Stanford



Deshka Foster, MD, PhD

Assistant Professor of Surgery (General Surgery)

Surgery - General Surgery

CLINICAL OFFICE (PRIMARY)

- **Surgical Oncology**

  875 Blake Wilbur Dr

  Clinic F MC 6560

  Stanford, CA 94305

  Tel (650) 498-6000 **Fax** (650) 736-4167

Bio

BIO

Dr. Deshka Foster is a dual fellowship-trained surgical oncologist and hepatopancreatobiliary (HPB) surgeon with Stanford Health Care. She is an assistant professor in the Department of Surgery, Division of General Surgery, Section of Surgical Oncology at Stanford University School of Medicine.

Dr. Foster offers advanced, personalized treatment for patients with HPB cancers, including cancers of the pancreas, bile ducts (cholangiocarcinoma), gallbladder, and liver, as well as gastrointestinal (GI) cancers. She also directs the Hepatic Arterial Infusion (HAI) Pump Therapy Program at Stanford.

As a surgeon-scientist, Dr. Foster holds a Ph.D. in Cancer Biology from Stanford University and leads a basic science and translational research laboratory, where her interests include pancreatic, bile duct, and liver tumor microenvironment and solid tumor response to immunotherapy. She and her laboratory team specifically research cells that influence tumor behavior and resistance to treatment, which cause tumor fibrosis (cancer-associated fibroblasts). The Foster Laboratory also studies abdominal adhesion fibrosis, which are internal scar tissue bands that form after surgical operations and can cause bowel obstruction and complicate further surgical procedures. Dr. Foster's team has developed a novel dual-actual therapeutic, which shows efficacy to prevent adhesion formation in small and large animal models.

Dr. Foster has published her research in high-impact peer-reviewed journals, including Cancer Cell, Science Translational Medicine, Nature Communications, Science, Cell, PNAS, Cell Reports Medicine, JAMA, and Annals of Surgical Oncology. She has presented to her colleagues at national and regional meetings, including those of the American Association for Cancer Research, Society of Surgical Oncology, the Americas Hepato-Pancreato-Biliary Association, the American College of Surgeons Clinical Congress, and the Annual Academic Surgical Congress.

Dr. Foster is a member of the American College of Surgeons, and she serves on the Research Committees for both the Society of Surgical Oncology and the Americas Hepato-Pancreato-Biliary Association/International Hepato-Pancreato-Biliary Association. She is also a member of the American Society of Clinical Oncology, the Society for Surgery of the Alimentary Tract, the Society of American Gastrointestinal and Endoscopic Surgeons, and the

Association of Women Surgeons. In addition, she is an associate member of the American Association for Cancer Research and a candidate member of the Association for Academic Surgery.

CLINICAL FOCUS

- Surgical Oncology
- Hepatopancreatobiliary (HPB) Surgery
- Pancreas cancer
- Cholangiocarcinoma
- Colorectal liver metastases
- Liver Surgery
- General Surgery

ACADEMIC APPOINTMENTS

- Assistant Professor-Univ Med Line, Surgery - General Surgery
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Associate Chair, Academic Affairs, Stanford Department of Surgery, (2026-2029)
- Director, Hepatic Arterial Infusion (HAI) Pump Therapy Program, Stanford Healthcare, (2025- present)

HONORS AND AWARDS

- Career Development Award, Society for Surgery of the Alimentary Tract (SSAT) (2026-2028)
- Medical Student Teaching Award, Weill Cornell Department of Surgery Teaching All Stars, Memorial Sloan Kettering Cancer Center (2025)
- Best Basic/Translational Oral Presentation, Holman Research Day, Stanford University Department of Surgery (2023)
- The Resident Research Award, Stanford Department of Surgery (2023)
- Dr. Hilary Sanfey Outstanding Resident Award, Association of Women Surgeons (AWS) Foundation (2022)
- The Resident Research Award, Stanford Department of Surgery (2021)
- Best Basic/Translational Abstract, Holman Research Day, Stanford University Department of Surgery (2020)
- The Resident Research Award, Stanford Department of Surgery (2020)
- NIH Loan Repayment Program (LRP) - Renewal, National Institutes of Health (2019-2020)
- NIH NCI F32, National Institutes of Health (2019 - present)
- Best Basic/Translational Oral Presentation, Holman Research Day, Stanford University Department of Surgery (2019)
- Excellence in Research Award, Surgical Oncology, American College of Surgeons (ACS) Clinical Congress (2019)
- The Resident Research Award, Stanford Department of Surgery (2019)
- Best Basic/Translational Oral Presentation, Holman Research Day, Stanford University Department of Surgery (2018)
- Excellence in Research Award, Surgical Oncology, American College of Surgeons (ACS) Clinical Congress (2018)
- Advanced Residency Training at Stanford (ARTS) Program, Stanford University School of Medicine (2017 - present)
- NIH Loan Repayment Program (LRP), National Institutes of Health (2017 - 2019)
- Resident Research Award, American College of Surgeons (ACS) (2017 - 2019)
- Fall Courses Travel Award, Association of Academic Surgery (AAS) (2017)
- The Donald R. Cooper, M.D. Award for Excellence in Surgery, Drexel University College of Medicine (2015)
- Women’s Health Scholar, Drexel University College of Medicine (2015)

