

Eun Ji Chung, Ph.D.

University of Southern California
Department of Biomedical Engineering
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EDUCATION

- 2007—2011** **Ph.D. Biomedical Engineering**
Northwestern University, Evanston, IL
- 2002—2006** **B.A. Honors in Molecular Biology**
Scripps College, Claremont, CA

ACADEMIC POSITIONS

- 2016—present** **Assistant Professor**
University of Southern California
Department of Biomedical Engineering
WISE Gabilan Assistant Professorship
Courtesy PI: USC Stem Cells
Associate Member: USC Norris Comprehensive Cancer Center
- 2012—2016** **Research Associate/Postdoctoral Fellow**
University of Chicago
Institute for Molecular Engineering
- 2011—2012** **Postdoctoral Fellow**
Northwestern University
Simpson Query Institute
Dept. of Materials Science and Engineering

PUBLICATIONS **Graduate student #Postdoctoral researcher ^Undergraduate student* Corresponding author

- 28.** Zavaleta, C., Ho, D., **Chung, E.J.** Theranostic nanoparticles for tracking and monitoring disease state. SLAS Technology: In press (2017).
- 27.** Poon, C.#, Chowdhuri, S.^, Kuo, C.H., Fang, Y., Alenghat, F., Hyatt, D., Kani, K., Gross, M., **Chung, E.J.** Protein mimetic properties of monocyte-targeting peptide amphiphile micelles. ACS Biomaterials Science and Engineering: In press (2017).
- 26.** Poon, C.#, Sarkar, M.^, **Chung, E.J.** Monocyte-targeting peptide amphiphile micelles for atherosclerosis. JoVE: In press (2017).
- 25.** Wang, J.*, Masehi-Lano, J.J.*, **Chung, E.J.** Peptide and antibody ligands for renal targeting: Nanomedicine strategies for kidney disease. Biomaterials Science, 5(8): 1450-1459 (2017).
- 24.** Khodabandehlou, K.#, Masehi-Lano, J. J.*, Poon, C.#, Wang, J.*, **Chung, E.J.** Targeting cell adhesion molecules with nanoparticles using in vivo and flow-based in vitro models of atherosclerosis. Experimental Biology and Medicine, 242(8): 799-812 (2017).
- 23.** Marciel, A.B., **Chung, E.J.**, Brettmann, B.K. Leon, L. Bulk and Nanoscale polypeptide based polyelectrolyte complexes. Adv. Colloid and Interface Science, 239: 187-198 (2017).

