




## Geoffrey Gurtner

Johnson & Johnson Distinguished Professor of Surgery, Emeritus  
Surgery - Plastic & Reconstructive Surgery

 NIH Biosketch available Online

### CONTACT INFORMATION

- **Alternate Contact**

Theresa Carlomagno - Program Manager

**Email** tcarlomagno@stanford.edu

**Tel** 650-736-2776

### 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 & 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 mechanism 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., Shekter, 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**  
Mascharak, S., desJardins-Park, H. E., Davitt, M. F., Chen, K., Griffin, M., Guardino, N., Lorenz, H., Wan, D. C., Gurtner, G. C., Longaker, M. T.  
WILEY.2021: A14-A15

- **Wnt-active Engrailed-1 Lineage-negative Fibroblasts Mediate Postnatal Skin Regeneration**  
Mascharak, S., desJardins-Park, H. E., Januszzyk, M., Chen, K., Davitt, M. F., Demeter, J., Henn, D., Griffin, M., Bonham, C. A., Mooney, N., Cheng, R., Jackson, P. K., Wan, et al  
WILEY.2021: A30
- **CRISPR/Cas9 Editing Of Autologous Dendritic Cells To Enhance Angiogenesis And Wound Healing**  
Henn, D., Zhao, D., Bonham, C. A., Chen, K., Greco, A. H., Padmanabhan, J., Sivaraj, D., Trotsyuk, A., Barrera, J. A., Januszzyk, M., Qi, L., Gurtner, G. C.  
WILEY.2021: A31-A32
- **Disrupting Mechanotransduction Reduces Scar Formation And Restores Cellular Subpopulations In A Large Animal Model Of Skin Grafting**  
Chen, K., Henn, D., Bonham, C. A., Noishiki, C., Barrera, J. A., Carlomagno, T. C., Shannon, T., Mays, C. J., Trotsyuk, A. A., Padmanabhan, J., Longaker, M. T., Januszzyk, M., Gurtner, et al  
WILEY.2021: A12-A13
- **Mechanical Activation Of Inflammation At The Implant-tissue Interface Underlies Pathological Foreign Body Response**  
Padmanabhan, J., Chen, K., Bonham, C. A., Kuehlmann, B. A., Dohi, T., Henn, D., Stern-Buchbinder, Z. A., Than, P. A., Hosseini, H. S., Magbual, N. J., Borrelli, M., Sivaraj, D., Trotsyuk, et al  
WILEY.2021: A9
- **Preventing Engrailed-1 activation in fibroblasts yields wound regeneration without scarring.** *Science (New York, N.Y.)*  
Mascharak, S., desJardins-Park, H. E., Davitt, M. F., Griffin, M., Borrelli, M. R., Moore, A. L., Chen, K., Duoto, B., Chinta, M., Foster, D. S., Shen, A. H., Januszzyk, M., Kwon, et al  
2021; 372 (6540)
- **Adipose-derived stromal cells seeded in pullulan-collagen hydrogels improve healing in murine burns.** *Tissue engineering. Part A*  
Barrera, J., Trotsyuk, A., Maan, Z. N., Bonham, C. A., Larson, M. R., Mittermiller, P. A., Henn, D., Chen, K., Mays, C. J., Mittal, S., Mermin-Bunnell, A. M., Sivaraj, D., Jing, et al  
2021
- **Mechanotransduction in Wound Healing: From the Cellular and Molecular Level to the Clinic** *ADVANCES IN SKIN & WOUND CARE*  
Fu, S., Panayi, A., Fan, J., Mayer, H. F., Daya, M., Khouri, R. K., Gurtner, G. C., Ogawa, R., Orgill, D. P.  
2021; 34 (2): 67–74
- **Wounds Inhibit Tumor Growth In Vivo** *ANNALS OF SURGERY*  
Hu, M. S., Maan, Z. N., Leavitt, T., Hong, W., Rennert, R. C., Marshall, C. D., Borrelli, M. R., Zhu, T. N., Esquivel, M., Zimmermann, A., McArdle, A., Chung, M. T., Foster, et al  
2021; 273 (1): 173–80
- **ASO Visual Abstract: 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
- **Hydrogel Scaffolds to Deliver Cell Therapies for Wound Healing.** *Frontiers in bioengineering and biotechnology*  
Sivaraj, D., Chen, K., Chattopadhyay, A., Henn, D., Wu, W., Noishiki, C., Magbual, N. J., Mittal, S., Mermin-Bunnell, A. M., Bonham, C. A., Trotsyuk, A. A., Barrera, J. A., Padmanabhan, et al  
2021; 9: 660145
- **First reported case of Wohlfahrtiimonas chitiniclastica infection in California** *JAAD Case Reports* *Journal of the American Academy of Dermatology Case Reports*  
Leelou, M. C., Perrault, D. P., Sivaraj, D., Chang, A. S., Chen, K., Trotsyuk, A., Padmanabhan, J., Gurtner, G. C.  
2021
- **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
- **Xenogeneic skin transplantation promotes angiogenesis and tissue regeneration through activated Trem2+ macrophages.** *Science advances*

- Henn, D., Chen, K., Fehlmann, T., Trotsyuk, A. A., Sivaraj, D., Maan, Z. N., Bonham, C. A., Barrera, J. A., Mays, C. J., Greco, A. H., Moortgat Illouz, S. E., Lin, J. Q., Steele, et al  
2021; 7 (49): eabi4528
- **Epidermal-Derived Hedgehog Signaling Drives Mesenchymal Proliferation during Digit Tip Regeneration.** *Journal of clinical medicine*  
Maan, Z. N., Rinkevich, Y., Barrera, J., Chen, K., Henn, D., Foster, D., Bonham, C. A., Padmanabhan, J., Sivaraj, D., Duscher, D., Hu, M., Yan, K., Januszzyk, et al  
2021; 10 (18)
  - **Discussion: Overcoming the Patent Gap: A Guide to Patenting for Plastic Surgeons.** *Plastic and reconstructive surgery*  
Januszzyk, M., desJardins-Park, H. E., Gurtner, G. C., Longaker, M. T.  
2021; 148 (4): 918-919
  - **Proceed with Caution: Mouse Deep Digit Flexor Tendon Injury Model.** *Plastic and reconstructive surgery. Global open*  
Titan, A. L., Fahy, E. n., Chen, K. n., Foster, D. S., Bennett-Kennett, R. n., Dauskardt, R. H., Gurtner, G. C., Chang, J. n., Fox, P. M., Longaker, M. T.  
2021; 9 (1): e3359
  - **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. n., Chiou, G. J., Virk, S. S., Chandra, V. n., Moshrefi, S. n., Meyer, S. n., Kamperman, K. J., Gurtner, G. C.  
2021; 147 (1): 209–14
  - **A multivariable miRNA signature delineates the systemic hemodynamic impact of arteriovenous shunt placement in a pilot study.** *Scientific reports*  
Henn, D., Abu-Halima, M., Kahraman, M., Falkner, F., Fischer, K. S., Barrera, J. A., Chen, K., Gurtner, G. C., Keller, A., Kneser, U., Meese, E., Schmidt, V. J.  
2020; 10 (1): 21809
  - **Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis.** *Cell reports*  
Leavitt, T., Hu, M. S., Borrelli, M. R., Januszzyk, M., Garcia, J. T., Ransom, R. C., Mascharak, S., desJardins-Park, H. E., Litzenger, U. M., Walmsley, G. G., Marshall, C. D., Moore, A. L., Duoto, et al  
2020; 33 (6): 108356
  - **Wounds Heal by Tissue-Resident Fibroblast Progenitors that Proliferate Polyclonally and Mechanoresponsively**  
Foster, D. S., Chinta, M., Salhotra, A., Nguyen, A. T., Burcham, A., Mascharak, S., Januszzyk, M., Gurtner, G. C., Wernig, G., Longaker, M. T.  
ELSEVIER SCIENCE INC.2020: S236–S237
  - **Transdermal Deferoxamine Reduces Radiation-Induced Damage in Porcine Skin**  
Adem, S., Deleon, N., Chen, K., Borrelli, M. R., Shen, A. H., Noishiki, C., Patel, R. A., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
ELSEVIER SCIENCE INC.2020: E46–E47
  - **Transdermal Deferoxamine Treatment Mitigates Fibrosis in Irradiated Skin**  
Shen, A. H., Borrelli, M. R., Deleon, N., Adem, S., Mascharak, S., Salhotra, A., Shah, H., Longaker, M. T., Gurtner, G. C., Wan, D. C.  
ELSEVIER SCIENCE INC.2020: S235
  - **Single-Cell RNA Sequencing Uncovers Antifibrotic Subpopulations of Macrophages in the Cellular Response to Skin Xenografts**  
Henn, D., Chen, K., Maan, Z., Illouz, S., Bonham, C. A., Barrera, J. A., Momeni, A., Wan, D. C., Januszzyk, M., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2020: S232
  - **Ectoderm-Derived Wnt and Hedgehog Signaling Drive Digit Tip Regeneration**  
Barrera, J., Maan, Z. N., Foster, D., Henn, D., Chen, K., Bonham, C., Januszzyk, M., Longaker, M. T., Weissman, I., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2020: S186
  - **Hyperbaric Oxygen Therapy: Descriptive Review of the Technology and Current Application in Chronic Wounds** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*  
Hajhosseini, B., Kuehlmann, B. A., Bonham, C. A., Kamperman, K. J., Gurtner, G. C.  
2020; 8 (9)
  - **Hyperbaric Oxygen Therapy: Descriptive Review of the Technology and Current Application in Chronic Wounds.** *Plastic and reconstructive surgery. Global open*  
Hajhosseini, B., Kuehlmann, B. A., Bonham, C. A., Kamperman, K. J., Gurtner, G. C.

2020; 8 (9): e3136

- **Characterization of Diabetic and Non-Diabetic Foot Ulcers Using Single-Cell RNA-Sequencing.** *Micromachines*  
Januszyk, M., Chen, K., Henn, D., Foster, D. S., Borrelli, M. R., Bonham, C. A., Sivaraj, D., Wagh, D., Longaker, M. T., Wan, D. C., Gurtner, G. C.  
2020; 11 (9)
- **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  
2020; 10 (1): 12346
- **Tissue Engineering of Axially Vascularized Soft-Tissue Flaps with a Poly-( $\epsilon$ -Caprolactone) Nanofiber-Hydrogel Composite.** *Advances in wound care*  
Henn, D., Chen, K., Fischer, K., Rauh, A., Barrera, J. A., Kim, Y. J., Martin, R. A., Hannig, M., Niedoba, P., Reddy, S. K., Mao, H. Q., Kneser, U., Gurtner, et al  
2020; 9 (7): 365-377
- **Digit tip regeneration relies on germ layer restricted Wnt and Hedgehog signaling**  
Barrera, J., Maan, Z., Rinkevich, Y., Henn, D., Chen, K., Bonham, C. A., Padmanabhan, J., Januszyk, M., Weissman, I. L., Gurtner, G. C.  
WILEY.2020: S5
- **Emerging biomarkers in implant-induced fibrosis**  
Kuehlmann, B., Bonham, C. A., Prantl, L., Gurtner, G. C.  
WILEY.2020: S13
- **Human cryopreserved skin grafts recruit M2-macrophages and induce angiogenesis in a murine xenograft model**  
Henn, D., Chen, K., Maan, Z. N., Illouz, S., Bonham, C. A., Fischer, K. S., Padmanabhan, J., Barrera, J. A., Wan, D. C., Januszyk, M., Gurtner, G. C.  
WILEY.2020: S62–S63
- **Inhibiting mechanotransduction signaling changes fibroblast heterogeneity and promotes tissue regeneration in healing wounds**  
Chen, K., Kwon, S., Henn, D., Kuehlmann, B. A., Bonham, C. A., Padmanabhan, J., Noishiki, C., Barrera, J., Longaker, M. T., Januszyk, M., Gurtner, G. C.  
WILEY.2020: S13–S14
- **Inhibiting mechanotransduction signaling changes fibroblast heterogeneity and promotes tissue regeneration in healing wounds**  
Chen, K., Kwon, S., Henn, D., Kuehlmann, B. A., Bonham, C. A., Padmanabhan, J., Noishiki, C., Barrera, J., Longaker, M. T., Januszyk, M., Gurtner, G. C.  
WILEY.2020: S12–S13
- **Radiation-induced fibrosis in porcine skin improves with transdermal deferoxamine treatment**  
Adem, S., Borrelli, M. R., Deleon, N., Shen, A. H., Chen, K., Noishiki, C., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
WILEY.2020: S31–S32
- **Flexible smart bandage for wireless wound healing**  
Trotsyuk, A. A., Jiang, Y., Niu, S., Larson, M., Beard, E., Saberi, A., Henn, D., Kwon, S., Bonham, C., Chen, K., Januszyk, M., Maan, Z., Barrera, et al  
WILEY.2020: S24
- **Digit tip regeneration relies on germ layer restricted Wnt and Hedgehog signaling**  
Barrera, J., Maan, Z., Rinkevich, Y., Henn, D., Chen, K., Bonham, C. A., Padmanabhan, J., Januszyk, M., Weissman, I. L., Gurtner, G. C.  
WILEY.2020: S5
- **Emerging biomarkers in implant-induced fibrosis**  
Kuehlmann, B., Bonham, C. A., Prantl, L., Gurtner, G. C.  
WILEY.2020: S13
- **Human cryopreserved skin grafts recruit M2-macrophages and induce angiogenesis in a murine xenograft model**  
Henn, D., Chen, K., Maan, Z. N., Illouz, S., Bonham, C. A., Fischer, K. S., Padmanabhan, J., Barrera, J. A., Wan, D. C., Januszyk, M., Gurtner, G. C.  
WILEY.2020: S62–S63
- **Inhibiting mechanotransduction signaling changes fibroblast heterogeneity and promotes tissue regeneration in healing wounds**

- Chen, K., Kwon, S., Henn, D., Kuehlmann, B. A., Bonham, C. A., Padmanabhan, J., Noishiki, C., Barrera, J., Longaker, M. T., Januszky, M., Gurtner, G. C.  
WILEY.2020: S13–S14
- **Inhibiting mechanotransduction signaling changes fibroblast heterogeneity and promotes tissue regeneration in healing wounds**  
Chen, K., Kwon, S., Henn, D., Kuehlmann, B. A., Bonham, C. A., Padmanabhan, J., Noishiki, C., Barrera, J., Longaker, M. T., Januszky, M., Gurtner, G. C.  
WILEY.2020: S12–S13
  - **LASER TREATMENT OF TRAUMATIC SCARS AND CONTRACTURES: INTERNATIONAL CONSENSUS RECOMMENDATIONS**  
Seago, M., Shumaker, P. R., Spring, L. K., Alam, M., Al-Niami, F., Anderson, R., Artzi, O., Bayat, A., Cassuto, D., Chan, H. H., Clementoni, M., Dierickx, C. C., Donelan, et al  
WILEY.2020: S30
  - **Cas9-AAV6-engineered human mesenchymal stromal cells improved cutaneous wound healing in diabetic mice.** *Nature communications*  
Srika, W., Kosaric, N., Amorin, A., Jadi, O., Park, Y., Mantri, S., Camarena, J., Gurtner, G. C., Porteus, M.  
2020; 11 (1): 2470
  - **Mechanotransduction in Wound Healing and Fibrosis.** *Journal of clinical medicine*  
Kuehlmann, B., Bonham, C. A., Zucal, I., Prantl, L., Gurtner, G. C.  
2020; 9 (5)
  - **Conformable hyaluronic acid hydrogel delivers adipose-derived stem cells and promotes regeneration of burn injury.** *Acta biomaterialia*  
Dong, Y., Cui, M., Qu, J., Wang, X., Kwon, S. H., Barrera, J., Elvassore, N., Gurtner, G. C.  
2020
  - **Therapeutic Interventions to Reduce Radiation Induced Dermal Injury in a Murine Model of Tissue Expander Based Breast Reconstruction.** *Annals of plastic surgery*  
Luby, A. O., Snider, A. E., Mandair, G. S., Urlaub, K. M., Lynn, J. V., Nelson, N. S., Donneys, A., Ettinger, R. E., Gurtner, G. C., Kohn, D., Buchman, S. R.  
2020
  - **Impaired Neovascularization in Aging.** *Advances in wound care*  
Bonham, C. A., Kuehlmann, B., Gurtner, G. C.  
2020; 9 (3): 111–26
  - **MECHANICAL FORCES IN WOUND HEALING**  
Gurtner, G. C.  
WILEY.2020: A9
  - **Tissue Engineering of Axially Vascularized Soft-Tissue Flaps with a Poly-(ε-Caprolactone) Nanofiber-Hydrogel Composite** *ADVANCES IN WOUND CARE*  
Henn, D., Chen, K., Fischer, K., Rauh, A., Barrera, J. A., Kim, Y., Martin, R., Hannig, M., Niedoba, P., Reddy, S., Mao, H., Kneser, U., Gurtner, et al  
2020
  - **Tissue Engineering Clinical Council Roundtable Discussion: Opportunities and Challenges in Clinical Translation.** *Tissue engineering. Part A*  
Rubin, J. P., Gurtner, G. C., Liu, W. n., March, K. L., Seppänen-Kajjansinkko, R. n., Yaszemski, M. J., Yoo, J. J.  
2020
  - **Macrophage Subpopulation Dynamics Shift following Intravenous Infusion of Mesenchymal Stromal Cells.** *Molecular therapy : the journal of the American Society of Gene Therapy*  
Kosaric, N. n., Srika, W. n., Bonham, C. A., Kiwanuka, H. n., Chen, K. n., Kuehlmann, B. A., Maan, Z. N., Noishiki, C. n., Porteus, M. H., Longaker, M. T., Gurtner, G. C.  
2020
  - **Elucidating the fundamental fibrotic processes driving abdominal adhesion formation.** *Nature communications*  
Foster, D. S., Marshall, C. D., Gulati, G. S., Chinta, M. S., Nguyen, A. n., Salhotra, A. n., Jones, R. E., Burcham, A. n., Lerbs, T. n., Cui, L. n., King, M. E., Titan, A. L., Ransom, et al  
2020; 11 (1): 4061

