

Stanford



Michael 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 OFFICES

- **Hagey Building**

257 Campus Dr Room GK106

MC 5148

Stanford, CA 94305

Tel (650) 736-1706

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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
- Co-Director, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute
- Faculty Fellow, Stanford ChEM-H

ADMINISTRATIVE APPOINTMENTS

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

PROFESSIONAL EDUCATION

- Fellowship: UCLA Dept of Plastic Surgery (1996) CA
- Residency: New York University Plastic Surgery Residency (1995) NY
- Residency: UCSF General Surgery Residency (1993) CA
- Internship: UCSF General Surgery Residency (1985) CA
- Board Certification: Plastic Surgery, American Board of Plastic Surgery (1998)
- Medical Education: Harvard Medical School (1984) MA

- Board Recertification, American Board of Surgery , General Surgery (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

Deane P. and Louise Mitchell Professor and Vice Chair

Co-Director, Institute of Stem Cell Biology and Regenerative Medicine

Director of the Program in Regenerative Medicine

Director, Children's Surgical Research

Director of Research, Division of Plastic & Reconstructive Surgery

Professor, by Courtesy, Department of Bioengineering

Professor, by Courtesy, Department of Materials Science and Engineering

Department of Surgery

Stanford University School of Medicine

Lucile Salter Packard Children's Hospital

Dr. Michael T. Longaker joined the Stanford University School of Medicine on September 1, 2000 as Director of Children's Surgical Research in the Department of Surgery, Division of Plastic and Reconstructive Surgery and the Lucile Salter Packard Children's Hospital. In 2003, he was named the Deane P. and Louise Mitchell Professor and in 2010 became Vice Chair of the Department of Surgery. As Director of Program in Regenerative Medicine and Co-Director of the Institute for Stem Cell Biology and Regenerative Medicine, and Director of the Children's Surgical Research, Dr. Longaker has the responsibility to develop research programs in the broad areas of developmental biology, epithelial biology and tissue repair, tissue engineering, and stem cell biology. Prior to joining Stanford, Dr. Longaker was the John Marquis Converse Professor of Plastic Surgery and held the positions of Director of Surgical Basic Science and Director of Plastic Surgery Research at the Institute of Reconstructive Plastic Surgery at the New York University School of Medicine.

Michael Longaker's extensive research experience includes the cellular and molecular biology of extracellular matrix with specific applications to the differences between fetal and post-natal wound healing, the biology of keloids and hypertrophic scars, the cellular and molecular events in craniofacial development and stem cell biology. He brings to Stanford his unique understanding of wound healing, fetal wound healing research, developmental biology, tissue engineering, and stem cell biology.

Dr. Longaker is the recipient of the prestigious Flance-Karl Award from the American Surgical Association, the Jacobson Promising Investigator Award from the American College of Surgeons, and was a James IV Traveling Fellow. He is a member Association for Academic Surgeons, the Society of University Surgeons, American Surgical Association and American Society for Clinical Investigation, Association of American Physicians, and the Institute of Medicine of the National Academies of Science. He served as Treasurer and subsequently President for the Society of University Surgeons. To date, he has published over 1050 publications and has numerous federal grants to support his research. He has recruited 6 faculty to the Children's Surgical Research Program, all of whom are NIH funded.

Dr. Longaker earned his undergraduate degree at Michigan State University, (where he played varsity basketball and 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 and a craniofacial fellowship at UCLA. The majority of his research training took place while he was a Post Doctoral

Research Fellow in the Fetal Treatment Program under Dr. Mike Harrison and in the laboratory of Dr. Michael Banda in Radiobiology, both at UCSF. 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.

Teaching

COURSES

2018-19

- Plastic Surgery: SURG 209 (Aut)

2017-18

- Plastic Surgery: SURG 209 (Aut, Sum)

2016-17

- Plastic Surgery: SURG 209 (Aut, Sum)

2015-16

- Plastic Surgery: SURG 209 (Aut, Sum)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Thomas Ambrosi, Mimi Borrelli, Ruth Jones, Matthew Murphy, Ashley Titan

Doctoral Dissertation Advisor (AC)