- 22. Chung, E.J.,** Sugimoto, M., Koh, J., Ameer, G.A. A biodegradable tri-component graft for anterior cruciate ligament reconstruction. *JTERM*, 11(3): 704-712 (2017).
- 21. Chung, E.J.** Targeting and therapeutic peptides in nanomedicine for atherosclerosis. *Experimental Biology and Medicine*, 241(9): 891-898 (2016).
- 20. Yoo, S. P.,** Pineda, F., Barrett, J.C., Poon, C.#, Tirrell, M., **Chung, E.J.** Gadolinium-functionalized peptide amphiphile micelles for multimodal imaging of atherosclerotic lesions. *ACS Omega*, 1(5): 996-1003 (2016).
- 19. Chung, E.J.,** Tirrell, M. Recent advances in targeted, self-assembling nanoparticles to address vascular damage due to atherosclerosis. Cover of *Advanced Healthcare Materials*, 4(16):2408-2422 (2015).
- 18. Acar, H.,** Srivastava, S., **Chung, E.J.,** Schnorenberg, M.R., Barrett, J.C., LaBelle, J.L., Tirrell, M. Self-assembling peptide-based building blocks in medical applications. *Adv. Drug Delivery Rev.*: In press (2016).
- 17. Black, K.,** Lin, B., Wonder, E., Desai, S., **Chung, E.J.,** Ulery, B., Katari, R., Tirrell, M.V. Biocompatibility and optimization of a peptide amphiphile hydrogel for peripheral nerve tissue regeneration. *Tissue Engineering* 21(7-8): 1333-1342 (2015).
- 16. Chung, E.J.,** Mlinar, L.B., Sugimoto, M.J., Nord, K., Roman, B.B., Tirrell, M.V. In vivo biodistribution and clearance of peptide amphiphile micelles. *Nanomedicine* 11(2): 479-487 (2015).
- 15. Chung, E.J.,** Mlinar, L.B., Nord, K., Sugimoto, M., Wonder, E., Alenghat, F., Fang, Y., Tirrell, M.V. Monocyte-targeting supramolecular micellar assemblies: A molecular diagnostic tool for atherosclerosis. Cover of *Advanced Healthcare Materials* 4(3): 323-475 (2015).
- 14. Chung, E.J.,** Pineda, F., Karczmar, G., Lee, S.K., Tirrell, M. Fibrin-targeting, peptide amphiphile micelles as contrast agents for molecular MRI. *Journal of Cell Science and Therapy* 5(5): 1000181 (2014).
- 13. Kuo, C-H.,** Leon, L.F., **Chung, E.J.,** Sontag, T.J., Reardon, C.A., Getz, G.S., Tirrell, M., Fang, Y. Inhibition of atherosclerosis-promoting microRNAs via targeted polyelectrolyte complex micelles. Cover of *Journal of Materials Chemistry B* 2(46): 8142-8153 (2014).
- 12. Mlinar, L.B.,** **Chung, E.J.,** Wonder, E., Tirrell, M. Active targeting of early and mid-stage atherosclerotic plaques using self-assembled peptide amphiphile micelles. *Biomaterials* 35(30): 8678-86 (2014).
- 11. Chung, E. J.,** Cheng, Y., Morshed, R., Nord, K., Han, Y., Wegscheid, M., Auffinger, B., Wainwright, D.A., Lesniak, M.S., Tirrell, M.V. Peptide amphiphile micelles for targeting glioblastomas. *Biomaterials* 35(4): 1249-1256 (2014).
- 10. Chien, K.B.,** **Chung, E.J.,** and Shah, R.N. Investigation of soy protein hydrogels for biomedical applications: Materials characterization, drug release, and biocompatibility. *Journal of Biomaterials Applications* 28(7): 1085-1096 (2014).
- 9. Chung, E.J.,** Chien, K.B., Aguado, B.A., and Shah, R.N. Osteogenic potential of BMP-2-releasing self-assembled membranes. *Tissue Engineering Part A* 19(23-24): 2664-2673 (2013).
- 8. Chung, E.J.,** Jakus, A.E., and Shah, R.N. In situ forming collagen-hyaluronic acid membrane structures: Mechanism of self-assembly and applications in regenerative medicine. *Acta Biomater.* 9(2): 5153-61 (2013).
- 7. Chung, E.J.,** Sugimoto, M., Koh, J., Ameer, G.A. Low pressure foaming: A novel method for the fabrication of porous scaffolds for tissue engineering. Cover of *Tissue Engin. Part C* 18(2): 113-121 (2012).
- 6. Chung, E.J.,** Sugimoto, M., Ameer, G.A. The role of hydroxyapatite in citric acid-based nanocomposites: Surface characteristic, degradation, and osteogenicity. *Acta Biomaterialia* 7(11): 4057-4063 (2011).
- 5. Chung, E.J.,** Kodali, P., Yang, S., Laskin, W., Koh, J., Ameer, GA. Long-term in vivo response to citric acid-based nanocomposites for orthopaedic tissue engineering. *Journal of Materials Science: Materials in Medicine* 22(9): 2131-2138 (2011).
- 4. Chung, E.J.,** Qiu, H.J., Kodali, P., Yang, S., Hwang, J., Koh, J., Ameer, G.A. Early tissue response to citric acid-based micro- and nanocomposites. *JBMR Part A* 96A(1): 29-37 (2011).
- 3. Wang, J.,** Singh, C., Liu, L., Irwin, R., Chen, S., **Chung, E.J.,** Thompson, R., Brinton, R. Allopregnanolone reverses neurogenic and cognitive deficits in mouse model of Alzheimer's disease. *PNAS* 107(14): 6498-6503 (2010).