- **Current and Emerging Topical Scar Mitigation Therapies for Craniofacial Burn Wound Healing.** *Frontiers in physiology*  
Kwon, S. H., Barrera, J. A., Noishiki, C. n., Chen, K. n., Henn, D. n., Sheckter, C. C., Gurtner, G. C.  
2020; 11: 916
- **Cryopreserved human skin allografts promote angiogenesis and dermal regeneration in a murine model.** *International wound journal*  
Henn, D. n., Chen, K. n., Maan, Z. N., Greco, A. H., Moortgat Illouz, S. E., Bonham, C. A., Barrera, J. A., Trotsyuk, A. A., Padmanabhan, J. n., Momeni, A. n., Wan, D. C., Nguyen, D. n., Januszyk, et al  
2020
- **Consensus Conference Statement on the General Use of Near-Infrared Fluorescence Imaging and Indocyanine Green Guided Surgery: Results of a Modified Delphi Study.** *Annals of surgery*  
Dip, F. n., Boni, L. n., Bouvet, M. n., Carus, T. n., Diana, M. n., Falco, J. n., Gurtner, G. C., Ishizawa, T. n., Kokudo, N. n., Lo Menzo, E. n., Low, P. S., Masia, J. n., Muehrcke, et al  
2020
- **Synthetic bone tissue engineering graft substitutes: What is the future?** *Injury*  
Valtanen, R. S., Yang, Y. P., Gurtner, G. C., Maloney, W. J., Lowenberg, D. W.  
2020
- **Laser Treatment of Traumatic Scars and Contractures: 2020 International Consensus Recommendations.** *Lasers in surgery and medicine*  
Seago, M., Shumaker, P. R., Spring, L. K., Alam, M., Al-Niaimi, F., Rox Anderson, R., Artzi, O., Bayat, A., Cassuto, D., Chan, H. H., Dierickx, C., Donelan, M., Gauglitz, et al  
2019
- **In Vivo Models for the Study of Fibrosis.** *Advances in wound care*  
Padmanabhan, J., Maan, Z. N., Kwon, S. H., Kosaraju, R., Bonham, C. A., Gurtner, G. C.  
2019; 8 (12): 645-654
- **Therapeutic breast reconstruction using gene therapy delivered IFN-gamma immunotherapy.** *Molecular cancer therapeutics*  
Davis, C. R., Than, P. A., Khong, S. M., Rodrigues, M., Findlay, M. W., Navarrete, D. J., Ghali, S., Vaidya, J. S., Gurtner, G. C.  
2019
- **Er:YAG Laser versus Sharp Debridement in Management of Chronic Wounds: Effects on Pain and Bacterial Load.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*  
Hajhosseini, B., Chiou, G. J., Dori, G., Fukaya, E., Chandra, V., Meyer, S., Gurtner, G. C.  
2019
- **Matched-Cohort Study Comparing Bioactive Human Split-Thickness Skin Allograft plus Standard of Care to Standard of Care Alone in the Treatment of Diabetic Ulcers: A retrospective analysis across 470 institutions.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*  
Barbul, A., Gurtner, G. C., Gordon, H., Bakewell, K., Carter, M. J.  
2019
- **Digit Tip Regeneration Relies on Germ Layer Restricted Wnt and Hedgehog Signaling**  
Maan, Z. N., Januszyk, M., Rinkevich, Y., Weissman, I., Gurtner, G.  
ELSEVIER SCIENCE INC.2019: S220–S221
- **Identifying risk factors for postoperative major complications in staged implant-based breast reconstruction with AlloDerm** *BREAST JOURNAL*  
Remington, A. C., Gurtner, G. C., Wan, D. C., Nguyen, D., Momeni, A.  
2019; 25 (4): 597–603
- **Identifying risk factors for postoperative major complications in staged implant-based breast reconstruction with AlloDerm.** *The breast journal*  
Remington, A. C., Gurtner, G. C., Wan, D. C., Nguyen, D., Momeni, A.  
2019
- **Young Versus Adult: Finding Clues to Unravel the Increased Regenerative Ability of Stem Cells from Young Donors Reply** *STEM CELLS*  
Kosaric, N., Gurtner, G. C.  
2019; 37 (5): E2

- **RETRO-ORBITAL INFUSION OF HUMAN MESENCHYMAL STROMAL CELLS ACCELERATES WOUND HEALING THROUGH SYSTEMIC EFFECTS**  
Kosaric, N., Srifa, W., Kiwanuka, H., Porteus, M., Gurtner, G.  
WILEY.2019: A10
- **ACCELERATION OF WOUND HEALING WITH PHD2-AND MIR210-TARGETING OLIGONUCLEOTIDES**  
Dallas, A., Trotsyuk, A., Ilves, H., Rodrigues, M., White, A., Gurtner, G., Johnston, B. H.  
WILEY.2019: A36
- **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
- **FIBROSIS AROUND IMPLANTS IS DRIVEN BY THREE UNIQUE SUBGROUPS OF MACROPHAGES**  
Kuehlmann, B. A., Bonham, C. A., Gurtner, G. C.  
WILEY.2019: A6
- **COLLAGEN-PRODUCING MACROPHAGES CONTRIBUTE TO FIBROSIS**  
Kuehlmann, B. A., Bonham, C. A., Gurtner, G. C.  
WILEY.2019: A5
- **BIOMIMETIC ADIPOSE STEM CELL DRESSING FOR SKIN REGENERATION**  
Trotsyuk, A., Bonham, C. A., Rodrigues, M., Mittermiller, P., Rajadas, J., Inayathullah, M., Gurtner, G.  
WILEY.2019: A4
- **TARGETING WNT SIGNALING TO REDUCE FIBROSIS**  
Kuehlmann, B. A., Bonham, C. A., Gurtner, G. C.  
WILEY.2019: A6
- **Stem cell therapies for wound healing** *EXPERT OPINION ON BIOLOGICAL THERAPY*  
Kosaric, N., Kiwanuka, H., Gurtner, G. C.  
2019
- **Age-associated intracellular superoxide dismutase deficiency potentiates dermal fibroblast dysfunction during wound healing** *EXPERIMENTAL DERMATOLOGY*  
Fujiwara, T., Dohi, T., Maan, Z. N., Rustad, K. C., Kwon, S., Padmanabhan, J., Whittam, A. J., Suga, H., Duscher, D., Rodrigues, M., Gurtner, G. C.  
2019; 28 (4): 485–92
- **Beneath the Surface: A Review of Laser Remodeling of Hypertrophic Scars and Burns.** *Advances in wound care*  
Kuehlmann, B., Stern-Buchbinder, Z., Wan, D. C., Friedstat, J. S., Gurtner, G. C.  
2019; 8 (4): 168-176
- **Beneath the Surface: A Review of Laser Remodeling of Hypertrophic Scars and Burns** *ADVANCES IN WOUND CARE*  
Kuehlmann, B., Stern-Buchbinder, Z., Wan, D. C., Friedstat, J. S., Gurtner, G. C.  
2019; 8 (4): 168–76
- **In Vivo Models for the Study of Fibrosis** *ADVANCES IN WOUND CARE*  
Padnmanabhan, J., Maan, Z. N., Kwon, S., Kosaraju, R., Bonham, C. A., Gurtner, G. C.  
2019
- **Stem Cell Therapies for Wound Healing.** *Expert opinion on biological therapy*  
Kosaric, N., Kiwanuka, H., Gurtner, G.  
2019
- **Small molecule inhibition of dipeptidyl peptidase-4 enhances bone marrow progenitor cell function and angiogenesis in diabetic wounds** *TRANSLATIONAL RESEARCH*  
Whittam, A. J., Maan, Z. N., Duscher, D., Barrera, J. A., Hu, M. S., Fischer, L. H., Khong, S., Kwon, S., Wong, V. W., Walmsley, G. G., Giacco, F., Januszzyk, M., Brownlee, et al  
2019; 205: 51–63

- **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
- **In Reply to the Letter to the Editor from Ramkisoensing: Young Versus Adult: Finding Clues to Unravel the Increased Regenerative Ability of Stem Cells from Young Donors.** *Stem cells (Dayton, Ohio)*  
Kosaric, N., Gurtner, G. C.  
2019
- **Single-Cell Transcriptomics of Human Mesenchymal Stem Cells Reveal Age-Related Cellular Subpopulation Depletion and Impaired Regenerative Function** *STEM CELLS*  
Khong, S. M. L., Lee, M., Kosaric, N., Khong, D. M., Dong, Y., Hopfner, U., Aitzetmueller, M. M., Duscher, D., Schaefer, R., Gurtner, G. C.  
2019; 37 (2): 240–46
- **The Interplay of Mechanical Stress, Strain, and Stiffness at the Keloid Periphery Correlates with Increased Caveolin-1/ROCK Signaling and Scar Progression.** *Plastic and reconstructive surgery*  
Dohi, T. n., Padmanabhan, J. n., Akaishi, S. n., Than, P. A., Terashima, M. n., Matsumoto, N. N., Ogawa, R. n., Gurtner, G. C.  
2019; 144 (1): 58e–67e
- **Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds.** *Journal of controlled release : official journal of the Controlled Release Society*  
Duscher, D. n., Trotsyuk, A. A., Maan, Z. N., Kwon, S. H., Rodrigues, M. n., Engel, K. n., Stern-Buchbinder, Z. A., Bonham, C. A., Whittam, A. J., Barrera, J. n., Hu, M. S., Inayathullah, M. n., Rajadas, et al  
2019
- **Stromal Cell-Derived Factor 1 (SDF-1) Signaling and Tissue Homeostasis** *REGENERATIVE MEDICINE AND PLASTIC SURGERY: ELEMENTS, RESEARCH CONCEPTS AND EMERGING TECHNOLOGIES*  
Maan, Z. N., Borrelli, M. R., Houschyar, K., Gurtner, G. C.  
edited by Duscher, D., Shiffman, M. A.  
2019: 47–59
- **Pressure Injury.** *Annals of surgery*  
Hajhosseini, B. n., Longaker, M. T., Gurtner, G. C.  
2019
- **A Matched-Pair Analysis of Prepectoral with Subpectoral Breast Reconstruction: Is There a Difference in Postoperative Complication Rate?** *Plastic and reconstructive surgery*  
Momeni, A. n., Remington, A. C., Wan, D. C., Nguyen, D. n., Gurtner, G. C.  
2019; 144 (4): 801–7
- **Discussion: Recipient-Site Preconditioning with Deferoxamine Increases Fat-Graft Survival by Inducing VEGF and Neovascularization in a Rat Model.** *Plastic and reconstructive surgery*  
Kuehlmann, B. n., Wan, D. C., Gurtner, G. C.  
2019; 144 (4): 630e–631e
- **Microvascular Free Flaps as the Vascularized Foundation for Hepatic Tissue Engineering**  
Than, P., Davis, C., Rustad, K., Mittermiller, P., Findlay, M., Liu, W., Whittam, A., Le, T., Khong, S., Ma, K., Melcher, M., Melcher, M., Gurtner, et al  
WILEY.2019: 21
- **Wound Healing: A Cellular Perspective.** *Physiological reviews*  
Rodrigues, M., Kosaric, N., Bonham, C. A., Gurtner, G. C.  
2019; 99 (1): 665–706
- **WOUND HEALING: A CELLULAR PERSPECTIVE** *PHYSIOLOGICAL REVIEWS*  
Rodrigues, M., Kosaric, N., Bonham, C. A., Gurtner, G. C.  
2019; 99 (1): 665–706
- **Optimization of transdermal deferoxamine leads to enhanced efficacy in healing skin wounds.** *Journal of controlled release : official journal of the Controlled Release Society*

- Duscher, D. n., Trotsyuk, A. A., Maan, Z. N., Kwon, S. H., Rodrigues, M. n., Engel, K. n., Stern-Buchbinder, Z. A., Bonham, C. A., Whittam, A. J., Barrera, J. n., Hu, M. S., Inayathullah, M. n., Rajadas, et al  
2019
- **Single-Cell Transcriptomics of Human Mesenchymal Stem Cells Reveal Age-Related Cellular Subpopulation Depletion and Impaired Regenerative Function.** *Stem cells (Dayton, Ohio)*  
Khong, S. M., Lee, M., Kosaric, N., Khong, D. M., Dong, Y., Hopfner, U., Aitzetmuller, M. M., Duscher, D., Schafer, R., Gurtner, G. C.  
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., Januszyk, M., Brownlee, et al  
2018
  - **Controlled Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Wound Closure with Decreased Scar Formation** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Ma, K., Kwon, S., Padmanabhan, J., Duscher, D., Trotsyuk, A. A., Dong, Y., Inayathullah, M., Rajadas, J., Gurtner, G. C.  
2018; 138 (11): 2452–60
  - **Topical Deferoxamine Alleviates Skin Injury and Normalizes Atomic Force Microscopy Patterns Following Radiation in a Murine Breast Reconstruction Model** *ANNALS OF PLASTIC SURGERY*  
Snider, A. E., Lynn, J. V., Urlaub, K. M., Donneys, A., Polyatskaya, Y., Nelson, N. S., Ettinger, R. E., Gurtner, G. C., Holl, M., Buchman, S. R.  
2018; 81 (5): 604–8
  - **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): 323-332
  - **Disparities as Predictors of Non-Healing in Lower Extremity Wounds**  
George, E. L., Trang, K., Dua, A., Parsley, J. D., Robertson, R., Fukaya, E., Sen, S. K., Gurtner, G. C., Chandra, V.  
ELSEVIER SCIENCE INC.2018: E248
  - **Acceleration of Diabetic Wound Regeneration using an In Situ-Formed Stem-Cell-Based Skin Substitute** *ADVANCED HEALTHCARE MATERIALS*  
Dong, Y., Rodrigues, M., Kwon, S., Li, X., Sigen, A., Brett, E., Elvassore, N., Wang, W., Gurtner, G. C.  
2018; 7 (17): e1800432
  - **A histologically hostile environment made more hospitable?** *NATURE REVIEWS ENDOCRINOLOGY*  
Armstrong, D. G., Gurtner, G. C.  
2018; 14 (9): 511–12
  - **Deferoxamine Can Prevent Pressure Ulcers and Accelerate Healing in Aged Mice.** *Wound repair and regeneration : official publication of the Wound Healing Society [and] the European Tissue Repair Society*  
Bonham, C. A., Rodrigues, M., Galvez, M., Trotsyuk, A., Stern-Buchbinder, Z., Inayathullah, M., Rajadas, J., Gurtner, G. C.  
2018
  - **Topical Deferoxamine Alleviates Skin Injury and Normalizes Atomic Force Microscopy Patterns Following Radiation in a Murine Breast Reconstruction Model.** *Annals of plastic surgery*  
Snider, A. E., Lynn, J. V., Urlaub, K. M., Donneys, A., Polyatskaya, Y., Nelson, N. S., Ettinger, R. E., Gurtner, G. C., Banaszak Holl, M. M., Buchman, S. R.  
2018
  - **Pathway Analysis of Gene Expression in Murine Fetal and Adult Wounds.** *Advances in wound care*  
Hu, M. S., Hong, W. X., 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. P.  
2018; 7 (8): 262-275
  - **TOPICAL DELIVERY OF A FOCAL ADHESION KINASE INHIBITOR RESULTS IN ACCELERATED WOUND HEALING WITH REDUCED SCARRING IN A PORCINE WOUND MODEL**  
Kwon, S., Ma, K., Duscher, D., Padmanabhan, J., Dong, Y., Inayathullah, M., Rajadas, J., Gurtner, G. C.