Deshka Foster

Postdoctoral Research Mentor

Thomas Ambrosi, Deshka Foster

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **TOPICAL FOCAL ADHESION KINASE INHIBITOR PROMOTES SKIN REGENERATION AND SCAR PREVENTION IN A PRECLINICAL PORCINE MODEL**
Kwon, S., Kuehlmann, B., Dohi, T., Trotsyuk, A. A., Hu, M. S., Inayathullah, M., Rajadas, J., Longaker, M. T., Gurtner, G. C.
WILEY.2019: A11–A12
- **Pro-Fibrotic CD26-Positive Fibroblasts are Present in Greater Abundance in Breast Capsule Tissue of Irradiated Breasts.** *Aesthetic surgery journal*
Borrelli, M. R., Irizzary, D., Patel, R. A., Nguyen, D., Momeni, A., Longaker, M. T., Wan, D. C.
2019
- **The Spectrum of Scarring in Craniofacial Wound Repair** *FRONTIERS IN PHYSIOLOGY*
desJardins-Park, H. E., Mascharak, S., Chinta, M. S., Wan, D. C., Longaker, M. T.
2019; 10
- **Wounds Inhibit Tumor Growth In Vivo.** *Annals of surgery*
Hu, M. S., Maan, Z. N., Leavitt, T., Hong, W. X., Rennert, R. C., Marshall, C. D., Borrelli, M. R., Zhu, T. N., Esquivel, M., Zimmermann, A., McArdle, A., Chung, M. T., Foster, et al
2019

- **Coordinating Tissue Regeneration through TGF-beta Activated Kinase 1 (TAK1) In-activation and Re-activation.** *Stem cells (Dayton, Ohio)*
Sung Hsieh, H. H., Agarwal, S., Cholok, D. J., Loder, S. J., Kaneko, K., Huber, A., Chung, M. T., Ranganathan, K., Habbouche, J., Li, J., Butts, J., Reimer, J., Kaura, et al
2019
- **Fat Chance: The Rejuvenation of Irradiated Skin** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*
Borrelli, M. R., Patel, R. A., Sokol, J., Dung Nguyen, Momeni, A., Longaker, M. T., Wan, D. C.
2019; 7 (2): e2092
- **Fat Grafting into Younger Recipients Improves Volume Retention in an Animal Model.** *Plastic and reconstructive surgery*
Chung, N. N., Ransom, R. C., Blackshear, C. P., Irizarry, D. M., Yen, D., Momeni, A., Lee, G. K., Nguyen, D. H., Longaker, M. T., Wan, D. C.
2019
- **The Spectrum of Scarring in Craniofacial Wound Repair.** *Frontiers in physiology*
desJardins-Park, H. E., Mascharak, S., Chinta, M. S., Wan, D. C., Longaker, M. T.
2019; 10: 322
- **In Vitro and In Vivo Osteogenic Differentiation of Human Adipose-Derived Stromal Cells.** *Methods in molecular biology (Clifton, N.J.)*
Marshall, C. D., Brett, E. A., Moore, A. L., Wan, D. C., Longaker, M. T.
2019; 1891: 9–18
- **Wound healing and fibrosis: current stem cell therapies.** *Transfusion*
Jones, R. E., Foster, D. S., Hu, M. S., Longaker, M. T.
2019; 59 (S1): 884–92
- **Doxycycline Reduces Scar Thickness and Improves Collagen Architecture.** *Annals of surgery*
Moore, A. L., desJardins-Park, H. E., Duoto, B. A., Mascharak, S., Murphy, M. P., Irizarry, D. M., Foster, D. S., Jones, R. E., Barnes, L. A., Marshall, C. D., Ransom, R. C., Wernig, G., Longaker, et al
2018
- **Small molecule inhibition of dipeptidyl peptidase-4 enhances bone marrow progenitor cell function and angiogenesis in diabetic wounds.** *Translational research : the journal of laboratory and clinical medicine*
Whittam, A. J., Maan, Z. N., Duscher, D., Barrera, J. A., Hu, M. S., Fischer, L. H., Khong, S., Kwon, S. H., Wong, V. W., Walmsley, G. G., Giacco, F., Januszzyk, M., Brownlee, et al
2018
- **DEL1 protects against chondrocyte apoptosis through integrin binding.** *The Journal of surgical research*
Wang, Z., Boyko, T., Tran, M. C., LaRussa, M., Bhatia, N., Rashidi, V., Longaker, M. T., Yang, G. P.
2018; 231: 1–9
- **Discussion: CRISPR Craft: DNA Editing the Reconstructive Ladder** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Hu, M. S., Longaker, M. T., Wan, D. C.
2018; 142 (5): 1365–66
- **Mechanoresponsive stem cells acquire neural crest fate in jaw regeneration.** *Nature*
Ransom, R. C., Carter, A. C., Salhotra, A., Leavitt, T., Marecic, O., Murphy, M. P., Lopez, M. L., Wei, Y., Marshall, C. D., Shen, E. Z., Jones, R. E., Sharir, A., Klein, et al
2018
- **Author Correction: Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes.** *Nature communications*
Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R. E., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Brett, E. A., Wan, D. C., Longaker, M. T.
2018; 9 (1): 4411
- **Twist1-Haploinsufficiency Selectively Enhances the Osteoskeletal Capacity of Mesoderm-Derived Parietal Bone Through Downregulation of Fgf23** *FRONTIERS IN PHYSIOLOGY*
Quarto, N., Shailendra, S., Meyer, N. P., Menon, S., Renda, A., Longaker, M. T.
2018; 9
- **Clonal Analysis of Local Fibroblasts in Wound Healing and Tumor Stroma**
Foster, D. S., Ransom, R. C., Nguyen, A. T., Salhotra, A., Jones, R. E., Hu, M. S., Norton, J. A., Longaker, M. T.