2. Serrano, M.C., **Chung, E.J.**, Ameer, G.A. Advances and applications of biodegradable elastomers in regenerative medicine. *Advanced Functional Materials* 20(2): 192-208 (2010).

1. Lee, S.Y., Kim, T.Y., Lee, M.S., Kim, Y.B., **Chung, E.J.**, Lee, J.W. Focal adhesion and actin organization by a cross-talk of TM4SF5 with integrin alpha2 are regulated by serum treatment. *Experimental Cell Research* 312(16): 2983-2999 (2006).

BOOK CHAPTERS

3. Masehi-Lano, J.J.* and **Chung, E.J.** Engineering citric-acid based porous scaffolds for bone regeneration, *Methods in Molecular Biology, Biomaterials for Tissue Engineering: Methods and Protocol*, (In press).

2. **Chung, E.J.**, Leon, L., Hunt, K., Tirrell, M. Peptide amphiphile micelles from structure to function, *Handbook of lipid membranes: Molecular, functional, and materials aspects* (2016).

1. **Chung, E.J.**, Shah, N., and Shah, R.N. Chapter 13: Nanomaterials for cartilage regeneration, *Nanomaterials in tissue engineering: Characterization, fabrication and applications* (2013).

OTHER PUBLICATIONS

15. **Chung, E.J.** Viterbi Voices. "Nanomedicine, Tissue Engineering and Biomaterials Research" podcast (Nov. 22, 2017).

14. **Chung, E.J.** Globalgirl Media podcast (July 2017) <http://globalgirlmedia.org/city/los-angeles/w-o-c-i-t-dr-eun-ji-chung/>.

13. **Chung, E.J.** NextGen Voices. *Science* 352(6288): online issue (May 20, 2016).

12. **Chung, E. J.** March Scientist of the Month: Sharon Feng. Association of Women in Science, Chicago (2014).

11. **Chung, E.J.** CRILabs, Inc. "Nanomedicine" podcast (2013).

10. **Chung, E.J.** NextGen Voices. *Science* 342(6154): online issue (Oct. 4, 2013).

9. **Chung, E.J.** January Scientist of the Month: Christine McCary. Association of Women in Science (AWIS), Chicago (2013).

8. **Chung, E.J.** November Scientist of the Month: Chinonye Nnakwe. AWIS, Chicago (2012).

7. **Chung, E.J.** January Scientist of the Month: Tracy Gluckman. AWIS, Chicago (2012).

6. **Chung, E.J.** and **Ameer, G.A.** Twenty (or more) things you might not know about nanotechnology. *Northwestern University, Office for Research, CenterPiece* 11(1): 3 (2011).

5. **Chung, E.J.** October Scientist of the Month: Ramille N. Shah. AWIS, Chicago (2011).

4. **Chung, E.J.** March Scientist of the Month: Louise Giam. AWIS, Chicago (2011).

3. **Chung, E.J.** November 200 Scientist of the Month: Sacha Patera. AWIS, Chicago (2010).

2. **Chung, E.J.** July Scientist of the Month: Deborah Quock. AWIS, Chicago (2010).

1. **Chung, E.J.** April Scientist of the Month: Guillermo A. Ameer. AWIS, Chicago