WILEY.2018: A13

- **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
- **CRISPR-Mediated Genetic Engineering of Human Mesenchymal Stromal Cells for Therapeutic Protein Delivery in Chronic Wounds**  
Srika, W., Kosaric, N., Gurtner, G., Porteus, M.  
CELL PRESS.2018: 33–34
- **Deferoxamine can prevent pressure ulcers and accelerate healing in aged mice** *WOUND REPAIR AND REGENERATION*  
Bonham, C. A., Rodrigues, M., Galvez, M., Trotsyuk, A., Stern-Buchbinder, Z., Inayathullah, M., Rajadas, J., Gurtner, G. C.  
2018; 26 (3): 300–305
- **RNA-Based Combination Therapy for Diabetic Wound Healing**  
Johnston, B. H., Ilves, H., Trotsyuk, A., Rodrigues, M., White, A., Mandell, K., Hammond, P. T., Gurtner, G. C., Dallas, A.  
CELL PRESS.2018: 38–39
- **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
- **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
- **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
- **Acceleration of Diabetic Wound Healing with PHD2- and miR-210-targeting Oligonucleotides.** *Tissue engineering. Part A*  
Dallas, A. n., Trotsyuk, A. n., Ilves, H. n., Bonham, C. A., Rodrigues, M. n., Engel, K. n., Barrera, J. A., Kosaric, N. n., Stern-Buchbinder, Z. A., White, A. n., Mandell, K. J., Hammond, P. n., Mansbridge, et al  
2018
- **Topical Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Wound Healing with Reduced Scarring in a Porcine Wound Model**  
Kwon, S., Ma, K., Duscher, D., Padmanabhan, J., Dong, Y., Inayathullah, M., Rajadas, J., Gurtner, G. C.  
WILEY.2018: A33
- **Pathway Analysis of Gene Expression of E14 Versus E18 Fetal Fibroblasts** *ADVANCES IN WOUND CARE*  
Hu, M. S., Borrelli, M. R., Januszyk, 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. T. M., Duscher, D., Maan, Z. N., Irizarry, D. M., Stephan, B., Parsa, et al  
2018; 7 (1): 11–17
- **Transdermal Deferoxamine Enhances Wound Healing in Aged Mice**  
Bonham, C. A., Rodrigues, M., Trotsyuk, A., Stern-Buchbinder, Z., Inayathullah, M., Rajadas, J., Gurtner, G. C.  
WILEY.2018: A10
- **Allogeneic Cd26/Cd55 Cell Therapy for Treating Burn Wounds**  
Trotsyuk, A., Rodrigues, M., Bonham, C., Mittermiller, P., Gurtner, G.  
WILEY.2018: A9
- **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

- **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
- **Controlled Delivery of a Focal Adhesion Kinase Inhibitor Results in Accelerated Wound Closure with Decreased Scar Formation.** *The Journal of investigative dermatology*  
Ma, K. n., Kwon, S. H., Padmanabhan, J. n., Duscher, D. n., Trotsyuk, A. A., Dong, Y. n., Inayathullah, M. n., Rajadas, J. n., Gurtner, G. C.  
2018
- **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
- **Black, White, and Gray: Macrophages in Skin Repair and Disease** *CURRENT PATHOBIOLOGY REPORTS*  
Rodrigues, M., Gurtner, G. C.  
2017; 5 (4): 333–42
- **Black, White, and Gray: Macrophages in Skin Repair and Disease.** *Current pathobiology reports*  
Rodrigues, M., Gurtner, G.  
2017; 5 (4): 333–42
- **Isotretinoin and Timing of Procedural Interventions A Systematic Review With Consensus Recommendations** *JAMA DERMATOLOGY*  
Spring, L. K., Krakowski, A. C., Alam, M., Bhatia, A., Brauer, J., Cohen, J., Del Rosso, J. Q., Diaz, L., Dover, J., Eichenfield, L. F., Gurtner, G. C., Hanke, C., Jahnke, et al  
2017; 153 (8): 802–9
- **Wound healing outcomes: Using big data and a modified intent-to-treat method as a metric for reporting healing rates** *WOUND REPAIR AND REGENERATION*  
Ennis, W. J., Hoffman, R. A., Gurtner, G. C., Kirsner, R. S., Gordon, H. M.  
2017; 25 (4): 665–72
- **Isolation of CD248-expressing stromal vascular fraction for targeted improvement of wound healing.** *Wound repair and regeneration*  
Brett, E., Zielins, E. R., Chin, M., Januszyk, M., Blackshear, C. P., Findlay, M., Momeni, A., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2017
- **Comparison of the Hydroxylase Inhibitor Dimethyloxalyglycine and the Iron Chelator Deferoxamine in Diabetic and Aged Wound Healing.** *Plastic and reconstructive surgery*  
Duscher, D., Januszyk, M., Maan, Z. N., Whittam, A. J., Hu, M. S., Walmsley, G. G., Dong, Y., Khong, S. M., Longaker, M. T., Gurtner, G. C.  
2017; 139 (3): 695e-706e
- **Excess Dermal Tissue Remodeling In Vivo: Does It Settle?** *Plastic and reconstructive surgery*  
Leavitt, T., Hu, M. S., Zielins, E. R., Barnes, L. A., Marshall, C. D., Wan, D. C., Lorenz, H. P., Gurtner, G. C., Longaker, M. T.  
2017; 139 (2): 415e-424e
- **Is early inflammation good or bad? Linking early immune changes to hypertrophic scarring.** *Experimental dermatology*  
Kwon, S. H., Gurtner, G. C.  
2017; 26 (2): 133-134
- **Pharmacological rescue of diabetic skeletal stem cell niches.** *Science translational medicine*  
Tevlin, R., Seo, E. Y., Marecic, O., McArdle, A., Tong, X., Zimdahl, B., Malkovskiy, A., Sinha, R., Gulati, G., Li, X., Wearda, T., Morganti, R., Lopez, et al  
2017; 9 (372)
- **Pharmacological rescue of diabetic skeletal stem cell niches** *SCIENCE TRANSLATIONAL MEDICINE*  
Tevlin, R., Seo, E., Marecic, O., McArdle, A., Tong, X., Zimdahl, B., Malkovskiy, A., Sinha, R., Gulati, G., Li, X., Wearda, T., Morganti, R., Lopez, et al  
2017; 9 (372)

- **The Abnormal Architecture of Healed Diabetic Ulcers is the Result of FAK Degradation by Calpain 1.** *Journal of Investigative Dermatology*  
Liu, W., Ma, K., Kwon, S. H., Garg, R., Patta, Y. R., Fujiwara, T., Gurtner, G. C.  
2017
- **Age-Associated Intracellular Superoxide Dismutase Deficiency Potentiates Dermal Fibroblast Dysfunction During Wound Healing.** *Experimental Dermatology*  
Fujiwara, T. n., Dohi, T. n., Maan, Z. N., Rustad, K. C., Kwon, S. H., Padmanabhan, J. n., Whittam, A. J., Suga, H. n., Duscher, D. n., Rodrigues, M. n., Gurtner, G. C.  
2017
- **Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair.** *JCI insight*  
Hu, M. S., Walmsley, G. G., Barnes, L. A., Weiskopf, K. n., Rennert, R. C., Duscher, D. n., Januszyk, M. n., Maan, Z. N., Hong, W. X., Cheung, A. T., Leavitt, T. n., Marshall, C. D., Ransom, et al  
2017; 2 (19)
- **The Role of Focal Adhesion Kinase in Keratinocyte Fibrogenic Gene Expression.** *International Journal of Molecular Sciences*  
Januszyk, M. n., Kwon, S. H., Wong, V. W., Padmanabhan, J. n., Maan, Z. N., Whittam, A. J., Major, M. R., Gurtner, G. C.  
2017; 18 (9)
- **Disease models: Method in the madness of fibrosis.** *Nature Materials*  
Gurtner, G. C., Padmanabhan, J. n.  
2017; 16 (12): 1176–77
- **Delivery of monocyte lineage cells in a biomimetic scaffold enhances tissue repair.** *JCI insight*  
Hu, M. S., Walmsley, G. G., Barnes, L. A., Weiskopf, K. n., Rennert, R. C., Duscher, D. n., Januszyk, M. n., Maan, Z. N., Hong, W. X., Cheung, A. T., Leavitt, T. n., Marshall, C. D., Ransom, et al  
2017; 2 (19)
- **Hyperbaric Oxygen Corrects the Peri-Wound Microvascular Flow**  
Sorice, S. C., Lundh, T., Li, A. Y., Rustad, K., Atayan, G. B., Sen, S. K., Chandra, V., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2016: S97–S98
- **External Tissue Expansion: The New Frontier in Nipple Reconstruction**  
Sorice, S. C., Rustad, K., Li, A. Y., Meyer, S., Dung Nguyen, Gurtner, G. C.  
ELSEVIER SCIENCE INC.2016: E162–E163
- **Engrailed-1 Identifies the Fibroblast Lineage Responsible for the Transition from Fetal Scarless to Adult Scarring Cutaneous Wound Repair**  
Hu, M. S., Walmsley, G. G., Maan, Z. N., Sinha, R., Leavitt, T., Marshall, C. D., Weissman, I. L., Gurtner, G. C., Longaker, M. T., Lorenz, H.  
ELSEVIER SCIENCE INC.2016: S96–S97
- **Enhanced Electrochemical Sensing with Carbon Nanotubes Modified with Bismuth and Magnetic Nanoparticles in a Lab-on-a-Chip** *CHEMNANOMAT*  
Jothimuthu, P., Hsu, J. L., Chen, R., Inayathullah, M., Pothineni, V. R., Jan, A., Gurtner, G. C., Rajadas, J., Nicolls, M. R.  
2016; 2 (9): 904-910
- **Enhanced Electrochemical Sensing with Carbon Nanotubes Modified with Bismuth and Magnetic Nanoparticles in a Lab-on-a-Chip.** *ChemNanoMat : chemistry of nanomaterials for energy, biology and more*  
Jothimuthu, P., Hsu, J. L., Chen, R., Inayathullah, M., Pothineni, V. R., Jan, A., Gurtner, G. C., Rajadas, J., Nicolls, M. R.  
2016; 2 (9): 904-910
- **The Role of Stem Cell Therapeutics in Wound Healing: Current Understanding and Future Directions.** *Plastic and reconstructive surgery*  
Sorice, S., Rustad, K. C., Li, A. Y., Gurtner, G. C.  
2016; 138 (3): 31S-41S
- **Protecting Nipple Perfusion by Devascularization and Surgical Delay in Patients at Risk for Ischemic Complications During Nipple-Sparing Mastectomies** *ANNALS OF SURGICAL ONCOLOGY*  
Bertoni, D. M., Dung Nguyen, D., Rochlin, D., Hernandez-Boussard, T., Meyer, S., Choy, N., Gurtner, G. C., Wapnir, I. L.  
2016; 23 (8): 2665-2672

- **Nipple Reconstruction with the Biodesign Nipple Reconstruction Cylinder: A Prospective Clinical Study.** *Plastic and reconstructive surgery. Global open*  
Collins, B., Williams, J. Z., Karu, H., Hodde, J. P., Martin, V. A., Gurtner, G. C.  
2016; 4 (8)
- **Regenerative Medicine: Charting a New Course in Wound Healing** *ADVANCES IN WOUND CARE*  
Gurtner, G. C., Chapman, M.  
2016; 5 (7): 314–28
- **Regenerative Medicine: Charting a New Course in Wound Healing.** *Advances in wound care*  
Gurtner, G. C., Chapman, M. A.  
2016; 5 (7): 314-328
- **Multiple Subsets of Brain Tumor Initiating Cells Coexist in Glioblastoma** *STEM CELLS*  
Rennert, R. C., Achrol, A. S., Januszyk, M., Kahn, S. A., Liu, T. T., Liu, Y., Sahoo, D., Rodrigues, M., Maan, Z. N., Wong, V. W., Cheshier, S. H., Chang, S. D., Steinberg, et al  
2016; 34 (6): 1702-1707
- **Hyperbaric Oxygen Acutely Increases Wound Circulation as Assessed by Fluorescent Angiography**  
Sorice, S., Lundh, T., Gurtner, G. C., Meyer, S., Sen, S., Robertson, R., Parsley, J., Chandra, V.  
MOSBY-ELSEVIER.2016: 100S–101S
- **Microfluidic single-cell transcriptional analysis rationally identifies novel surface marker profiles to enhance cell-based therapies** *NATURE COMMUNICATIONS*  
Rennert, R. C., Januszyk, M., Sorkin, M., Rodrigues, M., Maan, Z. N., Duscher, D., Whittam, A. J., Kosaraju, R., Chung, M. T., Paik, K., Li, A. Y., Findlay, M., Glotzbach, et al  
2016; 7
- **Suction assisted liposuction does not impair the regenerative potential of adipose derived stem cells** *JOURNAL OF TRANSLATIONAL MEDICINE*  
Duscher, D., Luan, A., Rennert, R. C., Atashroo, D., Maan, Z. N., Brett, E. A., Whittam, A. J., Ho, N., Lin, M., Hu, M. S., Walmsley, G. G., Wenny, R., Schmidt, et al  
2016; 14
- **High-Resolution Microfluidic Single-Cell Transcriptional Profiling Reveals Clinically Relevant Subtypes among Human Stem Cell Populations Commonly Utilized in Cell-Based Therapies** *FRONTIERS IN NEUROLOGY*  
Rennert, R. C., Schaefer, R., Bliss, T., Januszyk, M., Sorkin, M., Achrol, A. S., Rodrigues, M., Maan, Z. N., Kluba, T., Steinberg, G. K., Gurtner, G. C.  
2016; 7
- **Cell-Assisted Lipotransfer Improves Volume Retention in Irradiated Recipient Sites and Rescues Radiation-Induced Skin Changes** *STEM CELLS*  
Luan, A., Duscher, D., Whittam, A. J., Paik, K. J., Zielins, E. R., Brett, E. A., Atashroo, D. A., Hu, M. S., Lee, G. K., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2016; 34 (3): 668-673
- **Cell-Assisted Lipotransfer Improves Volume Retention in Irradiated Recipient Sites and Rescues Radiation-Induced Skin Changes.** *Stem cells*  
Luan, A., Duscher, D., Whittam, A. J., Paik, K. J., Zielins, E. R., Brett, E. A., Atashroo, D. A., Hu, M. S., Lee, G. K., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2016; 34 (3): 668-673
- **Surgical Therapies and Tissue Engineering: At the Intersection Between Innovation and Regulation.** *Tissue engineering. Part A*  
Rubin, J. P., Gurtner, G. C., Liu, W., March, K. L., Seppänen-Kajjansinkko, R., Yaszemski, M. J., Yoo, J. J.  
2016; 22 (5-6): 397-400
- **Extracellular superoxide dismutase deficiency impairs wound healing in advanced age by reducing neovascularization and fibroblast function** *EXPERIMENTAL DERMATOLOGY*  
Fujiwara, T., Duscher, D., Rustad, K. C., Kosaraju, R., Rodrigues, M., Whittam, A. J., Januszyk, M., Maan, Z. N., Gurtner, G. C.  
2016; 25 (3): 206-211
- **Extracellular superoxide dismutase deficiency impairs wound healing in advanced age by reducing neovascularization and fibroblast function.** *Experimental dermatology*