ELSEVIER SCIENCE INC.2018: S236

- **Engrailed1-Positive Fibroblasts May Modulate Transcription of the TGF-beta Pathway in the Transition from Scarless Healing to Scarring Phenotype**
Moore, A. L., Marshall, C. D., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Barnes, A., Ransom, R. C., Hu, M. S., Lorenz, H., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: E221–E222
- **Nerve-Dependent Mandibular Regeneration by Skeletal Stem Cells in Fracture Repair**
Jones, R., Ransom, R. C., Salhotra, A., Foster, D. S., Wan, D. C., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: S197
- **Mouse Model with cJUN Over-Expression Eludes to Deep Dermal Fibroblast Expansion and Immune Cell Recruitment as the Biologic Mechanism of Hypertrophic Scarring**
Moore, A. L., Duoto, B. A., Des Jardins-Park, H. E., Mascharak, S., Wernig, G., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: S208
- **Translational Approach Using Trimodal Manipulation of Resident Skeletal Stem Cells for Articular Cartilage Repair**
Murphy, M. P., Koepke, L. S., Lopez, M., Ransom, R. C., Brewer, R. E., Borrelli, M. R., Marecic, O., Chan, C. F., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: S213–S214
- **Automated Quantification of Vessel Structure: A Novel Method for Analysis of Angiogenesis in Wound Healing**
Jardins-Park, H., Mascharak, S., Moore, A. L., Duoto, B. A., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: E196
- **Act2, Tnc, and Col24a1 Expression Are Associated with Abdominal Adhesion Formation**
Marshall, C. D., Foster, D. S., Ransom, R. C., Manjunath, A., Gulati, G., Hu, M. S., Moore, A. L., Barnes, L. A., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: E128
- **Reduced Scar Thickness Achieved by Topical Doxycycline Is Mediated by Specific Skin Fibroblast Populations and Not Immune Cell Infiltrate**
Moore, A. L., Murphy, M. P., Irizarry, D. M., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Foster, D. S., Jones, R., Wernig, G., Longaker, M. T.
ELSEVIER SCIENCE INC.2018: S210–S211
- **Method of Isolating and Transplanting the Hematopoietic Stem Cell with Its Microenvironment Which Improves Functional Hematopoietic Engraftment**
Borrelli, M. R., Lopez, M., Gulati, G., Murphy, M. P., Sinha, R., Longaker, M. T., Weissman, I. L., Newman, A. M., Chan, C. K., Sokol, J.
ELSEVIER SCIENCE INC.2018: E224
- **Identification of the Human Skeletal Stem Cell. *Cell***
Chan, C. K., Gulati, G. S., Sinha, R., Tompkins, J. V., Lopez, M., Carter, A. C., Ransom, R. C., Reinisch, A., Wearda, T., Murphy, M., Brewer, R. E., Koepke, L. S., Marecic, et al
2018; 175 (1): 43
- **Utilizing Confocal Microscopy to Characterize Human and Mouse Adipose Tissue. *Tissue engineering. Part C, Methods***
Blackshear, C., Borrelli, M. R., Shen, E. Z., Ransom, R. C., Chung, N. N., Vistnes, S., Irizarry, D., Nazerli, R., Momeni, A., Longaker, M. T., Wan, D. C.
2018
- **Fibroblasts and wound healing: an update. *Regenerative medicine***
des Jardins-Park, H. E., Foster, D. S., Longaker, M. T.
2018
- **Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes. *Nature communications***
Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R. E., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Wan, D. C., Longaker, M. T.
2018; 9 (1): 2971
- **Iron Chelation with Transdermal Deferoxamine Accelerates Healing of Murine Sickle Cell Ulcers *ADVANCES IN WOUND CARE***
Rodrigues, M., Bonham, C. A., Minniti, C. P., Gupta, K., Longaker, M. T., Gurtner, G. C.
2018
- **Isolation and functional assessment of mouse skeletal stem cell lineage *NATURE PROTOCOLS***
Gulati, G. S., Murphy, M. P., Marecic, O., Lopez, M., Brewer, R. E., Koepke, L. S., Manjunath, A., Ransom, R. C., Salhotra, A., Weissman, I. L., Longaker, M. T., Chan, C. F.
2018; 13 (6): 1294–1309

