Stanford



Geoffrey Gurtner

Johnson & Johnson Distinguished Professor of Surgery, Emeritus

Surgery - Plastic and Reconstructive Surgery

NIH Biosketch available Online

CONTACT INFORMATION

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Bio

BIO

Geoffrey C. Gurtner, MD, Professor of Surgery and Inaugural Vice Chairman of Surgery for Innovation at Stanford University, is a magna cum laude graduate of Dartmouth College and an Alpha Omega Alpha graduate of the University of California, San Francisco School of Medicine. He completed a general surgery residency at the Massachusetts General Hospital/Harvard Medical School program, a plastic surgery residency at the New York University School of Medicine and received advanced training in microsurgery at the University of Texas-MD Anderson Cancer Center. He is currently double boarded in surgery and plastic surgery. Dr. Gurtner is the Executive Director of the Stanford Advanced Wound Care Center and currently serves as Chair of the NIDDK Diabetic Foot Ulcer (DFU) Consortium. He is Co-Director of Hagey Laboratory for Pediatric Regenerative Medicine. In addition to maintaining an active surgical practice in aesthetic surgery, wound healing and breast cancer reconstruction, Dr. Gurtner has received multiple National Institutes of Health R01 awards, Department of Defense grants and numerous smaller awards from foundations and the private sector. He is the author of over 296 peer-reviewed publications, an editor for the sixth edition of Grabb & Smith's Plastic Surgery and the Yearbook of Plastic Surgery, received the James Barrett Brown Award from the American Association of Plastic Surgeons in both 2009 and 2010 and is a James IV traveling fellow for 2010. He is the President of the Wound Healing Society (WHS). Dr. Gurtner is also a member of the Stanford Biodesign Program, a joint venture between the Stanford Business and Medical Schools focusing on medical technology innovation. He holds multiple patents and patent applications in vascular medicine, wound healing and aesthetic medicine, is active in the commercialization of new technologies for clinical practice and has founded several venture backed start-up companies in the San Francisco Bay Area.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Surgery - Plastic and Reconstructive Surgery
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Neurosciences Institute

ADMINISTRATIVE APPOINTMENTS

- Chair of Diabetic Foot Ulcer (DFU) Consortium, NIH/NIDDK, (2019-2021)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- President, Wound Healing Society (WHS) (2019 - present)
- Coulter Foundation Oversight Board, Stanford Department of Bioengineering (2016 - present)
- Executive Faculty, Biodesign Faculty Fellows Program (2016 - present)

PROFESSIONAL EDUCATION

- MD, UCSF , Medicine (1989)

LINKS

- Gurtner Lab Website: http://gurtnerlab.stanford.edu

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Geoffrey Gurtner's Lab is interested in understanding the mecahnism of new blood vessel growth following injury and how pathways of tissue regeneration and fibrosis interact in wound healing.

CLINICAL TRIALS

- A Study of the Safety and Effectiveness of the Mentor Larger Size MemoryGel Ultra High Profile Breast Implants in Subjects Who Are Undergoing Primary Breast Reconstruction or Revision Reconstruction, Not Recruiting
- Decellularized, Whole Donor Nipple-Areola Complex Reconstruction Grafts, Not Recruiting
- Efficacy and Safety of Intramuscular PDA-002 in Subjects Who Have Diabetic Foot Ulcer With and Without Peripheral Arterial Disease, Not Recruiting
- Electrical Stimulation as an Adjunctive Therapy to Increase Vascular Perfusion in People With PAD or PVD, Not Recruiting
- Evaluation of the Cook Biodesign® Nipple Reconstruction Cylinder (NRC), Not Recruiting
- SPY Intra-Operative Angiography & Skin Perfusion in Immediate Breast Reconstruction w/ Implants, Not Recruiting
- Study to Evaluate the Safety and Efficacy of CHAM* for the Treatment of Diabetic Foot Ulcers, Not Recruiting
- Autologous Regenerative Technology (ART) For Wound Healing, Not Specified

