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Publications

PUBLICATIONS

- **Immediate Targeted Nipple-Areolar Complex Re-Innervation: Improving Outcomes in Immediate Autologous Breast Reconstruction**
Tevlin, R., Wapnir, I., Nguyen, D.
ELSEVIER SCIENCE INC.2020: S226–S227
- **Air vs Saline: Effect of Tissue Expander Fill Prepectoral Breast Reconstruction Postoperative Complication**
Rizk, N., Martin, S., Tevlin, R., Lee, G., Nazerali, R.
ELSEVIER SCIENCE INC.2020: E81
- **Immediate targeted nipple-areolar complex re-innervation: Improving outcomes in immediate autologous breast reconstruction.** *Journal of plastic, reconstructive & aesthetic surgery : JPRAS*
Tevlin, R., Brazio, P., Tran, N., Nguyen, D.
2020
- **Should free deep inferior epigastric artery perforator flaps be considered a quality indicator in breast reconstruction?** *Journal of plastic, reconstructive & aesthetic surgery : JPRAS*
Tevlin, R., Wan, D. C., Momeni, A.
2019
- **Acellular Dermal Matrix Reduces Myofibroblast Presence in the Breast Capsule.** *Plastic and reconstructive surgery. Global open*
Tevlin, R., Borrelli, M. R., Irizarry, D., Nguyen, D., Wan, D. C., Momeni, A.
2019; 7 (5): e2213
- **Preoperative Computed Tomography Angiography in Autologous Breast Reconstruction-Incidence and Impact of Incidentalomas** *PLASTIC AND RECONSTRUCTIVE SURGERY-GLOBAL OPEN*
Tevlin, R., Borrelli, M. R., Dung Nguyen, Momeni, A.
2018; 6 (12): e2019
- **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
- **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
- **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): 262–75
- **Shifting Skeletal Stem Cell Dynamics Underlie Skeletal Aging in Mice**

Marecic, O., McArdle, A., Seo, E., Tevlin, R., Gulati, G. S., Murphy, M. P., Lopez, M., Weissman, I. L., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2017: S166

- **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)
- **Human Adipose-Derived Stromal Cell Isolation Methods and Use in Osteogenic and Adipogenic In Vivo Applications.** *Current protocols in stem cell biology*
Brett, E., Tevlin, R., McArdle, A., Seo, E. Y., Chan, C. K., Wan, D. C., Longaker, M. T.
2017; 43
- **A Novel Method of Human Adipose-Derived Stem Cell Isolation with Resultant Increased Cell Yield** *PLASTIC AND RECONSTRUCTIVE SURGERY*
Tevlin, R., McArdle, A., Brett, E., Chung, M. T., Paik, K., Seo, E. Y., Walmsley, G. G., Duldulao, C. R., Atashroo, D., Zielins, E., Vistnes, S., Chan, C. K., Wan, et al
2016; 138 (6): 983E-996E
- **Stem and progenitor cells: advancing bone tissue engineering.** *Drug delivery and translational research*
Tevlin, R., Walmsley, G. G., Marecic, O., Hu, M. S., Wan, D. C., Longaker, M. T.
2016; 6 (2): 159-173
- **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
- **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
- **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., McArdle, A., Tong, X., Januszyk, M., Yang, F., Gurtner, G. C., Chan, C. F., Weissman, I. L., Longaker, M. T.
ELSEVIER SCIENCE INC.2015: S115
- **Identification and characterization of an injury-induced skeletal progenitor** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Marecic, O., Tevlin, R., McArdle, A., Seo, E. Y., Wearda, T., Duldulao, C., Walmsley, G. G., Nguyen, A., Weissman, I. L., Chan, C. K., Longaker, M. T.
2015; 112 (32): 9920-9925
- **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
- **Nanotechnology in bone tissue engineering** *NANOMEDICINE-NANOTECHNOLOGY BIOLOGY AND MEDICINE*
Walmsley, G. G., McArdle, A., Tevlin, R., Momeni, A., Atashroo, D., Hu, M. S., Feroze, A. H., Wong, V. W., Lorenz, P. H., Longaker, M. T., Wan, D. C.
2015; 11 (5): 1253-1263
- **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
- **The role and regulation of osteoclasts in normal bone homeostasis and in response to injury.** *Plastic and reconstructive surgery*