- **Wound Healing Research at the Hagey Laboratory for Pediatric Regenerative Medicine at Stanford University School of Medicine** *ADVANCES IN WOUND CARE*
Hu, M. S., Longaker, M. T.
2018: 1–5
- **A Fibroblast Is Not a Fibroblast Is Not a Fibroblast** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Hu, M. S., Moore, A. L., Longaker, M. T.
2018; 138 (4): 729–30
- **Pathway Analysis of Gene Expression in Murine Fetal and Adult Wounds** *ADVANCES IN WOUND CARE*
Hu, M. S., Hong, W., Januszyk, M., Walmsley, G. G., Luan, A., Maan, Z. N., Moshrefi, S., Tevlin, R., Wan, D. C., Gurtner, G. C., Longaker, M. T., Lorenz, H.
2018
- **Three-Dimensional Ultrasound Versus Computerized Tomography in Fat Graft Volumetric Analysis** *ANNALS OF PLASTIC SURGERY*
Blackshear, C., Rector, M., Chung, N., Irizarry, D., Flacco, J., Brett, E., Momeni, A., Lee, G., Longaker, M. T., Wan, D. C.
2018; 80 (3): 293–96
- **beta-Catenin-Dependent Wnt Signaling: A Pathway in Acute Cutaneous Wounding** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Carre, A. L., Hu, M. S., James, A. W., Kawai, K., Galvez, M. G., Longaker, M. T., Lorenz, H.
2018; 141 (3): 669–78
- **Deferoxamine Preconditioning of Irradiated Tissue Improves Perfusion and Fat Graft Retention** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Flacco, J., Chung, N., Blackshear, C. P., Irizarry, D., Momeni, A., Lee, G. K., Dung Nguyen, Gurtner, G. C., Longaker, M. T., Wan, D. C.
2018; 141 (3): 655–65
- **Embryonic skin development and repair.** *Organogenesis*
Hu, M. S., Borrelli, M. R., Hong, W. X., Malhotra, S., Cheung, A. T., Ransom, R. C., Rennert, R. C., Morrison, S. D., Lorenz, H. P., Longaker, M. T.
2018: 1–18
- **Review of the Current Management of Pressure Ulcers** *ADVANCES IN WOUND CARE*
Boyko, T. V., Longaker, M. T., Yang, G. P.
2018; 7 (2): 57–67
- **Cutaneous Scarring: Basic Science, Current Treatments, and Future Directions** *ADVANCES IN WOUND CARE*
Marshall, C. D., Hu, M. S., Leavitt, T., Barnes, L. A., Lorenz, H., Longaker, M. T.
2018; 7 (2): 29–45
- **Mechanical Forces in Cutaneous Wound Healing: Emerging Therapies to Minimize Scar Formation** *ADVANCES IN WOUND CARE*
Barnes, L. A., Marshall, C. D., Leavitt, T., Hu, M. S., Moore, A. L., Gonzalez, J. G., Longaker, M. T., Gurtner, G. C.
2018; 7 (2): 47–56
- **Twist1-Haploinsufficiency Selectively Enhances the Osteoskeletal Capacity of Mesoderm-Derived Parietal Bone Through Downregulation of Fgf23.** *Frontiers in physiology*
Quarto, N., Shailendra, S., Meyer, N. P., Menon, S., Renda, A., Longaker, M. T.
2018; 9: 1426
- **Skin development and regeneration, and the control of fibrosis** *REGENERATIVE ENGINEERING AND DEVELOPMENTAL BIOLOGY: PRINCIPLES AND APPLICATIONS*
Hu, M. S., Lorenz, H., Longaker, M. T., Gardiner, D. M.
2018: 543–53
- **Management of Chronic Wounds—2018** *JAMA*
Jones, R., Foster, D. S., Longaker, M. T.
2018
- **Wound Healing and Fibrosis: Current Stem Cell Therapies** *Transfusion*
Jones, R., Foster, D. S., Hu, M., Longaker, M. T.
2018
- **The evolving relationship of wound healing and tumor stroma.** *JCI insight*