- Fulbright Research Scholarship, U.S. Department of State (2010)
- FLAS Graduate Fellowship, U.S. Department of Education (2009)
- Firestone Medal for Excellence in Undergraduate Research, Stanford University (2008)
- Honors, Human Biology, Stanford University (2008)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Alpha Omega Alpha Medical Honors Society (2022 - present)
- Member, The Americas Hepato-Pancreato-Biliary Association (AHPBA) (2022 - present)
- Member, Society for Surgery of the Alimentary Tract (SSAT) (2022 - present)
- Associate Member, American Association for Cancer Research (AACR) (2018 - present)
- Member, Society of Surgical Oncology (SSO) (2018 - present)
- Candidate Member, Association for Academic Surgery (AAS) (2016 - present)
- Resident Member, Association of Women Surgeons (AWS) (2015 - present)
- Member, American College of Surgeons (ACS) (2013 - present)

PROFESSIONAL EDUCATION

- Board Certification, American Board of Surgery , Complex General Surgical Oncology (2026)
- Fellowship, Memorial Sloan Kettering Cancer Center, NYC , Complex General Surgical Oncology (2025)
- Fellowship, Memorial Sloan Kettering Cancer Center, NYC , Hepatopancreatobiliary (HPB) Surgery (2025)
- Board Certification: General Surgery, American Board of Surgery (2024)
- Residency: Stanford University Dept of General Surgery (2023) CA
- PhD, Stanford University School of Medicine , Cancer Biology (2020)
- MD, Drexel University College of Medicine , Medicine (2015)
- MA, Stanford University , African Studies (2011)
- BA with honors, Stanford University , Human Biology (2008)

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Cancer associated fibroblasts in hepatopancreatobiliary (HPB) malignancies, tumor microenvironment, abdominal adhesion biology and fibrosis

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Chia-Hsin Hsu

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (PhD Program)

Publications

PUBLICATIONS

- **Conservation of the tumour microenvironment across organs and species.** *Nature*

Januszyk, M., Lu, J. M., Korah, M., Jing, S. L., Xie, P. Y., Fallah, M., Pham, B., Guo, J. L., Berry, C. E., Wang, H. H., Talbott, H. E., Nee, K., Le, et al
2026

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

- **Single-nuclear RNA sequencing of retroperitoneal liposarcoma reveals progenitor cells of dedifferentiated liposarcoma in well-differentiated liposarcoma**
  Agolia, J., Korah, M. M., Tabora, A. D., Goncalves, A., Guo, C., Reveron-Thornton, R. F., Hsu, C., Reddy, B., Bobst, W., Longaker, M. T., Foster, D. S., Delitto, D.
  AMER ASSOC CANCER RESEARCH.2026: A016

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

- **Engineering a hydrogel-based vaccine to prevent recurrence in pancreatic ductal adenocarcinoma**
  Xie, P., Agolia, J. P., Reveron-Thornton, R. F., Guo, C., Korah, M., Delitto, A., Foster, D., Chaudhuri, O., Delitto, D.
  AMER ASSOC CANCER RESEARCH.2026

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

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

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

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

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

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

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

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

2026; 45 (1): 116849

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

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

- **Disruption of fibroblast MYD88 signaling promotes antitumor immunity in pancreatic ductal adenocarcinoma.** *Cell reports*
  Korah, M., Reveron-Thornton, R. F., Fallah, M., Xie, P. Y., Gonçalves, A., Guo, C., Agolia, J. P., Delitto, A. E., Flojo, R. A., Reddy, B., Yip, K. A., Lu, J. M., Tomasso, et al
  2025; 44 (10): 116347