- Fujiwara, T., Duscher, D., Rustad, K. C., Kosaraju, R., Rodrigues, M., Whittam, A. J., Januszyk, M., Maan, Z. N., Gurtner, G. C.  
2016; 25 (3): 206-211
- **Ultrasound-Assisted Liposuction Does Not Compromise the Regenerative Potential of Adipose-Derived Stem Cells.** *Stem cells translational medicine*  
Duscher, D., Atashroo, D., Maan, Z. N., Luan, A., Brett, E. A., Barrera, J., Khong, S. M., Zielins, E. R., Whittam, A. J., Hu, M. S., Walmsley, G. G., Pollhammer, M. S., Schmidt, et al  
2016; 5 (2): 248-257
  - **Challenges and Opportunities in Drug Delivery for Wound Healing.** *Advances in wound care*  
Whittam, A. J., Maan, Z. N., Duscher, D., Wong, V. W., Barrera, J. A., Januszyk, M., Gurtner, G. C.  
2016; 5 (2): 79-88
  - **Enrichment of Adipose-Derived Stromal Cells for BMPR1A Facilitates Enhanced Adipogenesis** *TISSUE ENGINEERING PART A*  
Zielins, E. R., Paik, K., Ransom, R. C., Brett, E. A., Blackshear, C. P., Luan, A., Walmsley, G. G., Atashroo, D. A., Senarath-Yapa, K., Momeni, A., Rennert, R., Sorkin, M., Seo, et al  
2016; 22 (3-4): 214-221
  - **Sutureless Microsurgical Anastomosis Using an Optimized Thermoreversible Intravascular Poloxamer Stent.** *Plastic and reconstructive surgery*  
Davis, C. R., Rappleye, C. T., Than, P. A., Rodrigues, M., Findlay, M. W., Bishop, S. N., Whitmore, A. J., Maan, Z. N., McGoldrick, R. B., Grobbelaar, A. O., Gurtner, G. C.  
2016; 137 (2): 546-556
  - **Adipose-Derived Stem Cell-Seeded Hydrogels Increase Endogenous Progenitor Cell Recruitment and Neovascularization in Wounds** *TISSUE ENGINEERING PART A*  
Kosaraju, R., Rennert, R. C., Maan, Z. N., Duscher, D., Barrera, J., Whittam, A. J., Januszyk, M., Rajadas, J., Rodrigues, M., Gurtner, G. C.  
2016; 22 (3-4): 295-305
  - **Murine Dermal Fibroblast Isolation by FACS.** *Journal of visualized experiments : JoVE*  
Walmsley, G. G., Maan, Z. N., Hu, M. S., Atashroo, D. A., Whittam, A. J., Duscher, D., Tevlin, R., Marecic, O., Lorenz, H. P., Gurtner, G. C., Longaker, M. T.  
2016
  - **Murine Dermal Fibroblast Isolation by FACS** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
Walmsley, G. G., Maan, Z. N., Hu, M. S., Atashroo, D. A., Whittam, A. J., Duscher, D., Tevlin, R., Marecic, O., Lorenz, H. P., Gurtner, G. C., Longaker, M. T.  
2016
  - **Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report.** *Journal of nuclear medicine : official publication, Society of Nuclear Medicine*  
Rosenthal, E. L., Warram, J. M., de Boer, E., Basilion, J. P., Biel, M. A., Bogoyo, M., Bouvet, M., Brigman, B. E., Colson, Y. L., DeMeester, S. R., Gurtner, G. C., Ishizawa, T., Jacobs, et al  
2016; 57 (1): 144-150
  - **Surveillance of Stem Cell Fate and Function: A System for Assessing Cell Survival and Collagen Expression In Situ.** *Tissue engineering. Part A*  
Walmsley, G. G., Senarath-Yapa, K., Wearda, T. L., Menon, S., Hu, M. S., Duscher, D., Maan, Z. N., Tsai, J. M., Zielins, E. R., Weissman, I. L., Gurtner, G. C., Lorenz, H. P., Longaker, et al  
2016; 22 (1-2): 31-40
  - **Healing Rates in a Multicenter Assessment of a Sterile, Room Temperature, Acellular Dermal Matrix Versus Conventional Care Wound Management and an Active Comparator in the Treatment of Full-Thickness Diabetic Foot Ulcers.** *Eplasty*  
Robb, G. L., Gurtner, G. C.  
2016; 16: e27
  - **Finding a needle in a "needlestack".** *Cell cycle (Georgetown, Tex.)*  
Rodrigues, M. n., Wong, V. W., Gurtner, G. C.  
2016: 0
  - **Rapid identification of slow healing wounds.** *Wound repair and regeneration*  
Jung, K., Covington, S., Sen, C. K., Januszyk, M., Kirsner, R. S., Gurtner, G. C., Shah, N. H.

2016; 24 (1): 181-188

- **High-Resolution Microfluidic Single-Cell Transcriptional Profiling Reveals Clinically Relevant Subtypes among Human Stem Cell Populations Commonly Utilized in Cell-Based Therapies.** *Frontiers in neurology*  
Rennert, R. C., Schäfer, R., Bliss, T., Januszyk, M., Sorkin, M., Achrol, A. S., Rodrigues, M., Maan, Z. N., Kluba, T., Steinberg, G. K., Gurtner, G. C.  
2016; 7: 41-?
- **Short Hairpin RNA Silencing of PHD-2 Improves Neovascularization and Functional Outcomes in Diabetic Wounds and Ischemic Limbs.** *PLoS one*  
Paik, K. J., Maan, Z. N., Zielins, E. R., Duscher, D., Whittam, A. J., Morrison, S. D., Brett, E. A., Ransom, R. C., Hu, M. S., Wu, J. C., Gurtner, G. C., Longaker, M. T., Wan, et al  
2016; 11 (3)
- **Stem Cells in Wound Healing: The Future of Regenerative Medicine? A Mini-Review.** *Gerontology*  
Duscher, D., Barrera, J., Wong, V. W., Maan, Z. N., Whittam, A. J., Januszyk, M., Gurtner, G. C.  
2016; 62 (2): 216-225
- **Rapid identification of slow healing wounds** *WOUND REPAIR AND REGENERATION*  
Jung, K., Covington, S., Sen, C. K., Januszyk, M., Kirsner, R. S., Gurtner, G. C., Shah, N. H.  
2016; 24 (1): 181-188
- **Successful Translation of Fluorescence Navigation During Oncologic Surgery: A Consensus Report** *JOURNAL OF NUCLEAR MEDICINE*  
Rosenthal, E. L., Warram, J. M., de Boer, E., Basilion, J. P., Biel, M. A., Bogyo, M., Bouvet, M., Brigman, B. E., Colson, Y. L., DeMeester, S. R., Gurtner, G. C., Ishizawa, T., Jacobs, et al  
2016; 57 (1): 144-150
- **Surveillance of Stem Cell Fate and Function: A System for Assessing Cell Survival and Collagen Expression In Situ** *TISSUE ENGINEERING PART A*  
Walmsley, G. G., Senarath-Yapa, K., Wearda, T. L., Menon, S., Hu, M. S., Duscher, D., Maan, Z. N., Tsai, J. M., Zielins, E. R., Weissman, I. L., Gurtner, G. C., Lorenz, H. P., Longaker, et al  
2016; 22 (1-2): 31-40
- **Using intraoperative laser angiography to safeguard nipple perfusion in nipple-sparing mastectomies.** *Gland surgery*  
Dua, M. M., Bertoni, D. M., Nguyen, D., Meyer, S., Gurtner, G. C., Wapnir, I. L.  
2015; 4 (6): 497-505
- **Fibroblast-Specific Deletion of Hypoxia Inducible Factor-1 Critically Impairs Murine Cutaneous Neovascularization and Wound Healing** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Duscher, D., Maan, Z. N., Whittam, A. J., Sorkin, M., Hu, M. S., Walmsley, G. G., Baker, H., Fischer, L. H., Januszyk, M., Wong, V. W., Gurtner, G. C.  
2015; 136 (5): 1004-1013
- **Filamin A Mediates Wound Closure by Promoting Elastic Deformation and Maintenance of Tension in the Collagen Matrix** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Gurtner, G. C., Wong, V. W.  
2015; 135 (11): 2569-71
- **Skeletal Stem Cell Niche Aberrancies Underlie Impaired Fracture Healing in a Mouse Model of Type 2 Diabetes.** *Plastic and reconstructive surgery*  
Tevlin, R., Young Seo, E., Marecic, O., Wearda, T., Mc Ardle, A., Januszyk, M., Gulati, G., Maan, Z., Hu, M. S., Walmsley, G. G., Gurtner, G. C., Chan, C. K., Weissman, et al  
2015; 136 (4): 73-?
- **Wounds outcompete tumors for neovascularization**  
Hu, M. S., Maan, Z. N., Hong, W., Walmsley, G. G., Rennert, R. C., Atashroo, D., Gurtner, G. C., Giaccia, A. J., Lorenz, H., Longaker, M. T.  
ELSEVIER SCIENCE INC.2015: E124
- **Delivery of Macrophages in a Biomimetic Scaffold Accelerates Diabetic Wound Healing Through Enhanced Angiogenesis**  
Walmsley, G. G., Hu, M. S., Duscher, D., Januszyk, M., Maan, Z. N., Senarath-Yapa, K., Tevlin, R., Zielins, E. R., Gurtner, G. C., Longaker, M. T.  
ELSEVIER SCIENCE INC.2015: S113-S114
- **Impairment in Fracture Healing in a Mouse Model of Type 2 Diabetes Is Driven by Skeletal Stem Cell Niche Dysregulation**  
Tevlin, R., Seo, E., Mc Ardle, A., Tong, X., Januszyk, M., Yang, F., Gurtner, G. C., Chan, C. K. F., Weissman, I. L., Longaker, M. T.

ELSEVIER SCIENCE INC.2015: S115

- **Microfluidic single cell transcriptional analysis reveals subpopulations of adipose derived stromal cells with enhanced angiogenic potential**  
Zielins, E. R., Januszyk, M., Luan, A., Brett, E. A., Paik, K., Walmsley, G. G., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
ELSEVIER SCIENCE INC.2015: E26
- **Progenitor Cell Dysfunctions Underlie Some Diabetic Complications** *AMERICAN JOURNAL OF PATHOLOGY*  
Rodrigues, M., Wong, V. W., Rennert, R. C., Davis, C. R., Longaker, M. T., Gurtner, G. C.  
2015; 185 (10): 2607-2618
- **Microfluidic single cell transcriptional analysis reveals subpopulations of adipose derived stromal cells with enhanced angiogenic potential**  
Zielins, E. R., Januszyk, M., Luan, A., Brett, E. A., Paik, K., Walmsley, G. G., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
ELSEVIER SCIENCE INC.2015: E26
- **Progenitor Cell Dysfunctions Underlie Some Diabetic Complications** *AMERICAN JOURNAL OF PATHOLOGY*  
Rodrigues, M., Wong, V. W., Rennert, R. C., Davis, C. R., Longaker, M. T., Gurtner, G. C.  
2015; 185 (10): 2607-2618
- **High-Throughput Screening of Surface Marker Expression on Undifferentiated and Differentiated Human Adipose-Derived Stromal Cells** *TISSUE ENGINEERING PART A*  
Walmsley, G. G., Atashroo, D. A., Maan, Z. N., Hu, M. S., Zielins, E. R., Tsai, J. M., Duscher, D., Paik, K., Tevlin, R., Marecic, O., Wan, D. C., Gurtner, G. C., Longaker, et al  
2015; 21 (15-16): 2281-2291
- **Studies in Fat Grafting: Part V. Cell-Assisted Lipotransfer to Enhance Fat Graft Retention Is Dose Dependent** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Paik, K. J., Zielins, E. R., Atashroo, D. A., Maan, Z. N., Duscher, D., Luan, A., Walmsley, G. G., Momeni, A., Vistnes, S., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2015; 136 (1): 67-75
- **The Foreign Body Response: At the Interface of Surgery and Bioengineering** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Major, M. R., Wong, V. W., Nelson, E. R., Longaker, M. T., Gurtner, G. C.  
2015; 135 (5): 1489-1498
- **Nipple Perfusion Is Preserved by Staged Devascularization in High-Risk Nipple-Sparing Mastectomies**  
Bertoni, D. M., Nguyen, D., Rochlin, D., Choy, N., Gurtner, G., Wapnir, I.  
SPRINGER.2015: 35-36
- **Identification and isolation of a dermal lineage with intrinsic fibrogenic potential** *SCIENCE*  
Rinkevich, Y., Walmsley, G. G., Hu, M. S., Maan, Z. N., Newman, A. M., Drukker, M., Januszyk, M., Krampitz, G. W., Gurtner, G. C., Lorenz, H. P., Weissman, I. L., Longaker, M. T.  
2015; 348 (6232): 302-?
- **Skin fibrosis. Identification and isolation of a dermal lineage with intrinsic fibrogenic potential.** *Science*  
Rinkevich, Y., Walmsley, G. G., Hu, M. S., Maan, Z. N., Newman, A. M., Drukker, M., Januszyk, M., Krampitz, G. W., Gurtner, G. C., Lorenz, H. P., Weissman, I. L., Longaker, M. T.  
2015; 348 (6232)
- **Studies in Fat Grafting: Part IV. Adipose-Derived Stromal Cell Gene Expression in Cell-Assisted Lipotransfer** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Garza, R. M., Rennert, R. C., Paik, K. J., Atashroo, D., Chung, M. T., Duscher, D., Januszyk, M., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2015; 135 (4): 1045-1055
- **Discussion: No Efficacy for Silicone Gel Sheeting in Prevention of Abnormal Scar Formation in Children with Cancer: A Randomized Controlled Trial** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Gurtner, G. C.  
2015; 135 (4): 1095-96
- **Scarless wound healing: chasing the holy grail.** *Plastic and reconstructive surgery*

- Walmsley, G. G., Maan, Z. N., Wong, V. W., Duscher, D., Hu, M. S., Zielins, E. R., Wearda, T., Muhonen, E., McArdle, A., Tevlin, R., Atashroo, D. A., Senarath-Yapa, K., Lorenz, et al  
2015; 135 (3): 907-917
- **Live Fibroblast Harvest Reveals Surface Marker Shift In Vitro** *TISSUE ENGINEERING PART C-METHODS*  
Walmsley, G. G., Rinkevich, Y., Hu, M. S., Montoro, D. T., Lo, D. D., McArdle, A., Maan, Z. N., Morrison, S. D., Duscher, D., Whittam, A. J., Wong, V. W., Weissman, I. L., Gurtner, et al  
2015; 21 (3): 314-321
  - **Exercise induces stromal cell-derived factor-1a-mediated release of endothelial progenitor cells with increased vasculogenic function.** *Plastic and reconstructive surgery*  
Chang, E., Paterno, J., Duscher, D., Maan, Z. N., Chen, J. S., Januszyk, M., Rodrigues, M., Rennert, R. C., Bishop, S., Whitmore, A. J., Whittam, A. J., Longaker, M. T., Gurtner, et al  
2015; 135 (2): 340e-50e
  - **Reply: Studies in fat grafting: part I. Effects of injection technique on in vitro fat viability and in vivo volume retention; and studies in fat grafting: part II. Effects of injection mechanics on material properties of fat.** *Plastic and reconstructive surgery*  
Wan, D. C., Gurtner, G. C., Longaker, M. T.  
2015; 135 (2): 448e-9e
  - **Cell recruitment by amnion chorion grafts promotes neovascularization** *JOURNAL OF SURGICAL RESEARCH*  
Maan, Z. N., Rennert, R. C., Koob, T. J., Januszyk, M., Li, W. W., Gurtner, G. C.  
2015; 193 (2): 953-962
  - **Transdermal deferoxamine prevents pressure-induced diabetic ulcers.** *Proceedings of the National Academy of Sciences of the United States of America*  
Duscher, D., Neofytou, E., Wong, V. W., Maan, Z. N., Rennert, R. C., Inayathullah, M., Januszyk, M., Rodrigues, M., Malkovskiy, A. V., Whitmore, A. J., Walmsley, G. G., Galvez, M. G., Whittam, et al  
2015; 112 (1): 94-99
  - **Impact of surgical innovation on tissue repair in the surgical patient.** *British journal of surgery*  
Tevlin, R., Atashroo, D., Duscher, D., Mc Ardle, A., Gurtner, G. C., Wan, D. C., Longaker, M. T.  
2015; 102 (2): e41-55
  - **Evaluating the Effect of Cell Culture on Gene Expression in Primary Tissue Samples Using Microfluidic-Based Single Cell Transcriptional Analysis.** *Microarrays (Basel, Switzerland)*  
Januszyk, M., Rennert, R. C., Sorkin, M., Maan, Z. N., Wong, L. K., Whittam, A. J., Whitmore, A., Duscher, D., Gurtner, G. C.  
2015; 4 (4): 540-550
  - **A rapid crosslinking injectable hydrogel for stem cell delivery, from multifunctional hyperbranched polymers via RAFT homopolymerization of PEGDA** *POLYMER CHEMISTRY*  
Dong, Y., Qin, Y., Dubaa, M., Killion, J., Gao, Y., Zhao, T., Zhou, D., Duscher, D., Geever, L., Gurtner, G. C., Wang, W.  
2015; 6 (34): 6182-6192
  - **Impact of surgical innovation on tissue repair in the surgical patient.** *British journal of surgery*  
Tevlin, R., Atashroo, D., Duscher, D., Mc Ardle, A., Gurtner, G. C., Wan, D. C., Longaker, M. T.  
2015; 102 (2): e41-55
  - **Loss of Keratinocyte Focal Adhesion Kinase Stimulates Dermal Proteolysis Through Upregulation of MMP9 in Wound Healing** *ANNALS OF SURGERY*  
Wong, V. W., Garg, R. K., Sorkin, M., Rustad, K. C., Akaishi, S., Levi, K., Nelson, E. R., Tran, M., Rennert, R., Liu, W., Longaker, M. T., Dauskardt, R. H., Gurtner, et al  
2014; 260 (6): 1138-1146
  - **Loss of keratinocyte focal adhesion kinase stimulates dermal proteolysis through upregulation of MMP9 in wound healing.** *Annals of surgery*  
Wong, V. W., Garg, R. K., Sorkin, M., Rustad, K. C., Akaishi, S., Levi, K., Nelson, E. R., Tran, M., Rennert, R., Liu, W., Longaker, M. T., Dauskardt, R. H., Gurtner, et al  
2014; 260 (6): 1138-1146
  - **Aging disrupts cell subpopulation dynamics and diminishes the function of mesenchymal stem cells** *SCIENTIFIC REPORTS*