- Foster, D. S., Jones, R. E., Ransom, R. C., Longaker, M. T., Norton, J. A.
2018; 3 (18)
- **Iron Chelation with Transdermal Deferoxamine Accelerates Healing of Murine Sickle Cell Ulcers.** *Advances in wound care*
Rodrigues, M., Bonham, C. A., Minniti, C. P., Gupta, K., Longaker, M. T., Gurtner, G. C.
2018; 7 (10): 323–32
 - **Wound Healing Research at the Hagey Laboratory for Pediatric Regenerative Medicine at Stanford University School of Medicine.** *Advances in wound care*
Hu, M. S., Longaker, M. T.
2018; 7 (8): 257–61
 - **Pathway Analysis of Gene Expression in Murine Fetal and Adult Wounds.** *Advances in wound care*
Hu, M. S., Hong, W. X., Januszzyk, M., Walmsley, G. G., Luan, A., Maan, Z. N., Moshrefi, S., Tevlin, R., Wan, D. C., Gurtner, G. C., Longaker, M. T., Lorenz, H. P.
2018; 7 (8): 262–75
 - **Management of Chronic Wounds-2018.** *JAMA*
Jones, R. E., Foster, D. S., Longaker, M. T.
2018; 320 (14): 1481–82
 - **Discussion: CRISPR Craft: DNA Editing the Reconstructive Ladder.** *Plastic and reconstructive surgery*
Hu, M. S., Longaker, M. T., Wan, D. C.
2018; 142 (5): 1365–66
 - **The evolving relationship of wound healing and tumor stroma** *JCI Insight*
Foster, D. S., Jones, R., Ransom, R., Longaker, M. T., Norton, J. A.
2018
 - **Scarless wound healing: Transitioning from fetal research to regenerative healing.** *Wiley interdisciplinary reviews. Developmental biology*
Moore, A. L., Marshall, C. D., Barnes, L. A., Murphy, M. P., Ransom, R. C., Longaker, M. T.
2018; 7 (2)
 - **Pathway Analysis of Gene Expression of E14 Versus E18 Fetal Fibroblasts** *ADVANCES IN WOUND CARE*
Hu, M. S., Borrelli, M. R., Januszzyk, M., Luan, A., Malhotra, S., Walmsley, G. G., Hong, W., Tevlin, R., Gurtner, G. C., Longaker, M. T., Lorenz, H. P.
2018; 7 (1): 1–10
 - **An Improved Humanized Mouse Model for Excisional Wound Healing Using Double Transgenic Mice** *ADVANCES IN WOUND CARE*
Hu, M. S., Cheng, J., Borrelli, M. R., Leavitt, T., Walmsley, G. G., Zielins, E. R., Hong, W., Cheung, A. M., Duscher, D., Maan, Z. N., Irizarry, D. M., Stephan, B., Parsa, et al
2018; 7 (1): 11–17
 - **Transdermal Deferoxamine Significantly Enhances Healing of Sickle Cell Ulcers**
Rodrigues, M., Bonham, C. A., Inayathullah, M., Rajadas, J., Yang, G. P., Caterina, M. P., Gupta, K., Longaker, M. T., Gurtner, G. C.
WILEY.2018: A11
 - **Inhibition of IRE1 results in decreased scar formation.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
Boyko, T. V., Bam, R., Jiang, D., Wang, Z., Bhatia, N., Tran, M. C., Longaker, M. T., Koong, A. C., Yang, G. P.
2018
 - **PHD-2 Suppression in Mesenchymal Stromal Cells Enhances Wound Healing** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Ko, S., Nauta, A. C., Morrison, S. D., Hu, M. S., Zimmermann, A. S., Chung, M. T., Glotzbach, J. P., Wong, V. W., Walmsley, G. G., Lorenz, H., Chan, D. A., Gurtner, G. C., Giaccia, et al
2018; 141 (1): 55E–67E
 - **Prrx1 Labels the Fibrogenic Fibroblast in the Ventral Dermis**
Hu, M., Leavitt, T., Garcia, J., Ransom, R., Litzenburger, U., Walmsley, G., Marshall, C., Moore, A., Mascharak, S., Chan, C., Wan, D., Lorenz, P., Chang, et al
WILEY.2018: A4
 - **Noncoding RNAs in Wound Healing: A New and Vast Frontier** *ADVANCES IN WOUND CARE*