AWARDS AND HONORS

16. Young Innovator Award in Nanobiotechnology, Nano Research, 2018

15. SLAS Reviewer Excellence Award, 2018

14. BMES Career Development Award, 2017

13. American Institute for Chemical Engineers, 35 Under 35, 2017

12. Emerging Investigator Issue of the journal *Biomaterials Science*, 2017

11. Tony B. Academic Travel Award, SLAS Annual Conference, Washington, DC, Feb. 2017

10. Young Investigator Session at IEEE, Micro and Nanotechnology in Medicine Conference, Dec. 2016

9. Gabilan Assistant Professorship, Women in Science and Engineering, 2016-2021

8. NIH K99/R00 Pathway to Independence, National Lung, Heart, and Blood Institute, May 2015-present

7. Chicago Biomedical Consortium Postdoctoral Research Grant, July 2014-Dec. 2015
6. American Heart Association Postdoctoral Fellowship, July 2012-July 2014
5. Simpson Query Institute-Baxter Early Career Award, Sept. 2011-July 2012
4. Certificate for Management for Scientists and Engineers, Kellogg School of Management, Northwestern University, Aug. 2010
3. Semi-finalist, Venture Challenge, Northwestern University, April 2010
2. Travel Award, Interdisciplinary Biological Sciences, Northwestern University, March 2009, April 2010, Nov. 2010
1. Travel Award, The Graduate School, Northwestern University, Oct. 2008, March 2009

INVITED PRESENTATIONS

16. Targeting peptides for nanomedicine. Biology and Chemistry of Peptides. Gordon Research Conference, Ventura, CA, February 11-16, 2018
15. Molecular engineering for theranostic applications. University of Southern California, Dept. of Medicine, Division of Nephrology, Kidney Disease Research Team Seminar Series, Dec. 5, 2017
14. Molecular engineering for regenerative medicine theranostic applications. University of Southern California, Dept. of Chemical Engineering, Nov. 30, 2017
13. Toward theranostic peptide amphiphile micelles. 9th International Conference on Materials for Advanced Technologies (ICMAT), Materials Research Society, Singapore, June 19-23, 2017
12. Nanomedicine for atherosclerosis. 3rd Biennial Los Angeles Cardiovascular Symposium. Cedars Sinai, Los Angeles, CA, May 15, 2017
11. Biomaterials-based design for targeting imaging and therapy. USC BRIDGE Faculty Luncheon Seminar Series, May 3, 2017
10. Peptide amphiphile micelles for targeting glioblastoma. Society for Brain Mapping and Therapeutics. Los Angeles, CA, April 18-20, 2017
9. Designer micelles for molecular (thera) diagnostics. Young Investigator Session, MNMC, IEEE EMBS, Waikoloa, HI, Dec. 12-16, 2016
8. Targeting atherosclerosis using supramolecular micellar assemblies. Nanotechnology in Medicine, Engineering Conferences International, Hernstein, Austria, July 4, 2016
7. Molecular engineering for theranostics. UC Riverside, Dept. of Bioengineering, May 11, 2016
6. Biomaterials design for tissue regeneration and theranostic applications. University of Southern California, Stem Cell, May 10, 2016
5. Self-assembled nanoparticles for medicine. Pint of Science, Prairie Moon, Evanston, IL. May 19, 2015
4. Molecular engineering for regenerative medicine and theranostic applications. Johns Hopkins, Dept. of Materials Science, March 16, 2015
3. Molecular engineering for regenerative medicine and theranostic applications. University of Southern California, Dept. of Biomedical Engineering, Feb. 27, 2015
2. Molecular engineering for regenerative medicine and theranostic applications. Washington University in St. Louis, Dept. of Biomedical Engineering, Feb. 12, 2015
1. Molecular engineering for regenerative medicine and theranostic applications. Case Western Reserve University, Dept. of Chemical and Biomolecular Engineering, Dec. 11, 2015

CONTRIBUTED MEETING PRESENTATIONS (presenting author italicized)

38. *Bharadwaj, P.*[^], *Khodabandhelou, K.*[#], *Luhar, M.*, and **Chung, E.J.** In vitro vascular model for atherosclerosis. BMES, Phoenix, AZ, October 11-14, 2017 (poster)