- **Creeping fat-derived mechanosensitive fibroblasts drive intestinal fibrosis in Crohn's disease strictures.** *Cell*
  Bauer-Rowe, K. E., Pham, B., Griffin, M., Liang, N. E., Kim, A., Lu, J. M., Januszyk, M., Guo, J. L., De Santis, S., Xing, Y., Prystupa, A., Sidhu, I., Suh, et al
  2025

- **Postoperative adhesions are abrogated by a sustained-release anti-JUN therapeutic in preclinical models.** *Science translational medicine*
  Foster, D. S., Guo, J. L., Meany, E., Berry, C. E., Fallah, M., Korah, M., Januszyk, M., Bauer-Rowe, K. E., Lopez, D. M., Williams, C. M., Song, R., Griffin, M., Kim, et al
  2025; 17 (789): eadp9957

- **Outcomes of minimally invasive and open prophylactic gastrectomy for hereditary diffuse gastric cancer** *SURGICAL ONCOLOGY INSIGHT*
  Daniel, S. K., Foster, D. S., Ahmad, M., Forrester, J. D., Lee, B., Delitto, D., Kirane, A. R., Visser, B. C., Dua, M. M., Norton, J. A., Poultsides, G. A.
  2025; 2 (1)

- **Proceedings of the American College of Surgeons Surgical Adhesions Improvement Project Summit.** *Journal of the American College of Surgeons*
  Andersen, D., Wiseman, D., Foster, D., Appel, E., Cardenas, J., Zindel, J., Maggard-Gibbons, M., Ten Broek, R. P., De Wilde, R. L., Carmichael, S., Bauer, S., Mutsaers, S., Russell, et al
  2025

- **TGF-β Signaling Plays a Significant Role on the Skeletal Stem Cell and Tendon Enthesis Healing**
  Diiorio, S., Titan, A., Davitt, M., Foster, D., Menon, S., Fox, P. M., Chan, C. K., Quarto, N., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2024: S402

- **Organoid Assessment of IL-1 Inhibition in Human Pancreatic Ductal Adenocarcinoma**
  Morgan, A., Griffin, M., Guo, C., Parker, J. B. L., Januszyk, M., Foster, D. S., Poultsides, G. A., Delitto, D., Longaker, M. T., Norton, J. A.
  LIPPINCOTT WILLIAMS & WILKINS.2024: S451-S452

- **Simultaneous Multiomic Single-Cell Analysis Reveals Gene Regulatory Mechanism of Interleukin-Based Immunotherapy in Pancreatic Ductal Adenocarcinoma**
  Guo, C., Morgan, A., Griffin, M., Parker, J. B. L., Januszyk, M., Foster, D., Delitto, D., Longaker, M. T., Norton, J. A.
  LIPPINCOTT WILLIAMS & WILKINS.2024: S456

- **Investigation of Creeping Fat Associated Fibroblasts in Smooth Muscle Cell Hypertrophy in Crohn's Disease Stricture Formation**
  Pham, B., Bauer-Rowe, K. E., Liang, N., Griffin, M., Guo, J. L., Foster, D., Norton, J. A., Hyun, J. S., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2024: S93

- **Hematoxylin and Eosin Architecture Uncovers Clinically Divergent Niches in Pancreatic Cancer** *TISSUE ENGINEERING PART A*
  Guo, J. L., Lopez, D. M., Mascharak, S., Foster, D. S., Khan, A., Davitt, M. F., Nguyen, A. T., Burcham, A. R., Chinta, M. S., Guardino, N. J., Griffin, M., Miller, E., Januszyk, et al
  2024; 30 (19-20): 605-613

- **Hematoxylin and Eosin Architecture Uncovers Clinically Divergent Niches in Pancreatic Cancer.** *Tissue engineering. Part A*

Guo, J. L., Lopez, D. M., Mascharak, S., Foster, D. S., Khan, A., Davitt, M. F., Nguyen, A. T., Burcham, A. R., Chinta, M. S., Guardino, N. J., Griffin, M., Miller, E., Januszyk, et al
2024

- **From Stroma to Scalpel: Celebrating a Mentor in Science and Surgery.** *Annals of surgical oncology*
  Foster, D. S.
  2024

