17 (805): eadk2101
- **Prophylactic Decellularized Adipose Matrix Treatment Mitigates Development of Radiation-Induced Cutaneous Fibrosis.** *Annals of plastic surgery*
  Berry, C. E., Brenac, C., Kendig, C., Le, T., Huang, K. X., Griffin, M., Kameni, L., Longaker, M. T., Nazerali, R. S., Wan, D. C.
  2025; 94 (6): 688-694
- **Precision Medicine: IL-1RA and Pancreatic Cancer Organoids.** *Biology*
  Morgan, A. G., Griffin, M. F., Longaker, M. T., Norton, J. A.
  2025; 14 (6)
- **Retraction Note: Prophylactic treatment with transdermal deferoxamine mitigates radiation-induced skin fibrosis.** *Scientific reports*
  Shen, A. H., Borrelli, M. R., Adem, S., Deleon, N. M., Patel, R. A., Mascharak, S., Yen, S. J., Sun, B. Y., Taylor, W. L., Januszyk, M., Nguyen, D. H., Momeni, A., Gurtner, et al
  2025; 15 (1): 16410
- **Osteopontin attenuates the foreign-body response to silicone implants.** *Nature biomedical engineering*
  Griffin, M. F., Parker, J. B., Tevlin, R., Liang, N. E., Valencia, C., Morgan, A., Kuhnert, M., Downer, M., Meany, E. L., Guo, J. L., Henn, D., Navarro, R. S., Shefren, et al
  2025
- **BA-ECM Score: Automated Quantification of Liver Fibrosis Architecture in Biliary Atresia with Potential for Prognostic Value - A Pilot Study.** *Annals of surgery*
  Liang, N. E., Guo, J. L., Griffin, M. F., Bauer-Rowe, K. E., Narang, A., Januszyk, M., Fell, G. L., Dunn, J. C., Chao, S. D., Tan, S. Y., Longaker, M. T., Hyun, J. S.
  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
- **Human skeletal development and regeneration are shaped by functional diversity of stem cells across skeletal sites.** *Cell stem cell*
  Ambrosi, T. H., Taheri, S., Chen, K., Sinha, R., Wang, Y., Hunt, E. J., Goodnough, L. H., Murphy, M. P., Steininger, H. M., Hoover, M. Y., Felix, F., Weldon, K. C., Koepke, et al
  2025
- **Postoperative adhesions are abrogated by a sustained-release anti-JUN therapeutic in preclinical models.** *Science translational medicine*
  Foster, D. S., Guo, J. L., Meany, E., Berry, C. E., Fallah, M., Korah, M., Januszyk, M., Bauer-Rowe, K. E., Lopez, D. M., Williams, C. M., Song, R., Griffin, M., Kim, et al
  2025; 17 (789): eadp9957
- **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
- **Harnessing the diversity and potential of endogenous skeletal stem cells for musculoskeletal tissue regeneration.** *Stem cells (Dayton, Ohio)*
  Weldon, K. C., Longaker, M. T., Ambrosi, T. H.
  2025

- **Endothelial-specific CXCL12 regulates neovascularization during tissue repair and tumor progression.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Hostler, A. C., Hahn, W. W., Hu, M. S., Rennert, R., Fischer, K. S., Barrera, J. A., Duscher, D., Januszyk, M., Henn, D., Sivaraj, D., Yasmeh, J. P., Kussie, H. C., Granoski, et al
  2024; 38 (24): e70210

- **The DERMIS Study: Methodologies, Results, and Implications for the Future.** *Journal of diabetes science and technology*
  Hirsch, I. B., Khakpour, D., Joseph, J., Shinohara, M. M., Wang, R. K., Klueh, U., Kreutzner, D., Riveline, J. P., Jacquemier, P., Maier, L., Longaker, M. T., Parkin, C. G., Pieber, et al
  2024: 19322968241298005

- **AI in plastic surgery: customizing care for each patient** *ARTIFICIAL INTELLIGENCE SURGERY*
  Brenac, C., Fazilat, A. Z., Fallah, M., Kawamoto-Duran, D., Sunwoo, P. S., Longaker, M. T., Wan, D. C., Guo, J. L.
  2024; 4 (4): 296-315