- 37.** Wang, J.* and **Chung, E.J.** Oral delivery of therapeutic peptide amphiphiles for polycystic kidney disease. Grodins Graduate Research Symposium, Los Angeles, CA, April 14, 2017 (poster)
- 36.** Poon, C.#, Sarkar, M.^, **Chung, E.J.** Multifunctional peptide micelle for monocyte targeting and gene therapy to reduce atherosclerosis. Society for Biomaterials, Minneapolis, MN, April 4-8, 2017 (podium)
- 35.** **Chung, E.J.** Targeting stage-specific disease markers using supramolecular micellar assemblies. Society for Laboratory Automation and Screening Conference, Washington, DC, Feb. 4-8, 2017 (poster)
- 34.** Poon, C.#, Park, D.Y., **Chung, E.J.** Designer micelles for molecular diagnostics. MNMC, IEEE EMBS, Waikoloa, HI, Dec. 12-16, 2016 (poster)
- 33.** Yoo, S.P. Tirrell, M., **Chung, E.J.** The design of micelles for molecular diagnostics. AIChE, San Francisco, CA, Nov. 13-18, 2016. (podium)
- 32.** Yoo, S.P., Tirrell, M., **Chung, E.J.** Imaging and targeting efficacy of nanoparticles for atherosclerosis with varying gadolinium chelators. Biomedical Engineering Society (BMES), Minneapolis, MN, Oct 5-8, 2016. (podium)
- 31.** **Chung, E.J.**, Yoo, S.P., Tirrell, M. The design of gadolinium containing peptide amphiphile micelles for molecular MRI. World Biomaterials Congress, Montreal, Canada, May 17-22, 2016. (poster)
- 30.** **Chung, E.J.**, Yoo, S.P., Tirrell, M. Peptide amphiphile micelles as contrast agents for molecular MRI. Materials Research Society, Boston, MA, Nov. 29-Dec. 4, 2015. (podium)
- 29.** **Chung, E.J.**, Mlinar, L.B., Nord, K., Tirrell, M. Peptide amphiphile micelle-mediated molecular imaging of cardiovascular disease. Biomedical Engineering Society, Tampa, FL. Oct. 7-10, 2015. (poster)
- 28.** Wu, C.Q., Huang, R.T., Leon, L., **Chung, E.J.**, Reardon, C., Tirrell, M., Fang, Y. Modulation of miR92a-PPAP2B signaling axis in athero-susceptible endothelia employing targeting polyelectrolyte complex nanoparticles. AHA Chicago Research Network Symposium, Chicago, IL. Sept. 18, 2015.
- 27.** Yoo, S.P., **Chung, E.J.**, Castle, C., Tirrell, M. Investigation of Micelle Shape on Monocyte Targeting. American Heart Association Chicago Research Network Symposium, Chicago, IL. Sept. 18, 2015.
- 26.** **Chung, E.J.**, Mlinar, L.B., Nord, K., Tirrell, M. Theranostic peptide amphiphile micelles for atherosclerosis. K to RO1 Meeting, NHLBI, NIH, Bethesda, MD. July 28-29, 2015.
- 25.** **Chung, E.J.**, Mlinar, L.B., Nord, K., Tirrell, M. Theranostic peptide amphiphile micelles for atherosclerosis. Biomaterials and Tissue Eng, Gordon Research Conference, Girona, Spain. July 18-24, 2015.
- 24.** **Chung, E.J.**, Mlinar, L.B., Nord, K., Tirrell, M. Supramolecular micellar assemblies for molecular targeting of cardiovascular disease and cancer. AIChE, Atlanta, GA. Nov. 16-21, 2014.
- 23.** **Chung, E.J.**, Drews, L.B., Nord, K., Tirrell, M. Biomimetic, monocyte-targeting supramolecular micellar assemblies for atherosclerosis theranostics. Biomedical Engin Society, San Antonio, TX. Oct. 22-25, 2014.
- 22.** Hyatt, D., **Chung, E.J.**, Tirrell, M., Alenghat, F.J. Monocyte and macrophage-directed peptide amphiphile micelles modulate cytoskeletal organization and target atherosclerosis. American Heart Association, Scientific Sessions, Chicago, IL. Nov. 15-19, 2014.
- 21.** **Chung, E.J.** and Tirrell, M. Multimodal peptide amphiphile micelles for atherosclerosis. Chicago Biomedical Consortium Tech Day, Chicago, IL. June 16, 2014.
- 20.** **Chung, E.J.**, Mlinar, L.B., Nord, K., Sugimoto, M.J., Wonder, E., Zhang, C., Kuo, C.H., Andrade, J., Fang, Y., Huang, L., Alenghat, A.J., Tirrell, M. Peptide amphiphile micelles for the early detection atherosclerotic plaques. Arnsdorf Cardiovascular Research Day, Chicago, IL. April 25, 2014.
- 19.** **Chung, E.J.**, Cheng, Y., Morshed, R., Nord, K., Han, Y., Wegscheid, M., Wainwright, D., Lesniak, M.S., Tirrell, M. Fibrin-binding, peptide amphiphile micelles for targeting glioblastoma. Society for Biomaterials, Denver, CO. April 16-19, 2014.
- 18.** **Chung, E.J.**, Drews, L.B., Tirrell, M. The design of peptide amphiphile micelles for diagnostic applications in atherosclerosis. AIChE, San Francisco, CA. Nov. 3-8, 2013.