- **Single cell pharmacogenic pipeline identifies novel opportunities in uterine leiomyosarcoma**
  Daniel, S. K., Foster, D., Nosrati, F., Korah, M., Fallah, M., Sun, B. J., Loftus, T., Hu, D., Dua, M., Visser, B., Poultsides, G., Kirane, A., Longaker, et al
  SPRINGER.2024: S42

- **Where There Is Fat, There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Kim, A., Griffin, M., Liang, N., Foster, D., Guo, J. L., Norton, J. A., Longaker, M. T., Hyun, J. S.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S365-S366

- **Investigating Dysmotility and the Expansion of Glial Cells and Interstitial Cells of Cajal in Crohn's Disease Strictures Using a Novel Surgical Mouse Model**
  Kim, A., Bauer-rowe, K. E., Griffin, M., Foster, D., Longaker, M. T., Hyun, J. S.
  LIPPINCOTT WILLIAMS & WILKINS.2023: S355

- **Desmoplastic stromal signatures predict patient outcomes in pancreatic ductal adenocarcinoma.** *Cell reports. Medicine*
  Mascharak, S., Guo, J. L., Foster, D. S., Khan, A., Davitt, M. F., Nguyen, A. T., Burcham, A. R., Chinta, M. S., Guardino, N. J., Griffin, M., Lopez, D. M., Miller, E., Januszyk, et al
  2023: 101248

- **Mechanoresponsive Pancreatic Ductal Adenocarcinoma Cancer Associated Fibroblasts Shows an FAK-Dependent Subtype Divergent from Canonical Fibrotic TGFB-Pathway Dependence**
  Foster, D., Delitto, D., Januszyk, M., Yost, K., Griffin, M., Guo, J., Guardino, N., Delitto, A., Chinta, M., Burcham, A., Nguyen, A., Bauer-, K., Berry, et al
  SPRINGER.2023: S30-S31

- **Multiplexed evaluation of mouse wound tissue using oligonucleotide barcoding with single-cell RNA sequencing.** *STAR protocols*
  Januszyk, M., Griffin, M., Mascharak, S., Talbott, H. E., Chen, K., Henn, D., Spielman, A. F., Parker, J. B., Liang, N. E., Cotterell, A., Guardino, N., Foster, D. S., Wagh, et al
  2022; 4 (1): 101946

- **Macrophage inflammatory and regenerative response periodicity is programmed by cell cycle and chromatin state.** *Molecular cell*
  Daniel, B., Belk, J. A., Meier, S. L., Chen, A. Y., Sandor, K., Czimmerer, Z., Varga, Z., Bene, K., Buquicchio, F. A., Qi, Y., Kitano, H., Wheeler, J. R., Foster, et al
  2022

- **Machine Learning-Based Desmoplastic Signatures Predict Patient Outcomes in Pancreatic Ductal Adenocarcinoma**
  Guo, J. L., Mascharak, S., Foster, D. S., Guardino, N. J., Griffin, M., Miller, E., Raghavan, S., Longacre, T. A., Norton, J. A., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2022: S53-S54

- **Where There Is Fat There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Kim, A., Griffin, M., Foster, D., Guardino, N., Guo, J. L., Talbott, H. E., Norton, J. A., Hyun, J. S., Longaker, M. T.
  LIPPINCOTT WILLIAMS & WILKINS.2022: S59-S60

- **Multiomic analysis reveals conservation of cancer-associated fibroblast phenotypes across species and tissue of origin.** *Cancer cell*
  Foster, D. S., Januszyk, M., Delitto, D., Yost, K. E., Griffin, M., Guo, J., Guardino, N., Delitto, A. E., Chinta, M., Burcham, A. R., Nguyen, A. T., Bauer-Rowe, K. E., Titan, et al
  2022

- **Effects of hospital facilities on patient outcomes after cancer surgery: an international, prospective, observational study** *LANCET GLOBAL HEALTH*
  Knight, S. R., Chu, K., Lapitan, M., Dare, A. J., Pius, R., Shaw, C. A., Drake, T. M., Norman, L., Ademuyiwa, A. O., Adisa, A. O., Aguilera, M., Al-Saqqa, S. W., Al-Slaibi, et al
  2022; 10 (7): E1003-E1011