- **Characterizing Fibroblast Heterogeneity in Diabetic Wounds Through Single-Cell RNA-Sequencing.** *Biomedicines*
  Wang, H. H., Korah, M., Jing, S. L., Berry, C. E., Griffin, M. F., Longaker, M. T., Januszyk, M.
  2024; 12 (11)

- **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

- **Radiation-Induced Fibrosis Is Mitigated by Fat Grafting Treatment Through Regulation of N2RFR Signaling**
  Kuhnert, M. M., Griffin, M., Guo, J. L., Berry, C., Parker, J. B. L., Liang, N., Januszyk, M., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2024: S388

- **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.
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- **Creeping Fat-Derived Fibroblasts Promote Intestinal Fibrosis in Crohn's Disease**
  Bauer-Rowe, K. E., Pham, B., Korah, M., Guo, J. L., Liang, N., Griffin, M., Delitto, D., Longaker, M. T., Hyun, J. S.
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- **Piezo Inhibition Prevents and Rescues Scarring by Targeting the Adipocyte to Fibroblast Transition**
  Griffin, M., Parker, J. B. L., Tomasso, A., Guo, J. L., Liang, N., Morgan, A., Kuhnert, M. M., Wan, D. C., Longaker, M. T.
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- **Tissue Microenvironment Affects Transcriptional and Epigenetic Landscapes in Mechano-Sensitive Fibroblasts During Foreign Body Response**
  Parker, J. B. L., Griffin, M., Liang, N., Guo, J. L., Morgan, A., Kuhnert, M. M., Januszyk, M., Wan, D. C., Longaker, M. T.
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- **Understanding the Remodeling Phase of Wound Healing Using a Multi-Omic Approach**
  Parker, J. B. L., Griffin, M., Guo, J. L., Morgan, A., Kuhnert, M. M., Januszyk, M., Wan, D. C., Longaker, M. T.
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- **Dipeptidylpeptidase 4 Is Overexpressed in the Extracellular Matrix of Biliary Atresia-Associated Liver Fibrosis**
  Liang, N., Griffin, M., Parker, J. B. L., Guo, J. L., Bauer-Rowe, K. E., Fell, G. L., Dunn, J. C. Y., Tan, S. Y. S., Hyun, J. S., Longaker, M. T.
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- **Ferroptosis Inhibition with Deferoxamine Alleviates Radiation-Induced Fibrosis**
  Berry, C., Brenac, C., Griffin, M., Kameni, L., Guo, J. L., Longaker, M. T., Wan, D. C.
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- **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.
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- **Organoid Assessment of IL-1 Inhibition in Human Pancreatic Ductal Adenocarcinoma**
  Morgan, A., Griffin, M., Guo, C., Parker, J. B. L., Januszyk, M., Foster, D. S., Poultsides, G. A., Delitto, D., Longaker, M. T., Norton, J. A.
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- **Simultaneous Multiomic Single-Cell Analysis Reveals Gene Regulatory Mechanism of Interleukin-Based Immunotherapy in Pancreatic Ductal Adenocarcinoma**
  Guo, C., Morgan, A., Griffin, M., Parker, J. B. L., Januszyk, M., Foster, D., Delitto, D., Longaker, M. T., Norton, J. A.
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- **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.
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- **Investigation of Creeping Fat Associated Fibroblasts in Smooth Muscle Cell Hypertrophy in Crohn's Disease Stricture Formation**
  Pham, B., Bauer-Rowe, K. E., Liang, N., Griffin, M., Guo, J. L., Foster, D., Norton, J. A., Hyun, J. S., Longaker, M. T.
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- **Pre-Clinical Trail of Bone Morphogenetic Protein-2-Based Articular Cartilage Regenerative Therapy for Osteoarthritis**
  Takematsu, E., Murphy, M., Wang, Y., Zhao, L., Longaker, M., Chan, C. K. F.