17. **Drews, L.B., Chung, E.J., Wonder, E., Tirrell, M.** Investigation of self-assembled peptide amphiphile micelles for targeting early stage atherosclerotic plaques. American Institute for Chemical Engineers, San Francisco, CA. Nov. 3-8, 2013.
16. **Chung, E.J., Drews, L.B., Tirrell, M.** Peptide amphiphile micelles for early detection of vulnerable atherosclerotic plaques. AHA Chicago Res Network Symposium, Chicago, IL. Sept. 20, 2013.
15. **Tirrell, M., Chung, E.J., Ulery, B., Leon, L., Kade, M.J.** Protein analogous micelles: Versatile, modular nanoparticles. American Chemical Society, Indianapolis, IN. Sept. 8-12, 2013.
14. **Chung, E.J., Drews, L.B., Tirrell, M.** The investigation of peptide amphiphile micelles for detection of vulnerable atherosclerotic plaques. AHA Basic Cardiovasc Sci, Las Vegas, NV. July 22-25, 2013.
13. **Chung, E.J., Drews, L.B., Tirrell, M.** Monocyte-targeting, peptide amphiphile micelles for the early detection of plaques in atherosclerosis. Arnsdorf Cardiovascular Research Day, Chicago, IL. May 31, 2013.
12. **Chung, E.J., Drews, L.B., and Tirrell, M.** Monocyte-targeting, peptide micelles for the early detection of plaques in atherosclerosis. Materials Research Society, San Francisco, CA. April 1-5, 2013.
11. **Drews, L.B., Chung, E.J., Tirrell, M.** Targeting early stage atherosclerotic plaques using multi-component self-assembled peptide amphiphile micelles. MRS, San Francisco, CA. April 1-5, 2013.
10. **Chung, E.J. and Shah, R.N.** Self-assembling, collagen-hyaluronic acid membranes. Bioinspired Materials, Gordon Research Conference, Davidson, NC. June 24-29, 2012.
9. **Chung, E.J., Sugimoto, M., Koh, J., and Ameer, G.A.** Investigation of a tri-component biodegradable scaffold for ACL tissue engineering. Orthopaedic Research Society, Long Beach, CA. Jan. 13-16, 2011.
8. **Chung, E.J. and Ameer, G.A.** Biomimetic citric acid-based nanocomposites for orthopaedic tissue engineering. International Conference of Composites/Nano Engineering, Anchorage, AK. July 4-10, 2010.
7. **Chung, E.J. and Ameer, G.A.** Investigation of citric acid-based calcium phosphate nanocomposites as an osteogenic biomaterial. Orthopaedic Research Society, New Orleans, LA. March 6-9, 2010.
6. **Chung, E.J. and Ameer, G.A.** Orthopaedic nanocomposites based on citric acid and calcium phosphates. TERMIS World Congress, Seoul, South Korea. Aug. 31-Sept. 3, 2009.
5. **Chung, E.J., Qiu, H., Ameer, G.A.** Tissue response to citric acid-based micro-/nanocomposites. Orthopaedic Research Society, Las Vegas, NV. Feb. 22-25, 2009.
4. **Chung, E.J. and Ameer, G.A.** Biocomposite screws based on citric acid and hydroxyapatite. InNUvention Applied Research Day, Evanston, IL. 2009.
3. **Chung, E.J., Qiu, H., Kodali, P., Koh, J., Ameer, G.A.** Mechanical property and biocompatibility of poly(diols citrate) micro- and nano-composites for bone tissue engineering. Society of Engineering Sciences, Urbana-Champaign, IL. Oct. 12-15, 2008.
2. **Chung, E.J., Zou, C., and Gao, Q.** Centrobin, a potential therapeutic for cancer. InNUvention Applied Research Day, Evanston, IL. 2009.
1. **Chung, E.J. and Wiley, E.** Searching for the role of a class II histone deacetylase in *T. Thermophila*. Chapter Sigma Xi, Claremont, CA. 2005.