- **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
- **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
- **Surgery for Hereditary Diffuse Gastric Cancer: Long-Term Outcomes.** *Cancers*
  Forrester, J. D., Foster, D., Ford, J. M., Longacre, T. A., Ladabaum, U., Fry, S., Norton, J. A.
  2022; 14 (3)
- **Where There Is Fat There Is Fibrosis: Elucidating the Mechanisms of Creeping Fat-Driven Stricture Formation**
  Bauer-Rowe, K. E., Griffin, M., Foster, D., desJardins-Park, H. E., Mascharak, S., Norton, J. A., Hyun, J. S., Longaker, M. T.
  ELSEVIER SCIENCE INC.2021: S65
- **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
- **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)
- **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
- **Skin angiography assisted mastectomy in secondary breast angiosarcoma: Complete clinical response after neoadjuvant immunotherapy.** *The breast journal*
  Ju, T., Foster, D., Titan, A., Najjar, S., Bean, G. R., Ganjoo, K., Wapnir, I.
  2021
- **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., Januszyk, M., Kwon, et al
  2021; 372 (6540)
- **Global variation in postoperative mortality and complications after cancer surgery: a multicentre, prospective cohort study in 82 countries** *LANCET*
  Knight, S. R., Shaw, C. A., Pius, R., Drake, T. M., Norman, L., Ademuyiwa, A. O., Adisa, A. O., Aguilera-Arevalo, M., Al-Saqqa, S. W., Al-Slaibi, I. S., Bhangu, A., Biccard, B. M., Brocklehurst, et al
  2021; 397 (10272): 387–97
- **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
- **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
- **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., Januszyk, et al

2021; 10 (18)

- **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

- **Prrx1 Fibroblasts Represent a Pro-fibrotic Lineage in the Mouse Ventral Dermis.** *Cell reports*
  Leavitt, T., Hu, M. S., Borrelli, M. R., Januszyk, M., Garcia, J. T., Ransom, R. C., Mascharak, S., desJardins-Park, H. E., Litzenburger, U. M., Walmsley, G. G., Marshall, C. D., Moore, A. L., Duoto, et al
  2020; 33 (6): 108356

- **Ectoderm-Derived Wnt and Hedgehog Signaling Drive Digit Tip Regeneration**
  Barrera, J., Maan, Z. N., Foster, D., Henn, D., Chen, K., Bonham, C., Januszyk, M., Longaker, M. T., Weissman, I., Gurtner, G. C.
  ELSEVIER SCIENCE INC.2020: S186

- **Detection, Scoring, and Classification of Solid Organ Fibroses with Machine Learning Analysis**
  Mascharak, S., desJardins-Park, H. E., Davitt, M., Foster, D. S., Chinta, M., Wan, D. C., Wernig, G., Longaker, M. T.
  ELSEVIER SCIENCE INC.2020: S222

- **A Surgical Model for Investigating the Role of Creeping Fat in Intestinal Fibrosis**
  Bauer-Rowe, K. E., Foster, D., Titan, A., Chinta, M., desJardins-Park, H., Griffin, M., Longaker, M. T.
  ELSEVIER SCIENCE INC.2020: S50–S51

- **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., Januszyk, M., Gurtner, G. C., Wernig, G., Longaker, M. T.
  ELSEVIER SCIENCE INC.2020: S236–S237

- **Peripheral Motor Neuron Activity Influences over Local Sarcoma Progression**
  Davitt, M., Foster, D., Mascharak, S., desJardins-Park, H., Norton, J., Longaker, M. T.
  ELSEVIER SCIENCE INC.2020: S230–S231

- **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)

- **Doxycycline Reduces Scar Thickness and Improves Collagen Architecture** *ANNALS OF SURGERY*
  Moore, A. L., desJardins-Park, H. E., Duoto, B. A., Mascharak, S., Murphy, M. P., Irizarry, D. M., Foster, D. S., Jones, R. E., Barnes, L. A., Marshall, C. D., Ransom, R. C., Wernig, G., Longaker, et al
  2020; 272 (1): 183–93

- **Fibroblast Heterogeneity in and Its Implications for Plastic and Reconstructive Surgery: A Basic Science Review** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*
  desJardins-Park, H. E., Chinta, M. S., Foster, D. S., Borrelli, M. R., Shen, A. H., Wan, D. C., Longaker, M. T.
  2020; 8 (6)

- **Fibroblast Heterogeneity in and Its Implications for Plastic and Reconstructive Surgery: A Basic Science Review.** *Plastic and reconstructive surgery. Global open*
  desJardins-Park, H. E., Chinta, M. S., Foster, D. S., Borrelli, M. R., Shen, A. H., Wan, D. C., Longaker, M. T.
  2020; 8 (6): e2927