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- **Insights into Irradiation Effects on Vascular Tissues: Single-Cell Transcriptional Analysis from Irradiated Internal Mammary Arteries and Aorta**
  Brenac, C., Berry, C., Fallah, M., Griffin, M., Parker, J. B. L., Guo, J. L., Nazerali, R., Momeni, A., Longaker, M. T., Wan, D. C.
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- **TGF-β Signaling Plays a Significant Role on the Skeletal Stem Cell and Tendon Enthesis Healing**
  Diiorio, S., Titan, A., Davitt, M., Foster, D., Menon, S., Fox, P. M., Chan, C. K., Quarto, N., Longaker, M. T.
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- **Charles "Chuck" K.F. Chan (1975-2024).** *Cell stem cell*
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- **Clinical, mechanistic, and therapeutic landscape of cutaneous fibrosis.** *Science translational medicine*
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- **Editorial for Special Issue on Artificial Intelligence in Tissue Engineering and Biology** *TISSUE ENGINEERING PART A*
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- **Editorial for Special Issue on Artificial Intelligence in Tissue Engineering and Biology.** *Tissue engineering. Part A*
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- **Marvels of spiny mouse regeneration: cellular players and their interactions in restoring tissue architecture in mammals.** *Current opinion in genetics & development*
  Tomasso, A., Disela, V., Longaker, M. T., Bartscherer, K.
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- **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.
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- **Role of ferroptosis in radiation-induced soft tissue injury.** *Cell death discovery*
  Berry, C. E., Kendig, C. B., An, N., Fazilat, A. Z., Churukian, A. A., Griffin, M., Pan, P. M., Longaker, M. T., Dixon, S. J., Wan, D. C.
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- **Hematoxylin and Eosin Architecture Uncovers Clinically Divergent Niches in Pancreatic Cancer** *TISSUE ENGINEERING PART A*
  Guo, J. L., Lopez, D. M., Mascharak, S., Foster, D. S., Khan, A., Davitt, M. F., Nguyen, A. T., Burcham, A. R., Chinta, M. S., Guardino, N. J., Griffin, M., Miller, E., Januszyk, et al
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  Guo, J. L., Lopez, D. M., Mascharak, S., Foster, D. S., Khan, A., Davitt, M. F., Nguyen, A. T., Burcham, A. R., Chinta, M. S., Guardino, N. J., Griffin, M., Miller, E., Januszyk, et al
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- **Ferroptosis Inhibition with Deferoxamine Alleviates Radiation-Induced Fibrosis.** *Research square*
  Berry, C. E., Kendig, C., Bs, T. L., Brenac, C., Griffin, M., Guo, J., Kameni, L., Dixon, S. J., Longaker, M. T., Wan, D.
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  Talbott, H. E., Griffin, M. F., Mascharak, S., Parker, J. B., Kuhnert, M. M., Guo, J. L., Diaz Deleon, N. M., Lavin, C., Abbas, D., Guardino, N., Morgan, A., Valencia, C., Cotterell, et al
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  Daniel, S. K., Foster, D., Nosrati, F., Korah, M., Fallah, M., Sun, B. J., Loftus, T., Hu, D., Dua, M., Visser, B., Poultsides, G., Kirane, A., Longaker, et al
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- **IL-1RA and IL-12 Decrease Pancreatic Ductal Adenocarcinoma Tumor Mass and Prolong Survival by Inhibiting Mechanoresponsive Cafs**
  Morgan, A., Griffin, M., Downer, M., Lindsay, H., Parker, J. B., Guo, J. L., Longaker, M. T., Norton, J. A.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S455-S456

- **Where There Is Fat, There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Kim, A., Griffin, M., Liang, N., Foster, D., Guo, J. L., Norton, J. A., Longaker, M. T., Hyun, J. S.