- McArdle, A., Marecic, O., Tevlin, R., Walmsley, G. G., Chan, C. K., Longaker, M. T., Wan, D. C.
2015; 135 (3): 808-816
- **Identification and specification of the mouse skeletal stem cell.** *Cell*
Chan, C. K., Seo, E. Y., Chen, J. Y., Lo, D., McArdle, A., Sinha, R., Tevlin, R., Seita, J., Vincent-Tompkins, J., Wearda, T., Lu, W., Senarath-Yapa, K., Chung, et al
2015; 160 (1-2): 285-298
 - **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
 - **Assessment of viability of human fat injection into nude mice with micro-computed tomography.** *Journal of visualized experiments : JoVE*
Atashroo, D. A., Paik, K. J., Chung, M. T., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C. R., Walmsley, G. G., Wearda, T., Marecic, O., Longaker, M. T., Wan, et al
2015
 - **Isolation and Enrichment of Human Adipose-derived Stromal Cells for Enhanced Osteogenesis.** *Journal of visualized experiments : JoVE*
Zielins, E. R., Tevlin, R., Hu, M. S., Chung, M. T., McArdle, A., Paik, K. J., Atashroo, D., Duldulao, C. R., Luan, A., Senarath-Yapa, K., Walmsley, G. G., Wearda, T., Longaker, et al
2015
 - **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
 - **Isolation and enrichment of human adipose-derived stromal cells for enhanced osteogenesis.** *Journal of visualized experiments : JoVE*
Zielins, E. R., Tevlin, R., Hu, M. S., Chung, M. T., McArdle, A., Paik, K. J., Atashroo, D., Duldulao, C. R., Luan, A., Senarath-Yapa, K., Walmsley, G. G., Wearda, T., Longaker, et al
2015: 52181-?
 - **Assessment of viability of human fat injection into nude mice with micro-computed tomography.** *Journal of visualized experiments : JoVE*
Atashroo, D. A., Paik, K. J., Chung, M. T., McArdle, A., Senarath-Yapa, K., Zielins, E. R., Tevlin, R., Duldulao, C. R., Walmsley, G. G., Wearda, T., Marecic, O., Longaker, M. T., Wan, et al
2015
 - **Biomaterials for Craniofacial Bone Engineering** *JOURNAL OF DENTAL RESEARCH*
Tevlin, R., McArdle, A., Atashroo, D., Walmsley, G. G., Senarath-Yapa, K., Zielins, E. R., Paik, K. J., Longaker, M. T., Wan, D. C.
2014; 93 (12): 1187-1195
 - **The Optimal Fat Graft: Evaluating the Biomechanical Effects of Diameter, Length, and Flow Rate during Fat Placement**
Atashroo, D., Wearda, T., Raphael, J., Paik, K., Zielins, E. R., Walmsley, G. G., Tevlin, R., Wan, D. C., Heilshorn, S., Longaker, M. T.
ELSEVIER SCIENCE INC.2014: S90
 - **Impaired Angiogenesis: A Critical Contributor to Problematic Fracture Healing in Diabetes**
Tevlin, R., McArdle, A., Senarath-Yapa, K., Rodrigues, M., Maan, Z. N., Li, S., Chan, C. K., Brunski, J., Gurtner, G. C.
ELSEVIER SCIENCE INC.2014: S83
 - **Diminished Recruitment of Resident Skeletal Progenitor Cells in Diabetic Fracture Healing**
Tevlin, R., Seo, E., McArdle, A., Marecic, O., Wearda, T., Senarath-Yapa, K., Zielins, E. R., Chan, C. K., Weissman, I. L., Longaker, M. T.
ELSEVIER SCIENCE INC.2014: S82
 - **Heterochronic Parabiosis Rejuvenates Aged Bones**
McArdle, A., Tevlin, R., Marecic, O., Wearda, T., Senarath-Yapa, K., Walmsley, G. G., Snyder, M. P., Weissman, I. L., Chan, C. K., Longaker, M. T.
ELSEVIER SCIENCE INC.2014: S82-S83
 - **Response of Skeletal Progenitor Cells to Fracture Injury in a Mouse Model**
Marecic, O., McArdle, A., Seo, E., Tevlin, R., Duldulao, C., Wearda, T., Chan, C., Weissman, I. L., Longaker, M. T.
ELSEVIER SCIENCE INC.2014: S86
 - **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 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
 - **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
 - **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
 - **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
 - **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 165: Enhanced Adipose-Derived Stromal Cell Osteogenesis through Surface Marker Enrichment and BMP Modulation using Magnet-assisted Transfection.** *Plastic and reconstructive surgery*
Chung, M. T., Morrison, S. D., Paik, K. J., McArdle, A., Walmsley, G., Senarath-Yapa, K., Hu, M. S., Tevlin, R., Zielins, E., Atashroo, D., Hong, W. X., Duldulao, C., Wearda, et al
2014; 133 (3): 181-182
 - **Abstract 161: identification of cell-intrinsic mechanisms and differentially regulated genetic pathways responsible for the age-related functional decline in aged skeletal stem cells.** *Plastic and reconstructive surgery*
McArdle, A., Chan, C., Seita, J., Senarath-Yapa, K., Hu, M., Walmsley, G. G., Zielins, E., Atashroo, D., Tevlin, R., Weissman, I., Longaker, M. T.
2014; 133 (3): 178-?
 - **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
 - **Osteoclast derivation from mouse bone marrow.** *Journal of visualized experiments : JoVE*
Tevlin, R., McArdle, A., Chan, C. K., Pluvinage, J., Walmsley, G. G., Wearda, T., Marecic, O., Hu, M. S., Paik, K. J., Senarath-Yapa, K., Atashroo, D. A., Zielins, E. R., Wan, et al
2014
 - **Osteoclast derivation from mouse bone marrow.** *Journal of visualized experiments : JoVE*
Tevlin, R., McArdle, A., Chan, C. K., Pluvinage, J., Walmsley, G. G., Wearda, T., Marecic, O., Hu, M. S., Paik, K. J., Senarath-Yapa, K., Atashroo, D. A., Zielins, E. R., Wan, et al
2014
 - **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