- **Pancreatic Cancer Associated Fibroblasts (CAF): Under-Explored Target for Pancreatic Cancer Treatment.** *Cancers*
  Norton, J. n., Foster, D. n., Chinta, M. n., Titan, A. n., Longaker, M. n.
  2020; 12 (5)

- **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

- **Evaluation of Outcomes Following Surgery for Locally Advanced Pancreatic Neuroendocrine Tumors.** *JAMA network open*

Titan, A. L., Norton, J. A., Fisher, A. T., Foster, D. S., Harris, E. J., Worhunsky, D. J., Worth, P. J., Dua, M. M., Visser, B. C., Poultsides, G. A., Longaker, M. T., Jensen, R. T.
2020; 3 (11): e2024318

- **Breast Surgery** *Anesthesiologist's Manual of Surgical Procedures*
  Wapnir, I. L., Foster, D. S., Momeni, A., Schmiesing, C.
  Dr. Richard A. Jaffe.2020; 6

- **Management of Pancreatic Islet Cell Tumors Excluding Gastrinoma** *Current Surgical Therapy*
  Foster, D. S., Norton, J. A.
  John Cameron.2020; 13

- **Endogenous Breast Cancer Shows Clonal Proliferation of Cancer Associated Fibroblasts at Primary Tumor and Metastatic Sites**
  Foster, D. S., Chinta, M., Nguyen, A. T., Salhotra, A., Ransom, R., Jones, R., Titan, A. L., Mascharak, S., Norton, J. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S262

- **Role of the Skeletal Stem Cell in Achilles Tendon to Bone Interface Healing**
  Titan, A. L., Jones, R., Salhotra, A., Robertson, K. S., Foster, D., Menon, S., Murphy, M., Lucero, G. V., Chan, C. K., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S228–S229

- **Effect of Mechanical Loading on Clonality of Injured Flexor Tendons after Repair**
  Titan, A. L., Foster, D., Jones, R., Salhotra, A., Nguyen, A. T., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S221

- **Fibroblast Proliferation in Wound Healing Is Clonal and Focal Adhesion Kinase-Dependent**
  Chinta, M., Foster, D., Nguyen, A. T., Salhotra, A., Ransom, R. C., Jones, R., Titan, A. L., Marshall, C., Mascharak, S., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S223

- **Regenerative Skin Healing Through Targeted Modulation of Engrailed1-Negative Fibroblasts**
  Mascharak, S., desJardins-Park, H. E., Moore, A. L., Borrelli, M. R., Chinta, M., Foster, D., Lorenz, H., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S228

- **Cancer-Associated Fibroblasts Persist but Show Decreased Fibroblast Activation Protein Expression after Neoadjuvant Chemotherapy in Human Pancreatic Ductal Adenocarcinoma**
  Foster, D. S., Nguyen, A. T., Chinta, M., Titan, A. L., Salhotra, A., Jones, R., Mascharak, S., Norton, J., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S257–S258

- **Tumors Co-Opt Fibroblast Wound Healing Capacity**
  Foster, D. S., Mascharak, S., Nguyen, A. T., Chinta, M., Salhotra, A., Titan, A. L., Jones, R., da Silva, O., Norton, J. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2019: S231–S232

- **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

- **Wound healing and fibrosis: current stem cell therapies.** *Transfusion*
  Jones, R. E., Foster, D. S., Hu, M. S., Longaker, M. T.
  2019; 59 (S1): 884-892

- **Management of Ileal Neuroendocrine Tumors with Liver Metastases.** *Journal of gastrointestinal surgery : official journal of the Society for Surgery of the Alimentary Tract*
  Fisher, A. T., Titan, A. L., Foster, D. S., Worth, P. J., Poultsides, G. A., Visser, B. C., Dua, M. M., Norton, J. A.
  2019

- **Skeletal Stem Cell-Schwann Cell Circuitry in Mandibular Repair.** *Cell reports*
  Jones, R. E., Salhotra, A. n., Robertson, K. S., Ransom, R. C., Foster, D. S., Shah, H. N., Quarto, N. n., Wan, D. C., Longaker, M. T.
  2019; 28 (11): 2757–66.e5

- **Flexor Tendon: Development, Healing, Adhesion Formation, and Contributing Growth Factors.** *Plastic and reconstructive surgery*
  Titan, A. L., Foster, D. S., Chang, J. n., Longaker, M. T.