TEACHING

Instructor, BME 459 Course: Nanomedicine and Drug Delivery, Dept. of Biomedical Engineering, USC, Spring 2018

Instructor, BME 599 Course: Nanomedicine and Drug Delivery, Dept. of Biomedical Engineering, USC, Fall 2016, 2017

Guest Lecturer, Course: Emerging Technologies, Inst for Molecular Engineering, Univ. of Chicago, Oct 2015

Guest Lecturer, Course: Cell and Molecular Biology for Engineers, Dept. of Chemical Engineering, Northwestern University, March 2015

Laboratory Practicum Instructor, Title: Collagen hydrogels for nerve regeneration, Parker High School, Chicago, IL, March-April 2014

Teaching Assistant, Upper Level Cell Biology, Dept. of Cell and Molecular Biology, Northwestern University, Sept.-Dec. 2010

Teaching and Laboratory Assistant, Introductory Cell Biology, Biological Sciences Program, Northwestern University, March-June 2010

Instructor, GMAT (Verbal), GRE (Writing), SAT (Verbal), The Princeton Review, May-Aug. 2007

Korean Foreign Language Teacher, Sycamore Elementary School, Claremont, CA, Aug.-Dec. 2003

RESEARCH SUPERVISION

Postdoctoral Fellows

Jihchao "Stanley" Yeh, Oct. 2017- (joint postdoc with Larissa Rodriguez)

Christopher Poon, Sept. 2016-

Khosrow Khodabandehlou, Dec. 2016-Oct. 2017

PhD Students

Deborah Chin, USC Biomedical Engineering, Aug. 2017-

Jonathan Wang, USC Biomedical Engineering, Aug. 2016-

Masters Students

Yi Huang, USC Chemical Engineering, Dec 2017-

Lekshmi Pillai, USC Biomedical Engineering, June-August 2017

Jacqueline Masehi-Lano, USC Stem Cells, July 2016-March 2017

Undergraduate Researchers

Kayley Cheng, USC Biomedical Engineering, Dec 2017-

Johan Joo, USC Biomedical Engineering, June 2017-

Timothy Chang, USC Biomedical Engineering, Aug. 2016-

Sampreeti Chowdhuri, USC Biomedical Engineering, Aug. 2016-

Manjima Sarkar, USC Biomedical Engineering, Aug. 2016-Oct. 2017

Sarah Milkowski, USC Biomedical Engineering, Jan. 2017-

Prajwal Bharadwaj, USC Biomedical Engineering, Aug. 2016-Aug. 2017

James "Trip" McComas, USC Biomedical Engineering, June 2017-Aug. 2017

Shivani Gupta, The College of New Jersey, Biomedical Engineering, June-August 2017

High School Students

Vivian Lu, SHINE student, June 2017-

Teachers

Riann Williams, Viterbi Adopt-a-School Adopt-a-Teacher (VAST), 32nd Street School, 6th grade science middle school teacher, July-August 2017

