Microfabricated Biomaterials for Tissue Regeneration

Research emphasis:
Dr. Su’s research focuses on the design and microfabrication of biofunctional materials for regenerative medicine. His current specific areas of interest include the microfabrication of hydrogel biomimetic microvessels using microfluidic technique, engineering vascularized tissue constructs for cardiac tissue regeneration, and stimuli-responsive therapeutic cargo delivery system.

Applications:
- Tissue regeneration
- Bioscaffolds
- Stem cell therapy
- Drug delivery

Research Strengths:
- Microfluidic fabrication
- Polymer synthesis and characterization
- Nanoparticle synthesis and modification
- Cell biology
- Enzyme chemistry

Selected publications:


