Kristine C. Rustad
Resident in Surgery - Plastic & Reconstructive Surgery

Publications

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): 315-41S

Extracellular superoxide dismutase deficiency impairs wound healing in advanced age by reducing neovascularization and fibroblast
function EXPERIMENTAL DERMATOLOGY
2016; 25 (3): 206-211

Loss of Keratinocyte Focal Adhesion Kinase Stimulates Dermal Proteolysis Through Upregulation of MMP9 in Wound Healing ANNALS OF SURGERY
2014; 260 (6): 1138-1146

A histological and mechanical analysis of the cardiac lead-tissue interface: implications for lead extraction. Acta biomaterialia
2014; 10 (5): 2200-2208

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

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

Focal adhesion kinase links mechanical force to skin fibrosis via inflammatory signaling NATURE MEDICINE
2012; 18 (1): 148-152

Enhancement of mesenchymal stem cell angiogenic capacity and stemness by a biomimetic hydrogel scaffold BIOMATERIALS
2012; 33 (1): 80-90

Mechanical force prolongs acute inflammation via T-cell-dependent pathways during scar formation FASEB JOURNAL
2011; 25 (12): 4498-4510

Pullulan Hydrogels Improve Mesenchymal Stem Cell Delivery into High-Oxidative-Stress Wounds MACROMOLECULAR BIOSCIENCE
2011; 11 (11): 1458-1466

Engineered Pullulan-Collagen Composite Dermal Hydrogels Improve Early Cutaneous Wound Healing TISSUE ENGINEERING PART A
2011; 17 (5-6): 631-644
• Akt-mediated mechanotransduction in murine fibroblasts during hypertrophic scar formation
  *WOUND REPAIR AND REGENERATION*
  2011; 19 (1): 49-58

• 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

• 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