- Duscher, D., Rennert, R. C., Januszyk, M., Anghel, E., Maan, Z. N., Whittam, A. J., Perez, M. G., Kosaraju, R., Hu, M. S., Walmsley, G. G., Atashroo, D., Khong, S., Butte, et al  
2014; 4
- **Reply: tension shielding with the embrace device: does it really improve scars?** *Plastic and reconstructive surgery*  
Gurtner, G. C., Longaker, M. T.  
2014; 134 (4): 664e-6e
  - **A Randomized Controlled Trial of the embrace Advanced Scar Therapy Device to Reduce Incisional Scar Formation.** *Plastic and reconstructive surgery*  
Longaker, M. T., Rohrich, R. J., Greenberg, L., Furnas, H., Wald, R., Bansal, V., Seify, H., Tran, A., Weston, J., Korman, J. M., Chan, R., Kaufman, D., Dev, et al  
2014; 134 (3): 536-546
  - **Organ-Level Autologous Tissue Engineering by Endothelium-Sparing Decellularization of the Groin Flap**  
Findlay, M. W., Than, P., Raghvendra, S., Liu, W., Duscher, D., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2014: S141
  - **Transdermal Drug Delivery of Deferoxamine Accelerates Healing and Improves Quality of Diabetic Wounds**  
Duscher, D., Maan, Z. N., Whittam, A. J., Rodrigues, M., Whitmore, A. J., Davis, C. R., Walmsley, G. G., Hu, M. S., Rajadas, J., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2014: S134–S135
  - **Impaired Angiogenesis: A Critical Contributor to Problematic Fracture Healing in Diabetes**  
Tevlin, R., Mc Ardle, A., Senarath-Yapa, K., Rodrigues, M., Maan, Z. N., Li, S., Chan, C. K., Brunski, J., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2014: S83
  - **Reduced Regenerative Capacity of Aged Adipose Derived Stem Cells is Caused by Alterations of Cell Subpopulation Dynamics**  
Duscher, D., Rennert, R. C., Januszyk, M., Maan, Z. N., Whittam, A. J., Hu, M. S., Walmsley, G. G., Atashroo, D., Longaker, M. T., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2014: S136
  - **Endothelial Cell Derived Stromal-Derived Factor-1 (SDF-1) Regulates Neovascularization and Fibroblast Physiology in Response to Ischemia**  
Maan, Z. N., Whittam, A. J., Duscher, D., Hu, M. S., Rennert, R. C., Fischer, L. H., Walmsley, G. G., Whitmore, A. J., Longaker, M. T., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2014: S82
  - **Understanding regulatory pathways of neovascularization in diabetes.** *Expert review of endocrinology & metabolism*  
Maan, Z. N., Rodrigues, M., Rennert, R. C., Whitmore, A., Duscher, D., Januszyk, M., Hu, M., Whittam, A. J., Davis, C. R., Gurtner, G. C.  
2014; 9 (5): 487-501
  - **Capillary force seeding of hydrogels for adipose-derived stem cell delivery in wounds.** *Stem cells translational medicine*  
Garg, R. K., Rennert, R. C., Duscher, D., Sorkin, M., Kosaraju, R., Auerbach, L. J., Lennon, J., Chung, M. T., Paik, K., Nimpf, J., Rajadas, J., Longaker, M. T., Gurtner, et al  
2014; 3 (9): 1079-1089
  - **Noncontact, low-frequency ultrasound therapy enhances neovascularization and wound healing in diabetic mice.** *Plastic and reconstructive surgery*  
Maan, Z. N., Januszyk, M., Rennert, R. C., Duscher, D., Rodrigues, M., Fujiwara, T., Ho, N., Whitmore, A., Hu, M. S., Longaker, M. T., Gurtner, G. C.  
2014; 134 (3): 402e-11e
  - **The role of stem cells in aesthetic surgery: fact or fiction?** *Plastic and reconstructive surgery*  
McArdle, A., Senarath-Yapa, K., Walmsley, G. G., Hu, M., Atashroo, D. A., Tevlin, R., Zielins, E., Gurtner, G. C., Wan, D. C., Longaker, M. T.  
2014; 134 (2): 193-200
  - **Studies in Fat Grafting: Part III. Fat Grafting Irradiated Tissue-Improved Skin Quality and Decreased Fat Graft Retention.** *Plastic and reconstructive surgery*  
Garza, R. M., Paik, K. J., Chung, M. T., Duscher, D., Gurtner, G. C., Longaker, M. T., Wan, D. C.  
2014; 134 (2): 249-257
  - **Studies in Fat Grafting: Part II. Effects of Injection Mechanics on Material Properties of Fat** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Atashroo, D., Raphael, J., Chung, M. T., Paik, K. J., Parisi-Amon, A., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C., Walmsley, G. G., Hu, M. S., Momeni, et al

2014; 134 (1): 39-46

- **Discussion: Osteoblastic Differentiation of Wharton Jelly Biopsy Specimens and Their Mesenchymal Stromal Cells after Serum-Free Culture** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Than, P. A., Gurtner, G. C.  
2014; 134 (1): 70E-71E
- **Studies in fat grafting: Part II. Effects of injection mechanics on material properties of fat.** *Plastic and reconstructive surgery*  
Atashroo, D., Raphel, J., Chung, M. T., Paik, K. J., Parisi-Amon, A., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C., Walmsley, G. G., Hu, M. S., Momeni, et al  
2014; 134 (1): 39-46
- **Studies in fat grafting: Part I. Effects of injection technique on in vitro fat viability and in vivo volume retention.** *Plastic and reconstructive surgery*  
Chung, M. T., Paik, K. J., Atashroo, D. A., Hyun, J. S., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C., Hu, M. S., Walmsley, G. G., Parisi-Amon, A., Momeni, et al  
2014; 134 (1): 29-38
- **Gene expression in fetal murine keratinocytes and fibroblasts** *JOURNAL OF SURGICAL RESEARCH*  
Hu, M. S., Januszyk, M., Hong, W. X., Walmsley, G. G., Zielins, E. R., Atashroo, D. A., Maan, Z. N., McArdle, A., Takamishi, D. M., Gurtner, G. C., Longaker, M. T., Lorenz, H. P.  
2014; 190 (1): 344-357
- **Studies in Fat Grafting: Part I. Effects of Injection Technique on In Vitro Fat Viability and In Vivo Volume Retention** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Chung, M. T., Paik, K. J., Atashroo, D. A., Hyun, J. S., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C., Hu, M. S., Walmsley, G. G., Parisi-Amon, A., Momeni, et al  
2014; 134 (1): 29-38
- **Mechanotransduction and fibrosis** *JOURNAL OF BIOMECHANICS*  
Duscher, D., Maan, Z. N., Wong, V. W., Rennert, R. C., Januszyk, M., Rodrigues, M., Hu, M., Whitmore, A. J., Whittam, A. J., Longaker, M. T., Gurtner, G. C.  
2014; 47 (9): 1997-2005
- **Diabetes impairs the angiogenic potential of adipose-derived stem cells by selectively depleting cellular subpopulations** *STEM CELL RESEARCH & THERAPY*  
Rennert, R. C., Sorkin, M., Januszyk, M., Duscher, D., Kosaraju, R., Chung, M. T., Lennon, J., Radiya-Dixit, A., Raghvendra, S., Maan, Z. N., Hu, M. S., Rajadas, J., Rodrigues, et al  
2014; 5
- **Transcriptional profiling of rapamycin-treated fibroblasts from hypertrophic and keloid scars.** *Annals of plastic surgery*  
Wong, V. W., You, F., Januszyk, M., Gurtner, G. C., Kuang, A. A.  
2014; 72 (6): 711-719
- **Poly-L-Arginine Topical Lotion Tested in a Mouse Model for Frostbite Injury.** *Wilderness & environmental medicine*  
Auerbach, L. J., DeClerk, B. K., Garrison Fathman, C., Gurtner, G. C., Auerbach, P. S.  
2014; 25 (2): 160-165
- **A histological and mechanical analysis of the cardiac lead-tissue interface: implications for lead extraction.** *Acta biomaterialia*  
Rennert, R. C., Rustad, K., Levi, K., Harwood, M., Sorkin, M., Wong, V. W., Al-Ahmad, A., Zei, P., Hsia, H., Beygui, R. E., Norton, L., Wang, P., Gurtner, et al  
2014; 10 (5): 2200-2208
- **The Role of Hypoxia-Inducible Factor in Wound Healing** *ADVANCES IN WOUND CARE*  
Hong, W., Hu, M. S., Esquivel, M., Liang, G. Y., Rennert, R. C., McArdle, A., Paik, K. J., Duscher, D., Gurtner, G. C., Lorenz, H., Longaker, M. T.  
2014; 3 (5): 390-99
- **The Role of Hypoxia-Inducible Factor in Wound Healing.** *Advances in wound care*  
Hong, W. X., Hu, M. S., Esquivel, M., Liang, G. Y., Rennert, R. C., McArdle, A., Paik, K. J., Duscher, D., Gurtner, G. C., Lorenz, H. P., Longaker, M. T.  
2014; 3 (5): 390-399

- **The Stanford Microsurgery and Resident Training (SMaRT) Scale: Validation of an On-Line Global Rating Scale for Technical Assessment.** *Annals of plastic surgery*  
Satterwhite, T., Son, J., Carey, J., Echo, A., Spurling, T., Paro, J., Gurtner, G., Chang, J., Lee, G. K.  
2014; 72: S84-8
- **The Stanford Microsurgery and Resident Training (SMaRT) Scale: validation of an on-line global rating scale for technical assessment.** *Annals of plastic surgery*  
Satterwhite, T., Son, J., Carey, J., Echo, A., Spurling, T., Paro, J., Gurtner, G., Chang, J., Lee, G. K.  
2014; 72: S84-8
- **Mechanical offloading of incisional wounds is associated with transcriptional downregulation of inflammatory pathways in a large animal model** *ORGANOGENESIS*  
Januszyk, M., Wong, V. W., Bhatt, K. A., Vial, I. N., Paterno, J., Longaker, M. T., Gurtner, G. C.  
2014; 10 (2): 186-193
- **Mechanotransduction and fibrosis.** *Journal of biomechanics*  
Duscher, D., Maan, Z. N., Wong, V. W., Rennert, R. C., Januszyk, M., Rodrigues, M., Hu, M., Whitmore, A. J., Whittam, A. J., Longaker, M. T., Gurtner, G. C.  
2014
- **Abstract 151: short hairpin RNA interference therapy for diabetic murine wound closure and hindlimb ischemia.** *Plastic and reconstructive surgery*  
Paik, K. J., Rennert, R., Chung, M. T., Sorkin, M., Duscher, D., Atashroo, D., Chen, H., Morrison, S. D., Zimmermann, A., Nauta, A., Ko, S., Tevlin, R., Zielins, et al  
2014; 133 (3): 167-168
- **Abstract 8: SDF-1 Regulates Adipose Niche Homeostasis and Adipose Derived Stromal Cell Function.** *Plastic and reconstructive surgery*  
Maan, Z. N., Rennert, R. C., Duscher, D., Januszyk, M., Paik, K., Chung, M. T., Paik, K., Fujiwara, T., Rodrigues, M., Ho, N., Baker, H., Perez, M., Hu, et al  
2014; 133 (3): 15-16
- **Abstract 10: Global and Endothelial Cell Specific Deletion of SDF-1 Results in Delayed Wound Healing.** *Plastic and reconstructive surgery*  
Maan, Z. N., Ho, N., Rennert, R. C., Duscher, D., Sorkin, M., Rodrigues, M., Chen, J., Vial, I. N., Januszyk, M., Findlay, M., Hu, M., Walmsley, G., Longaker, et al  
2014; 133 (3): 20-?
- **Abstract 33: Stress Offloading through Mechanomodulation is Associated with Down-Regulation of Inflammatory Pathways in a Large Animal Model.** *Plastic and reconstructive surgery*  
Januszyk, M., Wong, V. W., Bhatt, K., Vial, I. N., Dauskardt, R., Longaker, M. T., Gurtner, G. C.  
2014; 133 (3): 44-?
- **Abstract 15: Characterization of the Endothelial Progenitor Cell from Adult Tissue using Vav/Cre RFP-GFP Murine Model and Single Cell Microfluidics.** *Plastic and reconstructive surgery*  
Rodrigues, M., Rennert, R. C., Bishop, S., Januszyk, M., Maan, Z., Sorkin, M., Duscher, D., Gurtner, G. C.  
2014; 133 (3): 25-?
- **Gene expression in fetal murine keratinocytes and fibroblasts.** *The Journal of surgical research*  
Hu, M. S., Januszyk, M., Hong, W. X., Walmsley, G. G., Zielins, E. R., Atashroo, D. A., Maan, Z. N., McArdle, A., Takahashi, D. M., Gurtner, G. C., Longaker, M. T., Lorenz, H. P.  
2014
- **Reduced BMPR2 expression induces GM-CSF translation and macrophage recruitment in humans and mice to exacerbate pulmonary hypertension.** *journal of experimental medicine*  
Sawada, H., Saito, T., Nickel, N. P., Alastalo, T., Glotzbach, J. P., Chan, R., Haghghat, L., Fuchs, G., Januszyk, M., Cao, A., Lai, Y., Perez, V. d., Kim, et al  
2014; 211 (2): 263-280
- **Paracrine Mechanism of Angiogenesis in Adipose-Derived Stem Cell Transplantation** *ANNALS OF PLASTIC SURGERY*  
Suga, H., Glotzbach, J. P., Sorkin, M., Longaker, M. T., Gurtner, G. C.  
2014; 72 (2): 234-241

- **The embrace Device Significantly Decreases Scarring following Scar Revision Surgery in a Randomized Controlled Trial.** *Plastic and reconstructive surgery*  
Lim, A. F., Weintraub, J., Kaplan, E. N., Januszky, M., Cowley, C., McLaughlin, P., Beasley, B., Gurtner, G. C., Longaker, M. T.  
2014; 133 (2): 398-405
- **Epidermal or Dermal Specific Knockout of PHD-2 Enhances Wound Healing and Minimizes Ischemic Injury.** *PloS one*  
Zimmermann, A. S., Morrison, S. D., Hu, M. S., Li, S., Nauta, A., Sorkin, M., Meyer, N. P., Walmsley, G. G., Maan, Z. N., Chan, D. A., Gurtner, G. C., Giaccia, A. J., Longaker, et al  
2014; 9 (4)
- **Sutureless Microvascular Anastomosis for Clinical Application Using Poloxamer 188 as an Optimal Transient Thermoreversible Stent** *Journal of the American College of Surgeons*  
Davis, C. R., Rappleye, T. C., Than, P., Whitmore, A., Maan, Z. N., Rodrigues, M., Bishop, S., Gurtner, G. C.  
2014; 219 (3): S89
- **Wound healing: an update.** *Regenerative medicine*  
Zielins, E. R., Atashroo, D. A., Maan, Z. N., Duscher, D., Walmsley, G. G., Hu, M., Senarath-Yapa, K., McArdle, A., Tevlin, R., Wearda, T., Paik, K. J., Duldulao, C., Hong, et al  
2014; 9 (6): 817-830
- **Understanding regulatory pathways of neovascularization in diabetes** *EXPERT REVIEW OF ENDOCRINOLOGY & METABOLISM*  
Maan, Z. N., Rodrigues, M., Rennert, R. C., Whitmore, A., Duscher, D., Januszky, M., Hu, M., Whittam, A. J., Davis, C. R., Gurtner, G. C.  
2014; 9 (5): 487-501
- **Diabetes impairs the angiogenic potential of adipose-derived stem cells by selectively depleting cellular subpopulations.** *Stem cell research & therapy*  
Rennert, R. C., Sorkin, M., Januszky, M., Duscher, D., Kosaraju, R., Chung, M. T., Lennon, J., Radiya-Dixit, A., Raghvendra, S., Maan, Z. N., Hu, M. S., Rajadas, J., Rodrigues, et al  
2014; 5 (3): 79-?
- **Epidermal or dermal specific knockout of PHD-2 enhances wound healing and minimizes ischemic injury.** *PloS one*  
Zimmermann, A. S., Morrison, S. D., Hu, M. S., Li, S., Nauta, A., Sorkin, M., Meyer, N. P., Walmsley, G. G., Maan, Z. N., Chan, D. A., Gurtner, G. C., Giaccia, A. J., Longaker, et al  
2014; 9 (4)
- **Angiogenic properties of dehydrated human amnion/chorion allografts: therapeutic potential for soft tissue repair and regeneration.** *Vascular cell*  
Koob, T. J., Lim, J. J., Masee, M., Zabek, N., Rennert, R., Gurtner, G., Li, W. W.  
2014; 6: 10-?
- **Organ-Level Tissue Engineering Using Bioreactor Systems and Stem Cells: Implications for Transplant Surgery** *CURRENT STEM CELL RESEARCH & THERAPY*  
Rennert, R. C., Sorkin, M., Wong, V. W., Gurtner, G. C.  
2014; 9 (1): 2-9
- **Aging disrupts cell subpopulation dynamics and diminishes the function of mesenchymal stem cells.** *Scientific reports*  
Duscher, D., Rennert, R. C., Januszky, M., Anghel, E., Maan, Z. N., Whittam, A. J., Perez, M. G., Kosaraju, R., Hu, M. S., Walmsley, G. G., Atashroo, D., Khong, S., Butte, et al  
2014; 4: 7144-?
- **Wound healing: an update** *REGENERATIVE MEDICINE*  
Zielins, E. R., Atashroo, D. A., Maan, Z. N., Duscher, D., Walmsley, G. G., Marecic, O., Hu, M., Senarath-Yapa, K., McArdle, A., Tevlin, R., Wearda, T., Paik, K. J., Duldulao, et al  
2014; 9 (6): 817-830
- **Intraoperative imaging of nipple perfusion patterns and ischemic complications in nipple-sparing mastectomies.** *Annals of surgical oncology*  
Wapnir, I., Dua, M., Kieryn, A., Paro, J., Morrison, D., Kahn, D., Meyer, S., Gurtner, G.  
2014; 21 (1): 100-106
- **From Germ Theory to Germ Therapy: Skin Microbiota, Chronic Wounds, and Probiotics** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Wong, V. W., Martindale, R. G., Longaker, M. T., Gurtner, G. C.