Teaching

STANFORD ADVISEES

Med Scholar Project Advisor

Dharshan Sivaraj

Publications

PUBLICATIONS

- **Disrupting mechanotransduction decreases fibrosis and contracture in split-thickness skin grafting.** *Science translational medicine*
  Chen, K., Henn, D., Januszyk, M., Barrera, J. A., Noishiki, C., Bonham, C. A., Griffin, M., Tevlin, R., Carlomagno, T., Shannon, T., Fehlmann, T., Trotsyuk, A. A., Padmanabhan, et al
  2022; 14 (645): eabj9152
- **Disrupting biological sensors of force promotes tissue regeneration in large organisms.** *Nature communications*
  Chen, K., Kwon, S. H., Henn, D., Kuehlmann, B. A., Tevlin, R., Bonham, C. A., Griffin, M., Trotsyuk, A. A., Borrelli, M. R., Noishiki, C., Padmanabhan, J., Barrera, J. A., Maan, et al
  2021; 12 (1): 5256

- **Wound Center Without Walls: The New Model of Providing Care During the COVID-19 Pandemic.** *Wounds : a compendium of clinical research and practice*
  Rogers, L. C., Armstrong, D. G., Capotorto, J., Fife, C. E., Garcia, J. R., Gelly, H., Gurtner, G. C., Lavery, L. A., Marston, W., Neville, R., Nusgart, M., Ravitz, K., Woelfel, et al
  2020

- **Diabetes irreversibly depletes bone marrow-derived mesenchymal progenitor cell subpopulations.** *Diabetes*
  Januszyk, M., Sorkin, M., Glotzbach, J. P., Vial, I. N., Maan, Z. N., Rennert, R. C., Duscher, D., Thangarajah, H., Longaker, M. T., Butte, A. J., Gurtner, G. C.
  2014; 63 (9): 3047-3056

- **Tracking the elusive fibrocyte: identification and characterization of collagen-producing hematopoietic lineage cells during murine wound healing.** *Stem cells*
  Suga, H., Rennert, R. C., Rodrigues, M., Sorkin, M., Glotzbach, J. P., Januszyk, M., Fujiwara, T., Longaker, M. T., Gurtner, G. C.
  2014; 32 (5): 1347-1360

- **Enhancement of mesenchymal stem cell angiogenic capacity and stemness by a biomimetic hydrogel scaffold** *BIOMATERIALS*
  Rustad, K. C., Wong, V. W., Sorkin, M., Glotzbach, J. P., Major, M. R., Rajadas, J., Longaker, M. T., Gurtner, G. C.
  2012; 33 (1): 80-90

- **Focal adhesion kinase links mechanical force to skin fibrosis via inflammatory signaling.** *Nature medicine*
  Wong, V. W., Rustad, K. C., Akaishi, S., Sorkin, M., Glotzbach, J. P., Januszyk, M., Nelson, E. R., Levi, K., Paterno, J., Vial, I. N., Kuang, A. A., Longaker, M. T., Gurtner, et al
  2012; 18 (1): 148-152

- **Vascular anastomosis using controlled phase transitions in poloxamer gels** *NATURE MEDICINE*
  Chang, E. I., Galvez, M. G., Glotzbach, J. P., Hamou, C. D., El-Ftesi, S., Rappleye, C. T., Sommer, K., Rajadas, J., Abilez, O. J., Fuller, G. G., Longaker, M. T., Gurtner, G. C.
  2011; 17 (9): 1147-U160

- **Improving Cutaneous Scar Formation by Controlling the Mechanical Environment Large Animal and Phase I Studies** *ANNALS OF SURGERY*
  Gurtner, G. C., Dauskardt, R. H., Wong, V. W., Bhatt, K. A., Wu, K., Vial, I. N., Padois, K., Korman, J. M., Longaker, M. T.
  2011; 254 (2): 217-225

- **An Information Theoretic, Microfluidic-Based Single Cell Analysis Permits Identification of Subpopulations among Putatively Homogeneous Stem Cells** *PLOS ONE*
  Glotzbach, J. P., Januszyk, M., Vial, I. N., Wong, V. W., Gelbard, A., Kalisky, T., Thangarajah, H., Longaker, M. T., Quake, S. R., Chu, G., Gurtner, G. C.
  2011; 6 (6)

- **The molecular basis for impaired hypoxia-induced VEGF expression in diabetic tissues** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
  Thangarajah, H., Yao, D., Chang, E. I., Shi, Y., Jazayeri, L., Vial, I. N., Galiano, R. D., Du, X., Grogan, R., Galvez, M. G., Januszyk, M., Brownlee, M., Gurtner, et al
  2009; 106 (32): 13505-13510

