Jeongmin Hwang

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Education	University of Delaware Doctor of Philosophy, Biomedical Engineering	08/2017-
	University of Utah Master of Science, Bioengineering Thesis Advisor: Dr. S. Michael Yu GPA: 3.6/4.0	08/2015- 12/2016
	University of Utah/ Southern Utah University Bachelor of Science, Chemistry GPA: 3.8/4.0	01/2009- 05/2013
Teaching Experience	Teaching Assistant University of Utah Department of chemistry Advanced organic chemistry Lab. Advanced inorganic chemistry Lab. General Chemistry II Lab.	08/2013- 04/2014
Research Experience	 Graduate Research Assistant University of Delaware Advisors: Dr. Kristi Kiick Department of Materials Science and Engineering, Dr. Millicent Sullivan Department of chemical and biomolecular engineering. Extracellular matrix triggered gene delivery for chronic wound healing 	11/2017-
	Biosurgery R&D Intern Ethicon, Inc. Supervisor: Dr. Allen Wang • Investigation of Hemostatic materials.	06/2017- 08/2017
	Research Associate 3Helix Inc. Supervisor & CEO: Dr. Yang Li	01/2017- 05/2017
	 Technician Intern 3Helix Inc. Supervisor & CEO: Dr. Yang Li Application of collagen hybridizing peptides as biomarker for denatured collagen into different types of disease tissue models. 	05/2015- 12/2016
	 Graduate Research Assistant University of Utah Advisor: Dr. S. Michael Yu Department of bioengineering Develop collagen hybridizing peptides to prevent self- trimerization and improve binding affinity to denatured 	06/2014- 12/2016

	 collagen. Solid phase synthesis of (GlyProFlp)n library Antiparallel beta sheet assembly of collagen hybridizing peptides Molecular assessment of collagen denaturation in decellularized tissues using a collagen hybridizing peptide Functionalization of decellularized lung to improve vasculature Supervised undergraduate students (Cameron Leiser, Thomas Luo, Anh Pham, David Ho, Courtney Rice, Danielle Pompa) for their senior project. 	
	Graduate student for rotating Lab University of Utah Advisor: Amy M. Barrios Department of medicinal chemistry • Probing substrate specificity of protein tyrosine phosphatases	03/2014- 04/2014
	 Undergraduate Researcher University of Utah Advisor: Thomas Richmond Department of chemistry Activation of carbon-fluorine bonds using perflurodecaline with cobaltocene. 	09/2012- 04/2013
Publications	 Hwang J, San BH, Turner NJ, White LJ, Faulk DM, Badylak SF, Li Y, Yu SM, Molecular Assessment of Collagen Denaturation in Decellularized Tissue using Collagen Hybridizing Peptide, Acta Biomaterialia, 2017 Hwang J, Huang Y, Burwell TJ, Peterson NC, Connor J, Weiss SJ, Yu SM, Li Y, In situ Imaging of Tissue Remodeling with Collagen Hybridizing Peptides, ACS Nano, 2017 San BH, Hwang J, Sampath S, Li Y, Yu SM, Self-assembled water- soluble nanofibers displaying collagen hybridizing peptides, JACS, 2017 	
Conference Presentations	• Hwang J, San BH, Turner NJ, White LJ, Faulk DM, Badylak SF, Li Y, Yu SM, Molecular Assessment of Collagen Denaturation in Decellularized Tissue using Collagen Hybridizing Peptide, Poster presentation: Convergence Technology Symposium at UKC; Dallas, Texas	08/2016
Laboratory Skills	Chemistry Solution/Solid phase peptide synthesis, Synthesis of organic and organometallic molecules, Bioconjugation reaction, Immunohistochemistry CD, FT-IR, GC, HPLC, MALDI-TOF, NMR, TLC, UV spectroscopy, Wet-column chromatography Biology ELISA, Molecular detection, Tissue imaging Light/confocal Microscopy, Multi-photon Microscopy	
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Awards & Honors	Mack Thomas Rozelle Scholarship Department of chemistry University of Utah	04/2012
	2017 Biomedical Engineering Chair's Fellowship Department of Biomedical Engineering University of Delaware	08/2017
Professional Membership	 Golden Key Korean-American Scientists and Engineers Association Committee member in Utah chapter 	09/2009- 02/2014- 05/2017
Volunteer Experience	The 17 th Daegu OPEN International Wheelchair Tennis Tournament Interpreter for Thai and British athletes	06/2013
	The 16 th Daegu-cup International Wheelchair Basketball Tournament Translation of mayor's cover letter from Korean to English	07/2013
	Dr. Michael Yu's lab in Bioengineering department in University of Utah Research Assistant	06/2014- 07/2015