2013; 132 (5): 854E-861E

- **Biological therapies for the treatment of cutaneous wounds: phase III and launched therapies.** *Expert opinion on biological therapy*  
Rennert, R. C., Rodrigues, M., Wong, V. W., Duscher, D., Hu, M., Maan, Z., Sorkin, M., Gurtner, G. C., Longaker, M. T.  
2013; 13 (11): 1523-1541
- **High-Throughput Single-Cell Analysis for Wound Healing Applications.** *Advances in wound care*  
Januszyk, M., Gurtner, G. C.  
2013; 2 (9): 457-469
- **Biological therapies for the treatment of cutaneous wounds: Phase III and launched therapies** *EXPERT OPINION ON BIOLOGICAL THERAPY*  
Rennert, R. C., Rodrigues, M., Wong, V. W., Duscher, D., Hu, M., Maan, Z., Sorkin, M., Gurtner, G. C., Longaker, M. T.  
2013; 13 (11): 1523-1541
- **The role of focal adhesion complexes in fibroblast mechanotransduction during scar formation** *DIFFERENTIATION*  
Rustad, K. C., Wong, V. W., Gurtner, G. C.  
2013; 86 (3): 87-91
- **Nipple Reconstruction: Risk Factors and Complications after 189 Procedures.** *European journal of plastic surgery*  
Momeni, A., Ghaly, M., Gupta, D., Karanas, Y. L., Kahn, D. M., Gurtner, G. C., Lee, G. K.  
2013; 36 (10): 633-638
- **Biological properties of dehydrated human amnion/chorion composite graft: implications for chronic wound healing** *INTERNATIONAL WOUND JOURNAL*  
Koob, T. J., Rennert, R., Zabek, N., Masee, M., Lim, J. J., Temenoff, J. S., Li, W. W., Gurtner, G.  
2013; 10 (5): 493-500
- **Isolation of human adipose-derived stromal cells using laser-assisted liposuction and their therapeutic potential in regenerative medicine.** *Stem cells translational medicine*  
Chung, M. T., Zimmermann, A. S., Paik, K. J., Morrison, S. D., Hyun, J. S., Lo, D. D., McArdle, A., Montoro, D. T., Walmsley, G. G., Senarath-Yapa, K., Sorkin, M., Rennert, R., Chen, et al  
2013; 2 (10): 808-817
- **Enabling stem cell therapies for tissue repair: Current and future challenges** *BIOTECHNOLOGY ADVANCES*  
Wong, V. W., Sorkin, M., Gurtner, G. C.  
2013; 31 (5): 744-751
- **Cell surface marker profiling of human adipose derived stem cells using single cell transcriptional analysis identifies heterogeneous subpopulations**  
Sorkin, M., Rennert, R. C., Januszyk, M., Glotzbach, J. P., Chung, M. T., Longaker, M. T., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2013: S96-S97
- **Nipple reconstruction after implant-based breast reconstruction: A "matched-pair" outcome analysis focusing on the effects of radiotherapy.** *Journal of plastic, reconstructive & aesthetic surgery : JPRAS*  
Momeni, A., Ghaly, M., Gupta, D., Gurtner, G., Kahn, D. M., Karanas, Y. L., Lee, G. K.  
2013; 66 (9): 1202-1205
- **Molecular analysis and differentiation capacity of adipose-derived stem cells from lymphedema tissue.** *Plastic and reconstructive surgery*  
Levi, B., Glotzbach, J. P., Sorkin, M., Hyun, J., Januszyk, M., Wan, D. C., Li, S., Nelson, E. R., Longaker, M. T., Gurtner, G. C.  
2013; 132 (3): 580-589
- **Wound healing: a paradigm for regeneration.** *Mayo Clinic proceedings. Mayo Clinic*  
Wong, V. W., Gurtner, G. C., Longaker, M. T.  
2013; 88 (9): 1022-1031
- **Molecular analysis and differentiation capacity of adipose-derived stem cells from lymphedema tissue.** *Plastic and reconstructive surgery*  
Levi, B., Glotzbach, J. P., Sorkin, M., Hyun, J., Januszyk, M., Wan, D. C., Li, S., Nelson, E. R., Longaker, M. T., Gurtner, G. C.  
2013; 132 (3): 580-589
- **Direct contact of fibroblasts with neuronal processes promotes differentiation to myofibroblasts and induces contraction of collagen matrix in vitro** *WOUND REPAIR AND REGENERATION*

- Fujiwara, T., Kubo, T., Kanazawa, S., Shingaki, K., Taniguchi, M., Matsuzaki, S., Gurtner, G. C., Tohyama, M., Hosokawa, K.  
2013; 21 (4): 588-594
- **A novel mouse model for frostbite injury.** *Wilderness & environmental medicine*  
Auerbach, L. J., Galvez, M. G., De Clerck, B. K., Glotzbach, J., Wehner, M. R., Chang, E. I., Gurtner, G. C., Auerbach, P. S.  
2013; 24 (2): 94-104
  - **A Mechanomodulatory Device to Minimize Incisional Scar Formation.** *Advances in wound care*  
Wong, V. W., Beasley, B., Zepeda, J., Dauskardt, R. H., Yock, P. G., Longaker, M. T., Gurtner, G. C.  
2013; 2 (4): 185-194
  - **A Mechanomodulatory Device to Minimize Incisional Scar Formation** *ADVANCES IN WOUND CARE*  
Wong, V. W., Beasley, B., Zepeda, J., Dauskardt, R. H., Yock, P. G., Longaker, M. T., Gurtner, G. C.  
2013; 2 (4): 185-94
  - **Paracrine Mechanism of Angiogenesis in Adipose-Derived Stem Cell Transplantation.** *Annals of plastic surgery*  
Suga, H., Glotzbach, J. P., Sorkin, M., Longaker, M. T., Gurtner, G. C.  
2013
  - **Adipose-derived Stromal Cells Overexpressing Vascular Endothelial Growth Factor Accelerate Mouse Excisional Wound Healing** *MOLECULAR THERAPY*  
Nauta, A., Seidel, C., Deveza, L., Montoro, D., Grova, M., Ko, S. H., Hyun, J., Gurtner, G. C., Longaker, M. T., Yang, F.  
2013; 21 (2): 445-455
  - **Cellular response to a novel fetal acellular collagen matrix: implications for tissue regeneration.** *International journal of biomaterials*  
Rennert, R. C., Sorkin, M., Garg, R. K., Januszyk, M., Gurtner, G. C.  
2013; 2013: 527957-?
  - **Adult stem cells in small animal wound healing models.** *Methods in molecular biology (Clifton, N.J.)*  
Nauta, A. C., Gurtner, G. C., Longaker, M. T.  
2013; 1037: 81-98
  - **Murine models of human wound healing.** *Methods in molecular biology (Clifton, N.J.)*  
Chen, J. S., Longaker, M. T., Gurtner, G. C.  
2013; 1037: 265-274
  - **Evidence that mast cells are not required for healing of splinted cutaneous excisional wounds in mice.** *PloS one*  
Nauta, A. C., Grova, M., Montoro, D. T., Zimmermann, A., Tsai, M., Gurtner, G. C., Galli, S. J., Longaker, M. T.  
2013; 8 (3)
  - **In vivo directed differentiation of pluripotent stem cells for skeletal regeneration** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Levi, B., Hyun, J. S., Montoro, D. T., Lo, D. D., Chan, C. K., Hu, S., Sun, N., Lee, M., Grova, M., Connolly, A. J., Wu, J. C., Gurtner, G. C., Weissman, et al  
2012; 109 (50): 20379-20384
  - **Soft tissue mechanotransduction in wound healing and fibrosis** *SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY*  
Wong, V. W., Longaker, M. T., Gurtner, G. C.  
2012; 23 (9): 981-986
  - **Introduction: Wound repair** *SEMINARS IN CELL & DEVELOPMENTAL BIOLOGY*  
Longaker, M. T.  
2012; 23 (9): 945-945
  - **Stem cell recruitment after injury: lessons for regenerative medicine** *REGENERATIVE MEDICINE*  
Rennert, R. C., Sorkin, M., Garg, R. K., Gurtner, G. C.  
2012; 7 (6): 833-850
  - **Regenerative Surgery: Tissue Engineering in General Surgical Practice** *WORLD JOURNAL OF SURGERY*  
Wong, V. W., Wan, D. C., Gurtner, G. C., Longaker, M. T.  
2012; 36 (10): 2288-2299

- **Tissue engineering for the management of chronic wounds: current concepts and future perspectives** *EXPERIMENTAL DERMATOLOGY*  
Wong, V. W., Gurtner, G. C.  
2012; 21 (10): 729-734
- **Mesenchymal Stem Cells Home to Sites of Injury and Inflammation.** *Advances in wound care*  
Rustad, K. C., Gurtner, G. C.  
2012; 1 (4): 147-152
- **Microsurgery Education in Residency Training Validating an Online Curriculum** *Annual Conference of the California-Society-of-Plastic-Surgeons*  
Satterwhite, T., Son, J., Carey, J., Zeidler, K., Bari, S., Gurtner, G., Chang, J., Lee, G. K.  
LIPPINCOTT WILLIAMS & WILKINS.2012: 410-14
- **Delivery Strategies for Stem Cell-Based Therapy** *JOURNAL OF HEALTHCARE ENGINEERING*  
Glotzbach, J. P., Wong, V. W., Levi, B., Longaker, M. T., Gurtner, G. C.  
2012; 3 (1): 1-20
- **Enhancement of Human Adipose-Derived Stromal Cell Angiogenesis through Knockdown of a BMP-2 Inhibitor** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Levi, B., Nelson, E. R., Hyun, J. S., Glotzbach, J. P., Li, S., Nauta, A., Montoro, D. T., Lee, M., Commons, G. C., Hu, S., Wu, J. C., Gurtner, G. C., Longaker, et al  
2012; 129 (1): 53-66
- **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
- **Therapeutic potential of bone marrow-derived mesenchymal stem cells for cutaneous wound healing** *FRONTIERS IN IMMUNOLOGY*  
Chen, J. S., Wong, V. W., Gurtner, G. C.  
2012; 3
- **Stem cell niches for skin regeneration.** *International journal of biomaterials*  
Wong, V. W., Levi, B., Rajadas, J., Longaker, M. T., Gurtner, G. C.  
2012; 2012: 926059-?
- **Stem Cells: Update and Impact on Craniofacial Surgery** *JOURNAL OF CRANIOFACIAL SURGERY*  
Levi, B., Glotzbach, J. P., Wong, V. W., Nelson, E. R., Hyun, J., Wan, D. C., Gurtner, G. C., Longaker, M. T.  
2012; 23 (1): 319-322
- **Therapeutic potential of bone marrow-derived mesenchymal stem cells for cutaneous wound healing.** *Frontiers in immunology*  
Chen, J. S., Wong, V. W., Gurtner, G. C.  
2012; 3: 192-?
- **Nonintegrating Knockdown and Customized Scaffold Design Enhances Human Adipose-Derived Stem Cells in Skeletal Repair** *STEM CELLS*  
Levi, B., Hyun, J. S., Nelson, E. R., Li, S., Montoro, D. T., Wan, D. C., Jia, F. J., Glotzbach, J. C., James, A. W., Lee, M., Huang, M., Quarto, N., Gurtner, et al  
2011; 29 (12): 2018-2029
- **Mechanical force prolongs acute inflammation via T-cell-dependent pathways during scar formation** *FASEB JOURNAL*  
Wong, V. W., Paterno, J., Sorkin, M., Glotzbach, J. P., Levi, K., Januszyk, M., Rustad, K. C., Longaker, M. T., Gurtner, G. C.  
2011; 25 (12): 4498-4510
- **Antimycotic Ciclopirox Olamine in the Diabetic Environment Promotes Angiogenesis and Enhances Wound Healing** *PLOS ONE*  
Ko, S. H., Nauta, A., Morrison, S. D., Zhou, H., Zimmermann, A., Gurtner, G. C., Ding, S., Longaker, M. T.  
2011; 6 (11)
- **CD105 Protein Depletion Enhances Human Adipose-derived Stromal Cell Osteogenesis through Reduction of Transforming Growth Factor beta 1 (TGF-beta 1) Signaling** *JOURNAL OF BIOLOGICAL CHEMISTRY*

- Levi, B., Wan, D. C., Glotzbach, J. P., Hyun, J., Januszyk, M., Montoro, D., Sorkin, M., James, A. W., Nelson, E. R., Li, S., Quarto, N., Lee, M., Gurtner, et al  
2011; 286 (45): 39497-39509
- **Pullulan Hydrogels Improve Mesenchymal Stem Cell Delivery into High-Oxidative-Stress Wounds** *MACROMOLECULAR BIOSCIENCE*  
Wong, V. W., Rustad, K. C., Glotzbach, J. P., Sorkin, M., Inayathullah, M., Major, M. R., Longaker, M. T., Rajadas, J., Gurtner, G. C.  
2011; 11 (11): 1458-1466
  - **Pushing Back: Wound Mechanotransduction in Repair and Regeneration** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Wong, V. W., Akaishi, S., Longaker, M. T., Gurtner, G. C.  
2011; 131 (11): 2186-2196
  - **Wound healing and regenerative strategies** *ORAL DISEASES*  
Nauta, A., Gurtner, G. C., Longaker, M. T.  
2011; 17 (6): 541-549
  - **Comparative Healing of Human Cutaneous Surgical Incisions Created by the PEAK PlasmaBlade, Conventional Electrosurgery, and a Standard Scalpel** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Ruidiaz, M. E., Messmer, D., Atmodjo, D. Y., Vose, J. G., Huang, E. J., Kummel, A. C., Rosenberg, H. L., Gurtner, G. C.  
2011; 128 (1): 104-111
  - **Regenerative Medicine** *CURRENT PROBLEMS IN SURGERY*  
Glotzbach, J. P., Wong, V. W., Gurtner, G. C., Longaker, M. T.  
2011; 48 (3): 148-212
  - **In brief: Regenerative medicine. Current problems in surgery**  
Glotzbach, J. P., Wong, V. W., Gurtner, G. C., Longaker, M. T.  
2011; 48 (3): 142-146
  - **Engineered Pullulan-Collagen Composite Dermal Hydrogels Improve Early Cutaneous Wound Healing** *TISSUE ENGINEERING PART A*  
Wong, V. W., Rustad, K. C., Galvez, M. G., Neofytou, E., Glotzbach, J. P., Januszyk, M., Major, M. R., Sorkin, M., Longaker, M. T., Rajadas, J., Gurtner, G. C.  
2011; 17 (5-6): 631-644
  - **Surgical Approaches to Create Murine Models of Human Wound Healing** *JOURNAL OF BIOMEDICINE AND BIOTECHNOLOGY*  
Wong, V., Sorkin, M., Glotzbach, J. P., Longaker, M. T., Gurtner, G. C.  
2011
  - **Oncologic Breast Reconstruction: Principles and Practice** *BREAST SURGICAL TECHNIQUES AND INTERDISCIPLINARY MANAGEMENT*  
Lee, G. K., Davis, D. J., Salim, A., Gurtner, G. C.  
edited by Dirbas, F. M., ScottConner, C. E.  
2011: 443-68
  - **The Role of Stem Cells in Cutaneous Wound Healing: What Do We Really Know?** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Ko, S. H., Nauta, A., Wong, V., Glotzbach, J., Gurtner, G. C., Longaker, M. T.  
2011; 127 (1): 10S-20S
  - **Akt-mediated mechanotransduction in murine fibroblasts during hypertrophic scar formation** *WOUND REPAIR AND REGENERATION*  
Paterno, J., Vial, I. N., Wong, V. W., Rustad, K. C., Sorkin, M., Shi, Y., Bhatt, K. A., Thangarajah, H., Glotzbach, J. P., Gurtner, G. C.  
2011; 19 (1): 49-58
  - **Statistics in Medicine** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Januszyk, M., Gurtner, G. C.  
2011; 127 (1): 437-444
  - **Diathermy or Surgical Scalpel for Abdominal Skin Incisions What Is the Impact On Clinical Practice?** *ANNALS OF SURGERY*  
Longaker, M. T., Gurtner, G. C.  
2011; 253 (1): 14-15
  - **Meta Analysis of the Effectiveness of Surgical Scalpel or Diathermy in Making Abdominal Skin Incisions.** *Annals of surgery*  
Longaker, M. T., Gurtner, G. C.