2019; 144 (4): 639e–647e

- **A Clearing Technique to Enhance Endogenous Fluorophores in Skin and Soft Tissue.** *Scientific reports*
  Foster, D. S., Nguyen, A. T., Chinta, M. n., Salhotra, A. n., Jones, R. E., Mascharak, S. n., Titan, A. L., Ransom, R. C., da Silva, O. L., Foley, E. n., Briger, E. n., Longaker, M. T.
  2019; 9 (1): 15791
- **Doxycycline Reduces Scar Thickness and Improves Collagen Architecture.** *Annals of surgery*
  Moore, A. L., desJardins-Park, H. E., Duoto, B. A., Mascharak, S., Murphy, M. P., Irizarry, D. M., Foster, D. S., Jones, R. E., Barnes, L. A., Marshall, C. D., Ransom, R. C., Wernig, G., Longaker, et al
  2018
- **Management of Liver Neuroendocrine Tumors in 2018** *JAMA ONCOLOGY*
  Foster, D. S., Jensen, R., Norton, J. A.
  2018; 4 (11): 1605–6
- **Author Correction: Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes.** *Nature communications*
  Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R. E., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Brett, E. A., Wan, D. C., Longaker, M. T.
  2018; 9 (1): 4411
- **Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes (vol 9, 2971, 2018)** *NATURE COMMUNICATIONS*
  Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Brett, E. A., Wan, D. C., Longaker, M. T.
  2018; 9
- **Management of Chronic Wounds-2018.** *JAMA*
  Jones, R. E., Foster, D. S., Longaker, M. T.
  2018; 320 (14): 1481-1482
- **Acta2, Tnc, and Col24a1 Expression Are Associated with Abdominal Adhesion Formation**
  Marshall, C. D., Foster, D. S., Ransom, R. C., Manjunath, A., Gulati, G., Hu, M. S., Moore, A. L., Barnes, L. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: E128
- **Nerve-Dependent Mandibular Regeneration by Skeletal Stem Cells in Fracture Repair**
  Jones, R., Ransom, R. C., Salhotra, A., Foster, D. S., Wan, D. C., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: S197
- **Reduced Scar Thickness Achieved by Topical Doxycycline Is Mediated by Specific Skin Fibroblast Populations and Not Immune Cell Infiltrate**
  Moore, A. L., Murphy, M. P., Irizarry, D. M., Des Jardins-Park, H. E., Duoto, B. A., Mascharak, S., Foster, D. S., Jones, R., Wernig, G., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: S210–S211
- **Clonal Analysis of Local Fibroblasts in Wound Healing and Tumor Stroma**
  Foster, D. S., Ransom, R. C., Nguyen, A. T., Salhotra, A., Jones, R. E., Hu, M. S., Norton, J. A., Longaker, M. T.
  ELSEVIER SCIENCE INC.2018: S236
- **The evolving relationship of wound healing and tumor stroma.** *JCI insight*
  Foster, D. S., Jones, R. E., Ransom, R. C., Longaker, M. T., Norton, J. A.
  2018; 3 (18)
- **Gastrinomas: Medical or Surgical Treatment.** *Endocrinology and metabolism clinics of North America*
  Norton, J. A., Foster, D. S., Ito, T., Jensen, R. T.
  2018; 47 (3): 577–601
- **Gastrinomas Medical or Surgical Treatment** *ENDOCRINOLOGY AND METABOLISM CLINICS OF NORTH AMERICA*
  Norton, J. A., Foster, D. S., Ito, T., Jensen, R. T.
  2018; 47 (3): 577-+
- **Management of Liver Neuroendocrine Tumors in 2018.** *JAMA oncology*

Foster, D. S., Jensen, R., Norton, J. A.
2018

- **Fibroblasts and wound healing: an update.** *Regenerative medicine*
des Jardins-Park, H. E., Foster, D. S., Longaker, M. T.
2018

- **Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes.** *Nature communications*
Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R. E., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Wan, D. C., Longaker, M. T.
2018; 9 (1): 2971

- **Genetic dissection of clonal lineage relationships with hydroxytamoxifen liposomes** *NATURE COMMUNICATIONS*
Ransom, R. C., Foster, D. S., Salhotra, A., Jones, R., Marshall, C. D., Leavitt, T., Murphy, M. P., Moore, A. L., Blackshear, C. P., Wan, D. C., Longaker, M. T.
2018; 9