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- **Single-Cell RNA-Sequencing Identifies Modulator of Foreign Body Response with Use of Acellular Dermal Matrix in Breast Reconstruction**
  Liang, N., Tevlin, R., Griffin, M., Parker, J. B., Henn, D., Navarro, R. S., Dung Nguyen, Momeni, A., Wan, D. C., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S389-S390
- **Tissue Microenvironment a Key Driver in Fibrotic Capsules Formed During Foreign Body Response**
  Parker, J. B., Griffin, M., Downer, M., Morgan, A., Guo, J. L., Liang, N., Berry, C., Diiorio, S., Wan, D. C., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S393
- **Fat Grafting Treatment for Radiation-Induced Fibrosis Results in Downregulation of Inflammatory and Fibrotic Signaling Pathways**
  Berry, C., Abbas, D., Kameni, L., Griffin, M., Downer, M., Parker, J. B., Guo, J. L., Januszyk, M., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S381-S382
- **Investigating Dysmotility and the Expansion of Glial Cells and Interstitial Cells of Cajal in Crohn's Disease Strictures Using a Novel Surgical Mouse Model**
  Kim, A., Bauer-rowe, K. E., Griffin, M., Foster, D., Longaker, M. T., Hyun, J. S.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S355
- **Analysis of Collagen Extracellular Matrix Ultrastructure in Mouse Long Bone Distraction Osteogenesis**
  Diiorio, S., Guo, J. L., Griffin, M., Huber, J. L., Downer, M., Berry, C., Wan, D. C., Longaker, M. T.
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- **Grafting of Human Foreskin onto Murine Dorsum Provides a Novel Model of Chronic Radiation-Induced Fibrosis**
  Berry, C., Abbas, D., Griffin, M., Kameni, L., Downer, M., Parker, J. B., Liang, N., Dilorio, S., Longaker, M. T., Wan, D. C.
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- **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
- **Novel Deferoxamine Cream Formulation Improves Perfusion, Elasticity, and Tissue Architecture in Chronically Irradiated Murine Skin Compared to Transdermal Patch**
  Berry, C., Abbas, D., Kameni, L., Griffin, M., Downer, M., Parker, J. B., Liang, N., Guo, J. L., Longaker, M. T., Wan, D. C.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S386
- **Pioglitazone Decreases Adipogenisis Leading to Melanoma Skin Tumor Suppression**
  Downer, M., Griffin, M., Morgan, A., Parker, J. B., Berry, C., Li, D. J., Liang, N., Kameni, L., Wan, D. C., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S387-S388
- **Ferropotosis Levels Decrease in Response to Deferoxamine Treatment in Irradiated Murine Skin**
  Berry, C., Kameni, L., Griffin, M., Downer, M., Parker, J. B., Guo, J. L., Liang, N., Januszyk, M., Longaker, M. T., Wan, D. C.
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- **Healing of Chronically Irradiated Excisional Wounds Improved by Topical Deferoxamine Treatment**
  Berry, C., Griffin, M., Kameni, L., Abbas, D., Downer, M., Parker, J. B., Liang, N., Januszyk, M., Longaker, M. T., Wan, D. C.
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- **Where There Is Fat, There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Kim, A., Griffin, M., Liang, N., Foster, D., Guo, J. L., Norton, J. A., Longaker, M. T., Hyun, J. S.
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- **Thumb Osteoarthritis: Stem Cell Activation, Niche Augmentation and Tissue Regeneration**
  Murphy, M., Takematsu, E., Koepke, L., Tong, X., Butler, G., Ambrosi, T., Hoover, M., Wang, Y., Zhao, L., Wong, J., Reid, A., Longaker, M., Chan, et al
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  Murphy, M., Takematsu, E., Koepke, L., Tong, X., Butler, G., Ambrosi, T., Hoover, M., Wang, Y., Zhao, L., Wong, J., Reid, A., Longaker, M., Chant, et al
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- **Attenuating Chronic Fibrosis: Decreasing Foreign Body Response with Acellular Dermal Matrix.** *Tissue engineering. Part B, Reviews*
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- **Topical Vanadate Improves Excisional Wound Healing in Murine Model**
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  LIPPINCOTT WILLIAMS & WILKINS.2023: S91
- **Lineage Tracing Reveals Adipocytes Are Responsible for Muscle Fibrosis Following Nerve Injury**
  Spielman, A., Griffin, M., Cotterell, A. C., Erich, K., Guo, B. L., Abbas, D., Parker, J. B. L., Lintel, H., Wan, D. C., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S92
- **Developing a Mouse Model to Evaluate Tibial Distraction Osteogenesis**
  DiIorio, S., Tevlin, R., Shah, H. N., Salhotra, A., Griffin, M., Januszyk, M., Wan, D. C., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S90
- **Radiation Injury Genetically Alters Fibroblast Subpopulations to Induce Fibrosis**
  Abbas, D., Griffin, M., Guo, J. L., Lavin, C. V., Fahy, E. J., Guardino, N. J., Lintel, H., Januszyk, M., Longaker, M. T., Wan, D. C.
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- **Radiation Injury Therapy with Transdermal Deferoxamine Patch is Dose Dependent**
  Abbas, D., Griffin, M., Lavin, C. V., Fahy, E. J., Lintel, H., Guardino, N. J., Guo, J. L., Longaker, M. T., Wan, D. C.
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- **Quantitative Analysis of the Collagen Matrix Ultrastructure in Mouse Hearts after Myocardial Infarction**
  Lu, J., Griffin, M., Guo, J. L., Mascharak, S., Guardino, N. J., Longaker, M. T.
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- **Overcoming Radiation Induced Oral Fibrosis through the Down Regulation of Wnt Signaling Using Bmp-7 Inhibitors**
  Cotterell, A. C., Griffin, M., Spielman, A., Guardino, N., Lintel, H., Abbas, D., Guo, J. L., Parker, J., Wan, D., Longaker, M. T.
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- **The effects of mechanical force on fibroblast behavior in cutaneous injury.** *Frontiers in surgery*
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- **Establishing a xenograft model with CD-1 nude mice to study human skin wound repair.** *Plastic and reconstructive surgery*