2010

- **Quantifying migration and polarization of murine mesenchymal stem cells on different bone substitutes by confocal laser scanning microscopy** *JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY*  
Roldan, J. C., Chang, E., Kelantan, M., Jazayeri, L., Deisinger, U., Detsch, R., Reichert, T. E., Gurtner, G. C.  
2010; 38 (8): 580-588
- **The Basic Science of Vascular Biology: Implications for the Practicing Surgeon** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Glotzbach, J. P., Levi, B., Wong, V. W., Longaker, M. T., Gurtner, G. C.  
2010; 126 (5): 1527-1537
- **The basic science of vascular biology: implications for the practicing surgeon.** *Plastic and reconstructive surgery*  
Glotzbach, J. P., Levi, B., Wong, V. W., Longaker, M. T., Gurtner, G. C.  
2010; 126 (5): 1528-1538
- **Effectiveness of the Asteame Nipple Guard (TM) in maintaining projection following nipple reconstruction: A prospective randomised controlled trial** *42nd Congress of the European-Society-for-Surgical-Research*  
Rosing, J. H., Momeni, A., Kamperman, K., Kahn, D., Gurtner, G., Lee, G. K.  
ELSEVIER SCI LTD.2010: 1592-96
- **Stem Cells** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Behr, B., Ko, S. H., Wong, V. W., Gurtner, G. C., Longaker, M. T.  
2010; 126 (4): 1163-1171
- **Tissue Engineering in Plastic Surgery: A Review** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Wong, V. W., Rustad, K. C., Longaker, M. T., Gurtner, G. C.  
2010; 126 (3): 858-868
- **Mechanical modulation of inflammation and skin fibrosis through CD4+T cell signaling**  
Wong, V. W., Glotzbach, J. P., Paterno, J., Rustad, K. C., Sorkin, M., Major, M. R., Vial, I. N., Longaker, M. T., Gurtner, G. C.  
ELSEVIER SCIENCE INC.2010: S77
- **Bone formation and degradation of a highly porous biphasic calcium phosphate ceramic in presence of BMP-7, VEGF and mesenchymal stem cells in an ectopic mouse model** *JOURNAL OF CRANIO-MAXILLOFACIAL SURGERY*  
Roldan, J. C., Detsch, R., Schaefer, S., Chang, E., Kelantan, M., Waiss, W., Reichert, T. E., Gurtner, G. C., Deisinger, U.  
2010; 38 (6): 423-430
- **Strategies for organ level tissue engineering** *ORGANOGENESIS*  
Rustad, K. C., Sorkin, M., Levi, B., Longaker, M. T., Gurtner, G. C.  
2010; 6 (3): 151-157
- **The Plastic Surgery Research Council - Welcome from the Chairman** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Gurtner, G. C.  
2010; 125: 4-4
- **The SNaP System: Biomechanical and Animal Model Testing of a Novel Ultraportable Negative-Pressure Wound Therapy System** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Fong, K. D., Hu, D., Eichstadt, S., Gupta, D. M., Pinto, M., Gurtner, G. C., Longaker, M. T., Lorenz, H. P.  
2010; 125 (5): 1362-1371
- **Intraoperative Perfusion Mapping with Laser-Assisted Indocyanine Green Imaging Can Predict and Prevent Complications in Immediate Breast Reconstruction** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Komorowska-Timek, E., Gurtner, G. C.  
2010; 125 (4): 1065-1073
- **Discussion: Construction and Clinical Application of a Human Tissue-Engineered Epidermal Membrane** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Wong, V. W., Gurtner, G. C.  
2010; 125 (3): 910-912
- **HIF-1 alpha dysfunction in diabetes** *CELL CYCLE*

- Thangarajah, H., Vial, I. N., Grogan, R. H., Yao, D., Shi, Y., Januszyk, M., Galiano, R. D., Chang, E. I., Galvez, M. G., Glotzbach, J. P., Wong, V. W., Brownlee, M., Gurtner, et al  
2010; 9 (1): 75-79
- **Neovascularization in diabetes.** *Expert review of endocrinology & metabolism*  
Glotzbach, J. P., Wong, V. W., Gurtner, G. C.  
2010; 5 (1): 99-111
  - **From Idea to Bedside: The Process of Surgical Invention and Innovation** *KEY TOPICS IN SURGICAL RESEARCH AND METHODOLOGY*  
Wall, J., Gurtner, G. C., Longaker, M. T.  
edited by Athanasiou, T., Debas, H., Darzi, A.  
2010: 647-56
  - **Endothelial Progenitor Cell's Contribution to Wound Healing and Skin Graft Neovascularization** *ADVANCES IN WOUND CARE, VOL 1*  
Galvez, M. G., Chang, E. I., Gurtner, G. C.  
edited by Sen, C. K.  
2010; 1: 502-7
  - **SUPERCHARGED REVERSE PEDICLE ANTEROLATERAL THIGH FLAP IN RECONSTRUCTION OF A MASSIVE DEFECT: A CASE REPORT** *MICROSURGERY*  
Komorowska-Timek, E., Gurtner, G., Lee, G. K.  
2010; 30 (5): 397-400
  - **Imaging the Unfolded Protein Response in Primary Tumors Reveals Microenvironments with Metabolic Variations that Predict Tumor Growth** *CANCER RESEARCH*  
Spiotto, M. T., Banh, A., Papandreou, I., Cao, H., Galvez, M. G., Gurtner, G. C., Denko, N. C., Le, Q. T., Koong, A. C.  
2010; 70 (1): 78-88
  - **Comparative Healing of Surgical Incisions Created by the PEAK PlasmaBlade, Conventional Electrosurgery, and a Scalpel** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Loh, S. A., Carlson, G. A., Chang, E. I., Huang, E., Palanker, D., Gurtner, G. C.  
2009; 124 (6): 1849-1859
  - **Human skin wounds: A major and snowballing threat to public health and the economy** *WOUND REPAIR AND REGENERATION*  
Sen, C. K., Gordillo, G. M., Roy, S., Kirsner, R., Lambert, L., Hunt, T. K., Gottrup, F., Gurtner, G. C., Longaker, M. T.  
2009; 17 (6): 763-771
  - **From Bedside to Bench and Back Again: Technology Innovation in Plastic Surgery** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Gurtner, G. C., Rohrich, R. J., Longaker, M. T.  
2009; 124 (4): 1355-1356
  - **The mechanisms of action of vacuum assisted closure: More to learn** *SURGERY*  
Orgill, D. P., Manders, E. K., Sumpio, B. E., Lee, R. C., Attinger, C. E., Gurtner, G. C., Ehrlich, H. P.  
2009; 146 (1): 40-51
  - **Treating Chronic Wound Infections with Genetically Modified Free Flaps** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Ghali, S., Bhatt, K. A., Dempsey, M. P., Jones, D. M., Singh, S., Arabi, S., Butler, P. E., Gallo, R. L., Gurtner, G. C.  
2009; 123 (4): 1157-1168
  - **Osteoblasts Stimulated With Pulsed Electromagnetic Fields Increase HUVEC Proliferation Via a VEGF-A Independent Mechanism** *BIOELECTROMAGNETICS*  
Hopper, R. A., VerHalen, J. P., Tepper, O., Mehrara, B. J., Detch, R., Chang, E. I., Baharestani, S., Simon, B. J., Gurtner, G. C.  
2009; 30 (3): 189-197
  - **Tissue engineering using autologous microcirculatory beds as vascularized bioscaffolds** *FASEB JOURNAL*  
Chang, E. I., Bonillas, R. G., El-Ftesi, S., Chang, E. I., Ceradini, D. J., Vial, I. N., Chan, D. A., Michaels, J., Gurtner, G. C.  
2009; 23 (3): 906-915
  - **SDF-1 alpha Expression during Wound Healing in the Aged Is HIF Dependent** *52nd Annual Meeting of the Plastic-Surgery-Research-Council*  
Loh, S. A., Chang, E. I., Galvez, M. G., Thangarajah, H., El-Ftesi, S., Vial, I. N., Lin, D. A., Gurtner, G. C.

LIPPINCOTT WILLIAMS & WILKINS.2009: 65S–75S

- **Aging and Diabetes Impair the Neovascular Potential of Adipose-Derived Stromal Cells** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
El-Ftesi, S., Chang, E. I., Longaker, M. T., Gurtner, G. C.  
2009; 123 (2): 475-485
- **Intracranial Microvascular Free Flaps** *JOURNAL OF RECONSTRUCTIVE MICROSURGERY*  
Levine, S., Garfein, E. S., Weiner, H., Yaremchuk, M. J., Saadeh, P. B., Gurtner, G., Levine, J. P., Warren, S. M.  
2009; 25 (2): 89-95
- **Mesenchymal Stem Cells Can Participate in Ischemic Neovascularization** *52nd Annual Meeting of the Plastic-Surgery-Research-Council*  
Hamou, C., Callaghan, M. J., Thangarajah, H., Chang, E., Chang, E. I., Grogan, R. H., Paterno, J., Vial, I. N., Jazayeri, L., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2009: 45S–55S
- **Topical Lineage-Negative Progenitor-Cell Therapy for Diabetic Wounds (Invited Discussion)** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Gurtner, G. C., Longaker, M. T.  
2009; 123 (1): 421-423
- **Taz is a transcriptional modulator of human adipose-derived stromal cell differentiation towards the osteogenic lineage** *13th International Congress of the International-Society-of-Craniofacial-Surgery / Paris Distraction Symposium*  
Gupta, D. M., Panetta, N. J., Vial, I. N., Lee, J. K., Wan, D. C., Gurtner, G. C., Longaker, M. T.  
MEDIMOND S R L.2009: 87–89
- **A Recommended Protocol for the Immediate Postoperative Care of Lower Extremity Free-Flap Reconstructions** *JOURNAL OF RECONSTRUCTIVE MICROSURGERY*  
Rohde, C., Howell, B. W., Buncke, G. M., Gurtner, G. C., Levin, L. S., Pu, L. L., Levine, J. P.  
2009; 25 (1): 15-19
- **IFATS Collection: Adipose Stromal Cells Adopt a Proangiogenic Phenotype Under the Influence of Hypoxia** *STEM CELLS*  
Thangarajah, H., Vial, I. N., Chang, E., El-Ftesi, S., Januszyk, M., Chang, E. I., Paterno, J., Neofytou, E., Longaker, M. T., Gurtner, G. C.  
2009; 27 (1): 266-274
- **Hedgehog signaling is essential for normal wound healing** *WOUND REPAIR AND REGENERATION*  
Le, H., Kleinerman, R., Lerman, O. Z., Brown, D., Galiano, R., Gurtner, G. C., Warren, S. M., Levine, J. P., Saadeh, P. B.  
2008; 16 (6): 768-773
- **Bisphosphonate-associated osteonecrosis of the jaw: Successful treatment at 2-year follow-up** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Aarabi, S., Draper, L., Grayson, B., Gurtner, G. C.  
2008; 122 (2): 57E-59E
- **"Priming" endothelial progenitor cells a new strategy to improve cell based therapeutics** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Gurtner, G. C., Chang, E.  
2008; 28 (6): 1034-1035
- **Using genetically modified microvascular free flaps to deliver local cancer immunotherapy with minimal systemic toxicity** *51st Annual Meeting of the Research-Council-of-Plastic-Surgery*  
Dempsey, M. P., Hamou, C., Michaels, J., Ghali, S., Jazayeri, L., Grogan, R. H., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2008: 1541–53
- **Diabetes increases p53-mediated apoptosis following ischemia** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Jazayeri, L., Callaghan, M. J., Grogan, R. H., Hamou, C. D., Thanik, V., Ingraham, C. R., Capell, B. C., Pelo, C. R., Gurtner, G. C.  
2008; 121 (4): 1135-1143
- **Plastic surgical delivery systems for targeted gene therapy** *ANNALS OF PLASTIC SURGERY*  
Ghali, S., Dempsey, M. P., Jones, D. M., Grogan, R. H., Butler, P. E., Gurtner, G. C.  
2008; 60 (3): 323-332
- **Pulsed electromagnetic fields accelerate normal and diabetic wound healing by increasing endogenous FGF-2 release** *PLASTIC AND RECONSTRUCTIVE SURGERY*

- Callaghan, M. J., Chang, E. I., Seiser, N., Aarabi, S., Ghali, S., Kinnucan, E. R., Simon, B. J., Gurtner, G. C.  
2008; 121 (1): 130-141
- **Age decreases endothelial progenitor cell recruitment through decreases in hypoxia-inducible factor 1 alpha stabilization during ischemia** *CIRCULATION*  
Chang, E. I., Loh, S. A., Ceradini, D. J., Chang, E. I., Lin, S., Bastidas, N., Aarabi, S., Chan, D. A., Freedman, M. L., Giaccia, A. J., Gurtner, G. C.  
2007; 116 (24): 2818-2829
  - **Hypoxia-induced mediators of stem/progenitor cell trafficking are increased in children with hemangioma** *ARTERIOSCLEROSIS THROMBOSIS AND VASCULAR BIOLOGY*  
Kleinman, M. E., Greives, M. R., Churgin, S. S., Blechman, K. M., Chang, E. I., Ceradini, D. J., Tepper, O. M., Gurtner, G. C.  
2007; 27 (12): 2664-2670
  - **Uniaxial mechanical strain: An in vitro correlate to distraction osteogenesis** *JOURNAL OF SURGICAL RESEARCH*  
Bhatt, K. A., Chang, E. I., Warren, S. M., Lin, S., Bastidas, N., Ghali, S., Thibboneir, A., Capla, J. M., McCarthy, J. G., Gurtner, G. C.  
2007; 143 (2): 329-336
  - **Mechanical load initiates hypertrophic scar formation through decreased cellular apoptosis** *FASEB JOURNAL*  
Aarabi, S., Bhatt, K. A., Shi, Y., Paterno, J., Chang, E. I., Loh, S. A., Holmes, J. W., Longaker, M. T., Yee, H., Gurtner, G. C.  
2007; 21 (12): 3250-3261
  - **Hypertrophic scar formation following burns and trauma: New approaches to treatment** *PLOS MEDICINE*  
Aarabi, S., Longaker, M. T., Gurtner, G. C.  
2007; 4 (9): 1464-1470
  - **Hypoxia up-regulates the angiogenic cytokine secretoneurin via an HIF-1 alpha- and basic FGF-dependent pathway in muscle cells** *FASEB JOURNAL*  
Egger, M., Schgoer, W., Beer, A. G., Jeschke, J., Leierer, J., Theurl, M., Frauscher, S., Tepper, O. M., Niederwanger, A., Ritsch, A., Kearney, M., Wanschitz, J., Gurtner, et al  
2007; 21 (11): 2906-2917
  - **db/db mice exhibit severe wound-healing impairments compared with other murine diabetic strains in a silicone-splinted excisional wound model** *WOUND REPAIR AND REGENERATION*  
Michaels, J., Churgin, S. S., Blechman, K. M., Greives, M. R., Aarabi, S., Galiano, R. D., Gurtner, G. C.  
2007; 15 (5): 665-670
  - **Vascular delay revisited** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Ghali, S., Butler, P. E., Tepper, O. M., Gurtner, G. C.  
2007; 119 (6): 1735-1744
  - **Cyclic mechanical strain increases production of regulators of bone healing in cultured murine osteoblasts** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*  
Singh, S. P., Chang, E. I., Gossain, A. K., Mehara, B. J., Galiano, R. D., Jensen, J., Longaker, M. T., Gurtner, G. C., Saadeh, P. B.  
2007; 204 (3): 426-434
  - **Progress and potential for regenerative medicine** *ANNUAL REVIEW OF MEDICINE*  
Gurtner, G. C., Callaghan, M. J., Longaker, M. T.  
2007; 58: 299-312
  - **Diabetes impairs endothelial progenitor cell-mediated blood vessel formation in response to hypoxia** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Capla, J. M., Grogan, R. H., Callaghan, M. J., Galiano, R. D., Tepper, O. M., Ceradini, D. J., Gurtner, G. C.  
2007; 119 (1): 59-70
  - **Hypoxia, hormones, and endothelial progenitor cells in hemangioma.** *Lymphatic research and biology*  
Chang, E. I., Chang, E. I., Thangarajah, H., Hamou, C., Gurtner, G. C.  
2007; 5 (4): 237-243
  - **No evidence for maternal-fetal microchimerism in infantile hemangioma: A molecular genetic investigation** *JOURNAL OF INVESTIGATIVE DERMATOLOGY*  
Pittman, K. M., Losken, H. W., Kleinman, M. E., Marcus, J. R., Blei, F., Gurtner, G. C., Marchuk, D. A.