- **Wound repair and regeneration** *NATURE*
  Gurtner, G. C., Werner, S., Barrandon, Y., Longaker, M. T.
  2008; 453 (7193): 314-321

- **Decreasing intracellular superoxide corrects defective ischemia-induced new vessel formation in diabetic mice** *JOURNAL OF BIOLOGICAL CHEMISTRY*
  Ceradini, D. J., Yao, D., Grogan, R. H., Callaghan, M. J., Edelstein, D., Brownlee, M., Gurtner, G. C.
  2008; 283 (16): 10930-10938

- **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

- **A bioactive compliant vascular graft modulates macrophage polarization and maintains patency with robust vascular remodeling.** *Bioactive materials*

Stahl, A., Hao, D., Barrera, J., Henn, D., Lin, S., Moeinzadeh, S., Kim, S., Maloney, W., Gurtner, G., Wang, A., Yang, Y. P.
2023; 19: 167-178

- **Two Independent Capsules Surrounding a Single Textured Implant in Ehlers-Danlos Syndrome** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*
  Padmanabhan, J., Liu, F. C., Sivaraj, D., Henn, D., Chen, K., Simon, D. R., Barrera, J. A., Gunner, G. C.
  2022; 10 (8): e4470

- **Holy grail of tissue regeneration: Size.** *BioEssays : news and reviews in molecular, cellular and developmental biology*
  Chen, K., Henn, D., Gurtner, G. C.
  2022: e2200047

- **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

- **Profibrotic Signaling Pathways and Surface Markers Are Upregulated in Fibroblasts of Human Striae Distensae and in a Mouse Model System.** *Plastic and reconstructive surgery*
  Borrelli, M. R., Griffin, M., Chen, K., Diaz, N. M., Adem, S., Mascharak, S., Shen, A. H., Ngaage, L. M., Lewis, N., Longaker, M. T., Gurtner, G., Wan, D. C., Lorenz, et al
  2022

- **Partial Tendon Injury at the Tendon-to-Bone Enthesis Activates Skeletal Stem Cells.** *Stem cells translational medicine*
  Titan, A. L., Davitt, M., Foster, D., Salhotra, A., Menon, S., Chen, K., Fahy, E., Lopez, M., Jones, R. E., Baiu, I., Burcham, A., Januszyk, M., Gurtner, et al
  2022

- **Pullulan-Collagen Hydrogel Wound Dressing Promotes Dermal Remodeling and Wound Healing Compared to Commercially Available Collagen Dressings.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
  Chen, K., Sivaraj, D., Davitt, M., Leeolou, M. C., Henn, D., Steele, S. R., Huskins, S. L., Trotsyuk, A. A., Kussie, H. C., Greco, A., Padmanabhan, J., Perrault, D. P., Zamaleeva, et al
  2022

- **Surgical Applications of Materials Engineered with Antimicrobial Properties.** *Bioengineering (Basel, Switzerland)*
  Perrault, D. P., Sharma, A., Kim, J. F., Gurtner, G. C., Wan, D. C.
  2022; 9 (4)

- **Topological supramolecular network enabled high-conductivity, stretchable organic bioelectronics.** *Science (New York, N.Y.)*
  Jiang, Y., Zhang, Z., Wang, Y. X., Li, D., Coen, C. T., Hwaun, E., Chen, G., Wu, H. C., Zhong, D., Niu, S., Wang, W., Saberi, A., Lai, et al
  2022; 375 (6587): 1411-1417

- **Enrichment of Nanofiber Hydrogel Composite with Fractionated Fat Promotes Regenerative Macrophage Polarization and Vascularization for Soft-Tissue Engineering.** *Plastic and reconstructive surgery*
  Henn, D., Fischer, K. S., Chen, K., Greco, A. H., Martin, R. A., Sivaraj, D., Trotsyuk, A. A., Mao, H., Reddy, S. K., Kneser, U., Gurtner, G. C., Schmidt, V. J., Sacks, et al
  2022; 149 (3): 433e-444e

- **Mechanical Signaling Mediated by IQGAP1 Promotes Pathologic Foreign Body Response**
  Sivaraj, D., Padmanabhan, J., Chen, K., Henn, D., Kussie, H. C., Leeolou, M. C., Trotsyuk, A. A., Fischer, K., Perrault, D., Gurtner, G. C.
  WILEY.2022: A21