- **Fibroblasts and wound healing: an update** *REGENERATIVE MEDICINE*
desJardins-Park, H. E., Foster, D. S., Longaker, M. T.
2018; 13 (5): 491–95

- **Incidence and Prognosis of Primary Gastrinomas in the Hepatobiliary Tract** *JAMA SURGERY*
Norton, J. A., Foster, D. S., Blumgart, L. H., Poultsides, G. A., Visser, B. C., Fraker, D. L., Alexander, H., Jensen, R. T.
2018; 153 (3): e175083

- **Axillary reverse mapping with indocyanine green or isosulfan blue demonstrate similar crossover rates to radiotracer identified sentinel nodes** *JOURNAL OF SURGICAL ONCOLOGY*
Foster, D., Choy, N., Porter, C., Ahmed, S., Wapnir, I.
2018; 117 (3): 336–40

- **Endoscopic Excision of Benign Facial Masses in Children: A Review of Outcomes** *JOURNAL OF LAPAROENDOSCOPIC & ADVANCED SURGICAL TECHNIQUES*
Foster, D., Sinclair, T. J., Taylor, J. S., Dutta, S., Lorenz, H. P., Bruzoni, M.
2018; 28 (5): 617-621

- **Endoscopic Excision of Benign Facial Masses in Children: A Review of Outcomes.** *Journal of laparoendoscopic & advanced surgical techniques. Part A*
Foster, D. n., Sinclair, T. J., Taylor, J. S., Dutta, S. n., Lorenz, H. P., Bruzoni, M. n.
2018

- **Wound Healing and Fibrosis: Current Stem Cell Therapies** *Transfusion*
Jones, R., Foster, D. S., Hu, M., Longaker, M. T.
2018

- **Surgical Site Infections after Inguinal Hernia Repairs Performed in Low and Middle Human Development Index Countries: A Systematic Review.** *Surgical infections*
Cai, L. Z., Foster, D. n., Kethman, W. C., Weiser, T. G., Forrester, J. D.
2017

- **Surgical Site Infections after Appendectomy Performed in Low and Middle Human Development-Index Countries: A Systematic Review.** *Surgical infections*
Foster, D. n., Kethman, W. n., Cai, L. Z., Weiser, T. G., Forrester, J. D.
2017

- **Regression of experimental NIS-expressing breast cancer brain metastases in response to radioiodide/gemcitabine dual therapy** *ONCOTARGET*
Renier, C., Do, J., Reyna-Neyra, A., Foster, D., De, A., Vogel, H., Jeffrey, S. S., Tse, V., Carrasco, N., Wapnir, I.
2016; 7 (34): 54811-54824

- **Palliative Surgery for Advanced Cancer: Identifying Evidence-Based Criteria for Patient Selection: Case Report and Review of Literature** *JOURNAL OF PALLIATIVE MEDICINE*

Foster, D., Shaikh, M. F., Gleeson, E., Babcock, B. D., Ringold, D., Bowne, W. B.
2016; 19 (1): 22-29

- **Pancreatic mucinous cystic neoplasm in a transgender patient** *WORLD JOURNAL OF SURGICAL ONCOLOGY*
  Foster, D., Shaikh, M. F., Gleeson, E., Babcock, B. D., Lin, J., Ownbey, R. T., Hysell, M. E., Ringold, D., Bowne, W. B.
  2015; 13
- **Richter-type Spigelian hernia: A case report and review of the literature.** *International journal of surgery case reports*
  Foster, D., Nagarajan, S., Panait, L.
  2015; 6C: 160-162
- **Evaluation of three rapid diagnostic tests for the detection of human infections with Plasmodium knowlesi** *MALARIA JOURNAL*
  Foster, D., Cox-Singh, J., Mohamad, D. S., Krishna, S., Chin, P. P., Singh, B.
  2014; 13
- **Ex vivo Evans blue assessment of the blood brain barrier in three breast cancer brain metastasis models.** *Breast cancer research and treatment*
  Do, J., Foster, D., Renier, C., Vogel, H., Rosenblum, S., Doyle, T. C., Tse, V., Wapnir, I.
  2014; 144 (1): 93-101
- **Two treatments, one disease: childhood malaria management in Tanga, Tanzania** *MALARIA JOURNAL*
  Foster, D., Vilendrer, S.
  2009; 8