Dr. Huan (Sharon) Wang gained her PhD in 2013 from University of Colorado at Boulder under the co-mentorship of Dr. Kristi Anseth and Dr. Leslie Leinwand. During that time, Dr. Wang has integrated the two disciplines of molecular biology and biomaterial engineering and published several papers related to cardiac valve tissue engineering and cellular signaling. Currently, Dr. Wang is a postdoctoral research associate working for Dr. Peter Sorger and Laboratory of Systems Pharmacology at Harvard Medical School. For her postdoc research, she hopes to apply systems and quantitative biology approaches in understanding the mechanisms of cardiotoxicity towards the goal of assessing and developing safe drugs for patients.

**PUBLICATIONS**

1. **Wang H**, Tibbitt MW, Langer SJ, Leinwand LA and Anseth KS. Hydrogels preserve inactivated fibroblast phenotype of valvular interstitial cells through an elasticity-regulated PI3K/AKT pathway. *Proceedings of the National Academy of Sciences USA,* 110 (48): 19336-19341 (2013)*.*
2. **Wang H**, Haeger SM, Kloxin AK, Leinwand LA and Anseth KS. Redirecting valvular myofibroblasts into dormant fibroblasts through light-mediated reduction in substrate modulus. *PLoS ONE* 7(7):e39969 (2012).
3. **Wang H**, Sridhar B, Leinwand LA, Anseth KS. Characterization of cell subpopulations expressing progenitor cell markers in porcine cardiac valves. *PLoS ONE* 8(7): e69667 (2013).
4. **Wang H**, Leinwand LA and Anseth KS. Roles of TGF-β1 and OB-cadherin in cardiac valve myofibroblast differentiation, *The FASEB Journal, accepted*.
5. **Wang H**, Leinwand LA and Anseth KS. The cell and their matrix microenvironment in cardiac valves. *Nature Reviews Cardiology, Accepted and in production.*
6. Chapnick DA, Bunker E, **Wang H**, Jacobsen J, Ahn N, Anseth KS and Liu X. TGF-β and cellular mechanosensing shape activation of TACE to govern spatially constrained MAPK and motility. *Submitted*.