Stanford

Danial Barati

Postdoctoral Scholar, Orthopedic Surgery

NIH Biosketch available Online

Bio

BIO

A Ph.D. in Chemical/Biomedical Engineering with 10+ years' research experience. Expert in biomaterials, stem cells, drug delivery systems, in vivo animal study, novel bioinstrumentation, microscopy, and carrying out experimental research. Equipped with a solid academic background in basic principles of chemical engineering and programming with Python. Strong communication, team working, critical thinking and negotiation skills.

Specialties:

• Developing biomaterials scaffolds and drug delivery systems for tissue engineering and regenerative medicine.

• Performing animal surgery to set up in vivo models.

• Performing in vitro cell culture (i.e. mesenchymal stem cells, endothelial cells, etc.) and cell study in 3D models .

• Technical project leadership.

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of South Carolina , Chemical/Biomedical Engineering (2016)
- Master of Science, University of South Carolina , Chemical/Biomedical Engineering (2013)
- Bachelor of Science, University Of Tehran , Chemical Engineering (2009)

Publications

PUBLICATIONS

- **Nanoparticle-Mediated TGF-beta Release from Microribbon-Based Hydrogels Accelerates Stem Cell-Based Cartilage Formation In Vivo.** *Annals of biomedical engineering*
  Barati, D., Gegg, C., Yang, F.
  2020
- **Injectable and Crosslinkable PLGA-Based Microribbons as 3D Macroporous Stem Cell Niche.** *Small (Weinheim an der Bergstrasse, Germany)*
  Barati, D., Watkins, K., Wang, Z., Yang, F.
  2020: e1905820
- **IL-4 Overexpressing Mesenchymal Stem Cells within Gelatin-Based Microribbon Hydrogels Enhance Bone Healing in a Murine Long Bone Critical-size Defect Model.** *Journal of biomedical materials research. Part A*
  Ueno, M. n., Lo, C. W., Barati, D. n., Conrad, B. n., Lin, T. n., Kohno, Y. n., Utsunomiya, T. n., Zhang, N. n., Maruyama, M. n., Rhee, C. n., Huang, E. n., Romero-Lopez, M. n., Tong, et al
  2020