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- **Mechanoresponsive Pancreatic Ductal Adenocarcinoma Cancer Associated Fibroblasts Shows an FAK-Dependent Subtype Divergent from Canonical Fibrotic TGFB-Pathway Dependence**

  Foster, D., Delitto, D., Januszyk, M., Yost, K., Griffin, M., Guo, J., Guardino, N., Delitto, A., Chinta, M., Burcham, A., Nguyen, A., Bauer-, K., Berry, et al

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  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.
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- **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.
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- **Reversal of Senescence in Skin-derived Fibroblasts Using Exogenous Mechanical Stimulation**
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  Leeolou, M. C., Sivaraj, D., Davitt, M., Henn, D., Steele, S., Huskins, S. L., Trotsyuk, A. A., Kussie, H. C., Greco, A., Perrault, D., Padmanabhan, J., Longaker, M. T., Chen, et al
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- **Topical Deferoxamine Patch Is Superior to Direct Injection for the Treatment of Radiation-Induced Skin Fibrosis**
  Lavin, C. V., Abbas, D. B., Fahy, E. J., Lee, D. K., Griffin, M., Deleon, N., Mascharak, S., Gurtner, G. C., Longaker, M. T., Wan, D. C.
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- **Effects of beta(3) Adrenergic Receptor Agonist Treatment in Murine Full Thickness Dorsal Cutaneous Wounds**
  Fahy, E. J., Griffin, M., Abbas, D., Lavin, C. V., King, M. E., Lee, D., Longaker, M. T., Wan, D. C.
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- **Where There Is Fat There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Griffin, M., Foster, D., desJardins-Park, H. E., Mascharak, S., Norton, J. A., Hyun, J. S., Longaker, M. T.
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- **Local Vitamin E Administration Improves Fat Graft Retention and Radiation-Induced Fibrosis in a Mouse Model**
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- **Temperature Influence on Scanning Laser Doppler Flowmetry in Anesthetized Mice**
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- **Acellular Dermal Matrix Grafts Decrease Radiation-Induced Contracture and Dermal Thickening**
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- **Fibroblast Sub-Populations Dynamically Change Composition to Heal Dorsal Skin Radiation Wounds in Wild-Type Mice**
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- **Denervation During Mandibular Distraction Osteogenesis Results in Impaired Osteogenesis**
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- **Effects of beta(3) Adrenergic Receptor Agonist Treatment in Murine Full Thickness Dorsal Cutaneous Wounds**
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