



Sungwoo Kim

Basic Life Research Scientist, Orthopaedic Surgery

Bio

INSTITUTE AFFILIATIONS

- Member (Staff), Cardiovascular Institute

Publications

PUBLICATIONS

- **Effect of Plasma Treatment and Its Post Process Duration on Shear Bonding Strength and Antibacterial Effect of Dental Zirconia.** *Materials (Basel, Switzerland)*
Park, C., Park, S., Yun, K., Ji, M., Kim, S., Yang, Y. P., Lim, H.
2018; 11 (11)
- **Effect of electron beam sterilization on 3D printed PCL/beta-TCP scaffolds for bone tissue engineering.** *Tissue engineering. Part A*
Bruyas, A., Moeinzadeh, S., Kim, S., Lowenberg, D. W., Yang, Y. P.
2018
- **Functionally Graded, Bone- and Tendon-Like Polyurethane for Rotator Cuff Repair** *ADVANCED FUNCTIONAL MATERIALS*
Ker, D., Wang, D., Behn, A., Wang, E., Zhang, X., Zhou, B., Mercado-Pagan, A., Kim, S., Kleimeyer, J., Gharaibeh, B., Shanjani, Y., Nelson, D., Safran, et al
2018; 28 (20)
- **Functional Outcomes of Heparin-Binding Epidermal Growth Factor-Like Growth Factor for Regeneration of Chronic Tympanic Membrane Perforations in Mice** *TISSUE ENGINEERING PART A*
Maria, P. L., Gottlieb, P., Maria, C. S., Kim, S., Puria, S., Yang, Y. P.
2017; 23 (9-10): 436-444
- **Functional Outcomes of Heparin Binding - Epidermal Growth Factor Like Growth Factor for Regeneration of Chronic Tympanic Membrane Perforations in Mice.** *Tissue engineering. Part A*
Santa Maria, P. L., Gottlieb, P., Santa Maria, C., Puria, S., Kim, S., Yang, Y. P.
2017
- **Single Administration of a Sustained-Release Formulation of KB-R7785 Inhibits Tympanic Membrane Regeneration in an Animal Model** *JOURNAL OF INTERNATIONAL ADVANCED OTOLOGY*
Maria, P. L., Maria, C. S., Kim, S., Yang, Y. P.
2016; 12 (3): 237-240
- **Engineering a Dual-Layer Chitosan-Lactide Hydrogel To Create Endothelial Cell Aggregate-Induced Microvascular Networks In Vitro and Increase Blood Perfusion In Vivo** *ACS APPLIED MATERIALS & INTERFACES*
Kim, S., Kawai, T., Wang, D., Yang, Y.
2016; 8 (30): 19245-19255
- **In Response to the Letter to the Editor Regarding: Heparin Binding-Epidermal Growth Factor-Like Growth Factor for the Regeneration of Chronic Tympanic Membrane Perforations in Mice.** *Tissue engineering. Part A*
Santa Maria, P. L., Kim, S., Varsak, Y. K., Yang, Y. P.

2016; 22 (5-6): 570-571

- **Heparin Binding Epidermal Growth Factor-Like Growth Factor Heals Chronic Tympanic Membrane Perforations With Advantage Over Fibroblast Growth Factor 2 and Epidermal Growth Factor in an Animal Model** *OTOLOGY & NEUROTOLOGY*
Maria, P. L., Weierich, K., Kim, S., Yang, Y. P.
2015; 36 (7): 1279-1283
- **Heparin Binding-Epidermal Growth Factor-Like Growth Factor for the Regeneration of Chronic Tympanic Membrane Perforations in Mice** *TISSUE ENGINEERING PART A*
Maria, P. L., Kim, S., Varsak, Y. K., Yang, Y. P.
2015; 21 (9-10): 1483-1494
- **Novel osteoinductive photo-cross-linkable chitosan-lactide-fibrinogen hydrogels enhance bone regeneration in critical size segmental bone defects** *ACTA BIOMATERIALIA*
Kim, S., Bedigrew, K., Guda, T., Maloney, W. J., Park, S., Wenke, J. C., Yang, Y. P.
2014; 10 (12): 5021-5033
- **Novel osteoinductive photo-cross-linkable chitosan-lactide-fibrinogen hydrogels enhance bone regeneration in critical size segmental bone defects.** *Acta biomaterialia*
Kim, S., Bedigrew, K., Guda, T., Maloney, W. J., Park, S., Wenke, J. C., Yang, Y. P.
2014; 10 (12): 5021-5033
- **In vitro evaluation of photo-crosslinkable chitosan-lactide hydrogels for bone tissue engineering** *JOURNAL OF BIOMEDICAL MATERIALS RESEARCH PART B-APPLIED BIOMATERIALS*
Kim, S., Kang, Y., Mercado-Pagan, A. E., Maloney, W. J., Yang, Y.
2014; 102 (7): 1393-1406
- **Osteogenic and angiogenic potentials of monocultured and co-cultured human-bone-marrow-derived mesenchymal stem cells and human-umbilical-vein endothelial cells on three-dimensional porous beta-tricalcium phosphate scaffold** *ACTA BIOMATERIALIA*
Kang, Y., Kim, S., Fahrenholtz, M., Khademhosseini, A., Yang, Y.
2013; 9 (1): 4906-4915
- **The osteogenic differentiation of human bone marrow MSCs on HUVEC-derived ECM and beta-TCP scaffold** *BIOMATERIALS*
Kang, Y., Kim, S., Bishop, J., Khademhosseini, A., Yang, Y.
2012; 33 (29): 6998-7007
- **Sequential delivery of BMP-2 and IGF-1 using a chitosan gel with gelatin microspheres enhances early osteoblastic differentiation** *ACTA BIOMATERIALIA*
Kim, S., Kang, Y., Krueger, C. A., Sen, M., Holcomb, J. B., Chen, D., Wenke, J. C., Yang, Y.
2012; 8 (5): 1768-1777