- Luan, A., Hu, M. S., Leavitt, T., Brett, E. A., Wang, K. C., Longaker, M. T., Wan, D. C.
2018; 7 (1): 19–27
- **Mesenchymal Stromal Cells and Cutaneous Wound Healing: A Comprehensive Review of the Background, Role, and Therapeutic Potential** *STEM CELLS INTERNATIONAL*
Hu, M. S., Borrelli, M. R., Lorenz, H., Longaker, M. T., Wan, D. C.
2018: 6901983
 - **Ultrasound-assisted liposuction provides a source for functional adipose-derived stromal cells** *CYTOTHERAPY*
Duscher, D., Maan, Z. N., Luan, A., Aitzetmueller, M. M., Brett, E. A., Atashroo, D., Whittam, A. J., Hu, M. S., Walmsley, G. G., Houschyar, K. S., Schilling, A. F., Machens, H., Gurtner, et al
2017; 19 (12): 1491–1500
 - **Cell-Based Soft Tissue Reconstruction in a Hydrogel Scaffold** *ANNALS OF PLASTIC SURGERY*
Blackshear, C. P., Flacco, J. S., Vistnes, S. M., Chung, N. N., Irizarry, D., Brett, E. A., Yen, D. J., Momeni, A., Longaker, M. T., Wan, D. C.
2017; 79 (6): 618–22
 - **A MUSE for Skin Regeneration** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*
Hu, M. S., Longaker, M. T.
2017; 137 (12): 2471–72
 - **Calvarial Defects: Cell-Based Reconstructive Strategies in the Murine Model** *TISSUE ENGINEERING PART C-METHODS*
Murphy, M. P., Quarto, N., Longaker, M. T., Wan, D. C.
2017; 23 (12): 971–81
 - **Epigenetic Analysis of Scar Forming Fibroblasts Reveals Key Differences in Genes Associated with Fibrosis**
Moore, A. L., Marshall, C. D., Litzenburger, U., Barnes, L., Ransom, R., Hu, M., Leavitt, T., Chang, H. Y., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: S200–S201
 - **Shifting Skeletal Stem Cell Dynamics Underlie Skeletal Aging in Mice**
Marecic, O., McArdle, A., Seo, E., Tevlin, R., Gulati, G. S., Murphy, M. P., Lopez, M., Weissman, I. L., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: S166
 - **Cellular Mechanisms Underlying Regeneration in Mandibular Distraction Osteogenesis**
Ransom, R. C., Leavitt, T., Murphy, M. P., Marecic, O., Lopez, M., Marshall, C. D., Barnes, L. A., Wan, D. C., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: E143–E144
 - **Activation of the Mouse Resident Skeletal Stem Cell for Articular Cartilage Repair**
Murphy, M. P., Lopez, M., Ransom, R. C., Marecic, O., Gulati, G. S., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: S160
 - **Rescue of Del1 Knock Out Phenotype in Bone Fracture Healing in Mice**
Boyko, T. V., Marecic, O., Lopez, M., Seo, E., Tong, X., Chan, C., Longaker, M. T., Yang, G. P.
ELSEVIER SCIENCE INC.2017: S89–S90
 - **Doxycycline Improves Wound Healing via Nonantibiotic Associated Mechanisms**
Moore, A. L., Murphy, M. P., Irizarry, D. M., Brett, E. A., Wernig, G., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: S162–S163
 - **Invited Commentary on: Role of Notch Signaling in the Physiological Patterning of Posterofrontal and Sagittal Cranial Sutures** *JOURNAL OF CRANIOFACIAL SURGERY*
Quarto, N., Longaker, M. T.
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 - **Strategic Targeting of Multiple BMP Receptors Prevents Trauma-Induced Heterotopic Ossification** *MOLECULAR THERAPY*
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