- **Application of No Releasing Gel Increases Fibronectin, TGF-beta 1, and Accelerates Wound Healing in Diabetic Mice**
  Noishiki, C., Sivaraj, D., Kosaric, N., Leeolou, M. C., Kussie, H. C., Kiwanuka, H., Henn, D., Fischer, K., Trotsyuk, A. A., Padmanabhan, J., Perrault, D., Murad, F., Chen, et al
  WILEY.2022: A8

- **A Novel Sshrna-Antimir Combination Therapy For Accelerating Healing Of Diabetic Foot Ulcers**
  Johnston, B. H., Gurtner, G. C., Berger, A., Veves, A.
  WILEY.2022: A17

- **Determining How Early Disruption Of Mechanotransduction Affects Acute Wound Healing**
  Kussie, H. C., Sivaraj, D., Leeolou, M. C., Huskins, S. L., Steele, S., Henn, D., Trotsyuk, A. A., Gurtner, G. C., Chen, K.
  WILEY.2022: A22

- **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

- **Interactions Of Fibroblasts Versus Macrophages In An In Vitro Model Of Scar Formation And Wound Healing**
  Huskins, S. L., Griffin, M., Steele, S., Thomas, B., Kussie, H. C., Sivaraj, D., Leeolou, M. C., Trotsyuk, A. A., Padmanabhan, J., Longaker, M. T., Gurtner, G. C., Chen, K.
  WILEY.2022: A53-A54

- **Pullulan-Collagen Hydrogel Wound Dressing Promotes Dermal Remodeling and Healing in an Excisional Wound Model**
  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
  WILEY.2022: A24

- **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

- **Characterization of Mechanoresponsive Inflammatory Cells during Wound Healing**
  Chen, K., Griffin, M., Henn, D., Bonham, C. A., Fischer, K., Padmanabhan, J., Trotsyuk, A. A., Sivaraj, D., Leeolou, M. C., Kussie, H. C., Huskins, S. L., Steele, S., Perrault, et al
  WILEY.2022: A31-A32

- **Galvanotactic Smart Bandage for Chronic Wound Management and Tissue Regeneration**
  Trotsyuk, A. A., Jiang, Y., Niu, S., Henn, D., Chen, K., Larson, M., Beard, E., Saberi, A., Sivaraj, D., Mermin-Bunnell, A., Mittal, S., Jing, S., Kwon, et al
  WILEY.2022: A36

- **Allometric Tissue-Scale Forces Activate Mechanoresponsive Immune Cells To Drive Pathological Foreign Body Response To Biomedical Implants**
  Padmanabhan, J., Chen, K., Sivaraj, D., Kuehlmann, B., Bonham, C., Dohi, T., Henn, D., Stern-Buchbinder, Z., Than, P., Hosseini, H., Barrera, J., Kussie, H., Magbual, et al
  WILEY.2022: A19-A20

- **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

- **Characterization of Mechanoresponsive Inflammatory Cells during Wound Healing**
  Chen, K., Griffin, M., Henn, D., Bonham, C. A., Fischer, K., Padmanabhan, J., Trotsyuk, A. A., Sivaraj, D., Leeolou, M. C., Kussie, H. C., Huskins, S. L., Steele, S., Perrault, et al
  WILEY.2022: A5

- **Foot Burns in Persons With Diabetes: Outcomes From the National Trauma Data Bank.** *Journal of burn care & research : official publication of the American Burn Association*
  Perrault, D., Cobert, J., Gadiraju, V., Sharma, A., Gurtner, G., Pham, T., Sheckter, C. C.
  2022

- **Chronic wounds: Treatment consensus.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*
  Eriksson, E., Liu, P. Y., Schultz, G. S., Martins-Green, M. M., Tanaka, R., Weir, D., Gould, L. J., Armstrong, D. G., Gibbons, G. W., Wolcott, R., Olutoye, O. O., Kirsner, R. S., Gurtner, et al
  2022

- **Wound care research sponsored by the Department of Defense** *WOUND REPAIR AND REGENERATION*
  Davis, M. R., Gurtner, G. C., Eriksson, E.
  2022