2006; 126 (11): 2533-2538

- **Inventing our future: training the next generation of surgeon innovators.** *Seminars in pediatric surgery*  
Krummel, T. M., Gertner, M., Makower, J., Milroy, C., Gurtner, G., Woo, R., Riskin, D. J., Binyamin, G., Connor, J. A., Mery, C. M., Shafi, B. M., Yock, P. G.  
2006; 15 (4): 309-318
- **Early-gestation fetal scarless wounds have less lysyl oxidase expression - Discussion** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Aarabi, S., Gurtner, G. C.  
2006; 118 (5): 1130-1131
- **Overview of the role for calreticulin in the enhancement of wound healing through multiple biological effects** *54th Annual Montagna Symposium on Biology of Skin*  
Gold, L. I., Rahman, M., Blechman, K. M., Greives, M. R., Churgin, S., Michaels, J., Callaghan, M. J., Cardwell, N. L., Pollins, A. C., Michalak, M., Siebert, J. W., Levine, J. P., Gurtner, et al  
NATURE PUBLISHING GROUP.2006: 57-65
- **Biologic brachytherapy: Ex vivo transduction of microvascular beds for efficient, targeted gene therapy** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Michaels, J., Levine, J. P., Hazen, A., Ceradini, D. J., Galiano, R. D., Soltanian, H., Gurtner, G. C.  
2006; 118 (1): 54-65
- **Skin graft vascularization involves precisely regulated regression and replacement of endothelial cells through both angiogenesis and vasculogenesis** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Capla, J. M., Ceradini, D., Tepper, O. M., Callaghan, M. J., Bhatt, K. A., Galiano, R. D., Levine, J. P., Gurtner, G. C.  
2006; 117 (3): 836-844
- **Hyperglycemia-induced reactive oxygen species and impaired endothelial progenitor cell function** *ANTIOXIDANTS & REDOX SIGNALING*  
Callaghan, M. J., Ceradini, D. J., Gurtner, G. C.  
2005; 7 (11-12): 1476-1482
- **Stem cells and distraction osteogenesis: Endothelial progenitor cells home to the ischemic generate in activation and consolidation** *48th Annual Meeting of the Plastic-Surgery-Research-Council*  
Cetrulo, C. L., Knox, K. R., Brown, D. J., Ashinoff, R. L., Dobryansky, M., Ceradini, D. J., Capla, J. A., Chang, E. I., Bhatt, K. A., McCarthy, J. G., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2005: 1053-64
- **Topical vascular endothelial growth factor reverses delayed wound healing secondary to angiogenesis inhibitor administration** *WOUND REPAIR AND REGENERATION*  
Michaels, J., Dobryansky, M., Galiano, R. D., Bhatt, K. A., Ashinoff, R., Ceradini, D. J., Gurtner, G. C.  
2005; 13 (5): 506-512
- **Mechanical strain alters gene expression in an in vitro model of hypertrophic scarring** *21st Annual Meeting of the Northeastern-Society-of-Plastic-Surgeons*  
Derderian, C. A., Bastidas, N., Lerman, O. Z., Bhatt, K. A., Lin, S. E., Voss, J., Holmes, J. W., Levine, J. P., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2005: 69-75
- **Sonographically guided percutaneous carpal tunnel release - An anatomic and cadaveric study** *21st Annual Meeting of the Northeastern-Society-of-Plastic-Surgeons*  
Rowe, N. M., Michaels, J., Soltanian, H., Dobryansky, M., Peimer, C. A., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2005: 52-56
- **Adult vasculogenesis occurs through in situ recruitment, proliferation, and tubulization of circulating bone marrow-derived cells** *BLOOD*  
Tepper, O. M., Capla, J. M., Galiano, R. D., Ceradini, D. J., Callaghan, M. J., Kleinman, M. E., Gurtner, G. C.  
2005; 105 (3): 1068-1077
- **Homing to hypoxia: HIF-1 as a mediator of progenitor cell recruitment to injured tissue** *TRENDS IN CARDIOVASCULAR MEDICINE*  
Ceradini, D. J., Gurtner, G. C.  
2005; 15 (2): 57-63
- **Circulating endothelial progenitor cells and vascular anomalies.** *Lymphatic research and biology*  
Kleinman, M. E., Blei, F., Gurtner, G. C.

2005; 3 (4): 234-239

- **Progenitor cell trafficking is regulated by hypoxic gradients through HIF-1 induction of SDF-1** *NATURE MEDICINE*  
Ceradini, D. J., Kulkarni, A. R., Callaghan, M. J., Tepper, O. M., Bastidas, N., Kleinman, M. E., Capla, J. M., Galiano, R. D., Levine, J. P., Gurtner, G. C.  
2004; 10 (8): 858-864
- **Electromagnetic fields increase in vitro and in vivo angiogenesis through endothelial release of FGF-2.** *FASEB journal*  
Tepper, O. M., Callaghan, M. J., Chang, E. I., Galiano, R. D., Bhatt, K. A., Baharestani, S., Gan, J., Simon, B., Hopper, R. A., Levine, J. P., Gurtner, G. C.  
2004; 18 (11): 1231-1233
- **Quantitative and reproducible murine model of excisional wound healing** *WOUND REPAIR AND REGENERATION*  
Galiano, R. D., Michaels, J., Dobryansky, M., Levine, J. P., Gurtner, G. C.  
2004; 12 (4): 485-492
- **Ex vivo transduction of microvascular free flaps for localized peptide delivery** *20th Annual Meeting of the Northeastern-Society-of-Plastic-Surgeons*  
Michaels, J., Dobryansky, M., Galiano, R. D., Ceradini, D. J., Bonillas, R., Jones, D., Seiser, N., Levine, J. P., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2004: 581-84
- **Electromagnetic fields increase in vitro and in vivo angiogenesis through endothelial release of FGF-2** *FASEB JOURNAL*  
Tepper, O. M., Callaghan, M. J., Chang, E. I., Galiano, R. D., Bhatt, K. A., Baharestani, S., Gan, J., Simon, B., Hopper, R. A., Levine, J. P., Gurtner, G. C.  
2004; 18 (9): 1231-?
- **Bone morphogenic protein-2 gene therapy for mandibular distraction osteogenesis** *20th Annual Meeting of the Northeastern-Society-of-Plastic-Surgeons*  
Ashinoff, R. L., Cetrulo, C. L., Galiano, R. D., Dobryansky, M., Bhatt, K. A., Ceradini, D. J., Michaels, J., McCarthy, J. G., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2004: 585-91
- **Topical vascular endothelial growth factor accelerates diabetic wound healing through increased angiogenesis and by mobilizing and recruiting bone marrow-derived cells** *AMERICAN JOURNAL OF PATHOLOGY*  
Galiano, R. D., Tepper, O. M., Pelo, C. R., Bhatt, K. A., Callaghan, M., Bastidas, N., Bunting, S., Steinmetz, H. G., Gurtner, G. C.  
2004; 164 (6): 1935-1947
- **Endostatin inhibits ischemia-induced neovascularization and increases ischemic tissue loss** *20th Annual Meeting of the Northeastern-Society-of-Plastic-Surgeons*  
Dobryansky, M., Galiano, R. D., Cetrulo, C. L., Bhatt, K. A., Michaels, J., Ashinoff, R., Levine, J. P., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2004: 512-18
- **Reconstruction of a large mandibular defect utilizing temporary zygomatic-ramal fixation and bilateral Risdon incisions** *JOURNAL OF CRANIOFACIAL SURGERY*  
Derderian, C. A., Gurtner, G. C., McCarthy, J. G.  
2004; 15 (1): 16-19
- **Selective recruitment of endothelial progenitor cells to ischemic tissues with increased neovascularization** *47th Annual Meeting of the Plastic-Surgery-Research-Council*  
Park, S., Tepper, O. M., Galiano, R. D., Capla, J. M., Baharestani, S., Kleinman, M. E., Pelo, C. R., Levine, J. P., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2004: 284-93
- **Microvascular free-tissue transfer for traumatic defects of the upper extremity: A 25-year experience** *80th Annual Meeting of the American-Association-of-Plastic-Surgeons*  
Derderian, C. A., Olivier, W. A., Baux, G., Levine, J., Gurtner, G. C.  
THIEME MEDICAL PUBL INC.2003: 455-61
- **Reliable assessment of skin flap viability using orthogonal polarization imaging** *87th Annual Clinical Congress of the American-College-of-Surgeons*  
Olivier, W. M., Hazen, A., Levine, J. P., Soltanian, H., Chung, S., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2003: 547-55

- **Endothelial progenitor cells: The promise of vascular stem cells for plastic surgery** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Tepper, O. M., Galiano, R. D., Kalka, C., Gurtner, G. C.  
2003; 111 (2): 846-854
- **Vascularized acellular dermal matrix island flaps for the repair of abdominal muscle defects** *46th Annual Meeting of Plastic-Surgery-Research-Council*  
Chung, S., Hazen, A., Levine, J. P., Baux, G., Olivier, W. A., Yee, H. T., Margiotta, M. S., Karp, N. S., Gurtner, G. C.  
LIPPINCOTT WILLIAMS & WILKINS.2003: 225-32
- **Endothelial progenitor cell trafficking in distraction osteogenesis in the activation and consolidation phases** *10th International Congress of the International-Society-of-Craniofacial-Surgery*  
Cetrulo, C. L., Ashinoff, R. L., Ceradini, D. J., Dobryanski, M., Capla, J. M., Bhatt, K. A., Galiano, R. D., Jensen, J. N., Levine, J. P., Gurtner, G. C., McCarthy, J. G.  
MEDIMOND PUBLISHING CO.2003: 113-113
- **Mesenchymal stem cell homing in distraction osteogenesis: Promise for ex vivo expansion therapy and gene-delivery vehicles** *10th International Congress of the International-Society-of-Craniofacial-Surgery*  
Cetrulo, C. L., Ceradini, D. J., Ashinoff, R. L., Dobryanski, M., Bhatt, K. A., Michaels, V. J., Jensen, J. N., Galiano, R. D., Levine, J. P., Gurtner, G. C., McCarthy, J. G.  
MEDIMOND PUBLISHING CO.2003: 385-385
- **Increased circulating AC133+ CD34+ endothelial progenitor cells in children with hemangioma.** *Lymphatic research and biology*  
Kleinman, M. E., Tepper, O. M., Capla, J. M., Bhatt, K. A., Ceradini, D. J., Galiano, R. D., Blei, F., Levine, J. P., Gurtner, G. C.  
2003; 1 (4): 301-307
- **Cellular dysfunction in the diabetic fibroblast - Impairment in migration, vascular endothelial growth factor production, and response to hypoxia** *AMERICAN JOURNAL OF PATHOLOGY*  
Lerman, O. Z., Galiano, R. D., Armour, M., Levine, J. P., Gurtner, G. C.  
2003; 162 (1): 303-312
- **Gene therapy with bone morphogenic protein-2 in mandibular distraction osteogenesis** *10th International Congress of the International-Society-of-Craniofacial-Surgery*  
Ashinoff, R. L., Galiano, R. D., Cetrulo, C. L., Dobryansky, M., Bhatt, K. A., Michaels, J., Ceradini, D., Levine, J. P., Gurtner, G. C., McCarthy, J. G.  
MEDIMOND PUBLISHING CO.2003: 115-115
- **Human endothelial progenitor cells from type II diabetics exhibit impaired proliferation, adhesion, and incorporation into vascular structures.** *Circulation*  
Tepper, O. M., Galiano, R. D., Capla, J. M., Kalka, C., Gagne, P. J., Jacobowitz, G. R., Levine, J. P., Gurtner, G. C.  
2002; 106 (22): 2781-2786
- **Human endothelial progenitor exhibit impaired proliferation, cells from type II diabetics adhesion, and incorporation into vascular structures** *CIRCULATION*  
Tepper, O. M., Galiano, R. D., Capla, J. M., Kalka, C., Gagne, P. J., Jacobowitz, G. R., Levine, J. P., Gurtner, G. C.  
2002; 106 (22): 2781-2786
- **Muristerone A-induced nerve growth factor release from genetically engineered human dermal fibroblasts for peripheral nerve tissue engineering** *TISSUE ENGINEERING*  
Patrick, C. W., Zheng, B., Wu, X. M., Gurtner, G., Barlow, M., Koutz, C., Chang, D., Schmidt, M., Evans, G. R.  
2001; 7 (3): 303-311
- **Reduction mammoplasty improves breast conservation therapy in patients with macromastia** *AMERICAN JOURNAL OF SURGERY*  
Newman, L. A., Kuerer, H. M., McNeese, M. D., Hunt, K. K., Gurtner, G. C., Vlastos, G. S., Robb, G., Singletary, S. E.  
2001; 181 (3): 215-220
- **Advances in head and neck reconstruction** *PLASTIC AND RECONSTRUCTIVE SURGERY*  
Gurtner, G. C., Evans, G. R.  
2000; 106 (3): 672-682
- **Immunotargeting of liposomes to activated vascular endothelial cells: A strategy for site-selective delivery in the cardiovascular system** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Spragg, D. D., Alford, D. R., Greferath, R., Larsen, C. E., Lee, K. D., Gurtner, G. C., Cybulsky, M. I., Tosi, P. F., Nicolau, C., Gimbrone, M. A.

1997; 94 (16): 8795-8800

● **EFFECT OF CARBON-DIOXIDE PNEUMOPERITONEUM ON BACTEREMIA AND ENDOTOXEMIA IN AN ANIMAL-MODEL OF PERITONITIS** *BRITISH JOURNAL OF SURGERY*

Gurtner, G. C., Robertson, C. S., Chung, S. C., Ling, T. K., Ip, S. M., Li, A. K.  
1995; 82 (6): 844-848

● **TARGETED DISRUPTION OF THE MURINE VCAM1 GENE - ESSENTIAL ROLE OF VCAM-1 IN CHORIOALLANTOIC FUSION AND PLACENTATION** *GENES & DEVELOPMENT*

Gurtner, G. C., Davis, V., Li, H. M., McCoy, M. J., Sharpe, A., Cybulsky, M. I.  
1995; 9 (1): 1-14

● **2-TEAM SYNCHRONOUS ESOPHAGECTOMY** *BRITISH JOURNAL OF SURGERY*

Gurtner, G. C., Robertson, C. S., Chung, S. C., Li, A. K.  
1994; 81 (11): 1620-1622

● **LOW-DENSITY LIPOPROTEIN UNDERGOES OXIDATIVE MODIFICATION INVIVO** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*

Palinski, W., Rosenfeld, M. E., YLAHERTTUALA, S., Gurtner, G. C., SOCHER, S. S., Butler, S. W., Parthasarathy, S., CAREW, T. E., STEINBERG, D., WITZTUM, J. L.  
1989; 86 (4): 1372-1376

● **IMPROVED STATIC LUNG PRESERVATION WITH CORTICOSTEROIDS AND HYPOTHERMIA** *JOURNAL OF HEART TRANSPLANTATION*

Hall, T. S., Borkon, M., Gurtner, G. C., Brawn, J., Hutchins, G. M., Reitz, B. A., Baumgartner, W. A.  
1988; 7 (5): 348-352