- **Multi-omic analysis reveals divergent molecular events in scarring and regenerative wound healing.** *Cell stem cell*
  Mascharak, S., Talbott, H. E., Januszyk, M., Griffin, M., Chen, K., Davitt, M. F., Demeter, J., Henn, D., Bonham, C. A., Foster, D. S., Mooney, N., Cheng, R., Jackson, et al
  1800

- **Reinforced Biologic Mesh Reduces Postoperative Complications Compared to Biologic Mesh after Ventral Hernia Repair.** *Plastic and reconstructive surgery. Global open*
  Sivaraj, D., Henn, D., Fischer, K. S., Kim, T. S., Black, C. K., Lin, J. Q., Barrera, J. A., Leeolou, M. C., Makarewicz, N. S., Chen, K., Perrault, D. P., Gurtner, G. C., Lee, et al
  2022; 10 (2): e4083

- **Combining Breast and Ovarian Operations Increases Complications.** *Plastic and reconstructive surgery*
  Henn, D., Barrera, J. A., Sivaraj, D., Lin, J. Q., Rizk, N. M., Ma, I., Gurtner, G. C., Lee, G. K., Nazerali, R. S.
  2022

- **IQGAP1-mediated mechanical signaling promotes the foreign body response to biomedical implants.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Sivaraj, D., Padmanabhan, J., Chen, K., Henn, D., Noishiki, C., Trotsyuk, A. A., Kussie, H. C., Leeolou, M. C., Magbual, N. J., Andrikopoulos, S., Perrault, D. P., Barrera, J. A., Januszyk, et al
  2022; 36 (2): e22007

- **Selective Microvascular Tissue Transfection Using Minicircle DNA for Systemic Delivery of Human Coagulation Factor IX in a Rat Model Using a Therapeutic Flap.** *Plastic and reconstructive surgery*
  Than, P. A., Davis, C. R., Rennert, R. C., Morrison, S. D., Findlay, M. W., Kay, M. A., Gurtner, G. C.
  2021

- **The Plane of Mesh Placement Does Not Impact Abdominal Donor Site Complications in Microsurgical Breast Reconstruction.** *Annals of plastic surgery*
  Henn, D., Sivaraj, D., Barrera, J. A., Lin, J. Q., Chattopadhyay, A., Maan, Z. N., Chen, K., Nguyen, A., Cheesborough, J., Gurtner, G. C., Lee, G. K., Nazerali, R.
  2021; 87 (5): 542-546

- **Dermal Iron Chelation Reduces Indirect Radiation Injury**
  Lavin, C. V., Fahy, E. J., Abbas, D. B., Griffin, M., Lee, D. K., Deleon, N., Guardino, N., Gurtner, G. C., Longaker, M. T., Wan, D. C.
  ELSEVIER SCIENCE INC.2021: E155

- **Optimizing Cutometer Mpa 580 Calculated Parameters to Determine In-vivo Elasticity of Human Skin**
  Abbas, D. B., Lavin, C. V., Fahy, E., Griffin, M., Guardino, N., Lee, D., Gurtner, G. C., Longaker, M. T., Wan, D. C.
  ELSEVIER SCIENCE INC.2021: E162

- **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.
  ELSEVIER SCIENCE INC.2021: S202-S203

- **Cancer-Associated Fibroblasts Share Highly Conserved Phenotypes and Functions Across Tumor Types and Species**
  Foster, D. S., Januszyk, M., Yost, K. E., Chinta, M., Titan, A. L., Wapnir, I. L., Gurtner, G. C., Chang, H. Y., Norton, J. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2021: S243-S244

- **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.
  ELSEVIER SCIENCE INC.2021: S202-S203

- **Cancer-Associated Fibroblasts Share Highly Conserved Phenotypes and Functions Across Tumor Types and Species**
  Foster, D. S., Januszyk, M., Yost, K. E., Chinta, M., Titan, A. L., Wapnir, I. L., Gurtner, G. C., Chang, H. Y., Norton, J. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2021: S243-S244

- **Reply: Hyperbaric Oxygen Therapy in Management of Diabetic Foot Ulcers: Indocyanine Green Angiography May Be Used as a Biomarker to Analyze Perfusion and Predict Response to Treatment.** *Plastic and reconstructive surgery*
  Hajhosseini, B., Gurtner, G. C.
  2021

- **Integrated spatial multiomics reveals fibroblast fate during tissue repair.** *Proceedings of the National Academy of Sciences of the United States of America*
  Foster, D. S., Januszyk, M., Yost, K. E., Chinta, M. S., Gulati, G. S., Nguyen, A. T., Burcham, A. R., Salhotra, A., Ransom, R. C., Henn, D., Chen, K., Mascharak, S., Tolentino, et al
  2021; 118 (41)

- **A comparative analysis of deferoxamine treatment modalities for dermal radiation-induced fibrosis.** *Journal of cellular and molecular medicine*
  Lavin, C. V., Abbas, D. B., Fahy, E. J., Lee, D. K., Griffin, M., Diaz Deleon, N. M., Mascharak, S., Chen, K., Momeni, A., Gurtner, G. C., Longaker, M. T., Wan, D. C.
  2021

- **Inhibiting Fibroblast Mechanotransduction Modulates Severity of Idiopathic Pulmonary Fibrosis.** *Advances in wound care*
  Trotsyuk, A. A., Chen, K., Kwon, S. H., Ma, K. C., Henn, D., Mermin-Bunnell, A. M., Mittal, S., Padmanabhan, J., Larson, M. R., Steele, S. R., Sivaraj, D., Bonham, C. A., Noishiki, et al
  2021

- **From Chronic Wounds to Scarring: The Growing Healthcare Burden of Under- and Over-healing Wounds.** *Advances in wound care*
  desJardins-Park, H. E., Gurtner, G. C., Wan, D. C., Longaker, M. T.
  2021

- **Standardizing dimensionless cutometer parameters to determine in-vivo elasticity of human skin.** *Advances in wound care*
  Abbas, D. B., Lavin, C., Fahy, E., Griffin, M., Guardino, N., King, M., Chen, K., Lorenz, H. P., Gurtner, G. C., Longaker, M. T., Momeni, A., Wan, D. C.
  2021

- **JUN promotes hypertrophic skin scarring via CD36 in preclinical in vitro and in vivo models.** *Science translational medicine*
  Griffin, M. F., Borrelli, M. R., Garcia, J. T., Januszyk, M., King, M., Lerbs, T., Cui, L., Moore, A. L., Shen, A. H., Mascharak, S., Diaz Deleon, N. M., Adem, S., Taylor, et al
  2021; 13 (609): eabb3312

- **Modulating cellular responses to mechanical forces to promote wound regeneration.** *Advances in wound care*
  Mascharak, S., desJardins-Park, H. E., Davitt, M. F., Guardino, N. J., Gurtner, G. C., Wan, D. C., Longaker, M. T.
  2021

- **Correction to: Two-Stage Versus One-Stage Nipple-Sparing Mastectomy: Timing of Surgery Prevents Nipple Loss.** *Annals of surgical oncology*
  Ju, T., Chandler, J., Momeni, A., Gurtner, G., Tsai, J., Nguyen, D., Wapnir, I.
  2021

- **Two-Versus One-Stage Nipple-Sparing Mastectomy: Timing of Surgery Prevents Nipple Loss.** *Annals of surgical oncology*
  Ju, T., Chandler, J., Momeni, A., Gurtner, G., Tsai, J., Nguyen, D., Wapnir, I.
  2021

- **Mechanical Strain Drives Myeloid Cell Differentiation Toward Pro-Inflammatory Subpopulations.** *Advances in wound care*
  Chen, K., Henn, D., Sivaraj, D., Bonham, C. A., Griffin, M., Choi Kussie, H., Padmanabhan, J., Trotsyuk, A. A., Wan, D. C., Januszyk, M., Longaker, M. T., Gurtner, G. C.
  2021

- **Preoperative beta-lactam antibiotic prophylaxis is superior to bacteriostatic alternatives in immediate expander-based breast reconstruction.** *Journal of surgical oncology*
  Miller, T. J., Remington, A. C., Nguyen, D. H., Gurtner, G. C., Momeni, A.
  2021

- **Two-Stage Versus One-Stage Nipple-Sparing Mastectomy: Timing of Surgery Prevents Nipple Loss**
  Ju, T., Momeni, A., Gurtner, G., Nguyen, D., Wapnir, I.
  SPRINGER.2021: S214-S215

- **Transgenic Inhibition Of Engrailed-1 Results In Endogenous Postnatal Skin Regeneration**
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