PROFESSIONAL SERVICE

Session Co-Chair, Area Plenary: Leaders in Biomaterials, AIChE, Pittsburgh, PA, October 2018

Session Chair, Peptides in Nanomedicine, IEEE Nano/Molecular Medicine and Engineering, Waikiki Beach, HI, Dec. 2018

Planning Committee, Women in Chemistry, American Institute of Chemical Engineers, Jan 2018-

Advisory Committee, Women in Nephrology, American Society for Nephrology, Oct. 2017-

Forum Reporter, Drug Delivery Special Interest Group, Society for Biomaterials, Nov. 2017-

Session Co-Chair, Area Plenary: Leaders in Biomaterials, AIChE, Minneapolis, MN, October 2017

Session Co-Chair, Organs-on-Chip Models, BMES, Phoenix, AZ, October 2017

Undergraduate Awards and Poster Reviewer, Biomedical Engineering Society (BMES), Phoenix, AZ, October 2017

Abstract Reviewer, Drug Delivery and Intelligent Systems, Biomedical Engineering Society (BMES), Phoenix, AZ, October 2017

Ad Hoc Editor, PNAS, July 2017

Session Chair, Supramolecular Biomaterials for Biomedical Applications, Society for Biomaterials, Minnesota, MN, April 6, 2017

Ad Hoc Panel Reviewer, Israel Science Foundation (ISF), 2017

Editorial Board, Society for Laboratory Automation and Screening (SLAS), 2017-present

Ad Hoc Panel Reviewer, NSF, 2017

Ad Hoc Panel Reviewer, NIH (NANO), 2017

Ad Hoc Panel Reviewer, American Heart Association, Bioengineering 2 Study Section, 2016-present

Session Chair, New Frontiers Symposium: Nanobiomaterials and Nanotechnology for Implants, Devices, and Theranostics, World Biomaterials Congress, Montreal, Canada, May 19th, 2016

Editorial Board, Experimental Biology and Medicine, 2016-present

Reviewer, PNAS, Advanced Drug Delivery Reviews, Scientific Reports, Adv Healthcare Materials, Tissue Engineering, Soft Matter, Small, Acta Biomaterialia, RSC Advances Life Sciences, Journal of Stem Cell Research & Therapy, Journal of Cell Research & Therapy, Experimental Biology and Medicine, Anti-Cancer Agents in Medicinal Chemistry, Journal of Biomedical Applications, ACS Biomaterials Science, Drug Discovery Today, Nanomaterials 2012-present

Editorial Board, Journal of Cell Science and Therapy, 2014-2015

Writer, Scientist of the Month Series, Association of Women in Science (AWIS), Chicago Chapter, Jan. 2010-2015

VP of Communications, Association of Women in Science (AWIS), Chicago, Oct. 2012-Sept. 2014

Exhibition Organizer, "The role of model organisms in understanding disease and development," Family Science Days, AAAS Annual Meeting, Chicago, IL, Feb. 2014

Judge, "Identifying revolutionary platform technologies for advancing life sciences research," Innocentive, White House Office of Science and Technology Policy (OSTP), Dec. 2013-Jan. 2014

Participant, NSF Materials Genome Initiative Regional Workshop, Boston, MA, Oct. 8th, 2013

Session Chair, Mineralized Tissues and Implants, Society of Engineering Science 2011 Annual Technical Conference, Evanston, IL, Oct. 12-14, 2011

Session Chair, International Conference of Composites/Nano Engin., Anchorage, AK, July 4-10, 2010

Writer, NIH Office of Research on Women's Health, Chicago, IL, Oct. 2009

UNIVERSITY SERVICE

Prospective Graduate Students lunch, USC Viterbi, Nov. 2017

Board of Councilors dinner, USC Viterbi, Nov. 2017

Faculty Search Committee, USC Biomedical Engineering, Systems Cellular-Molecular Bioengineering, 2017-2018

Faculty Representative, USC WiSE PhD Advisory Committee, 2017-

Faculty Panelist, USC Graduate and Professional Programs (GAPP), Applying to a PhD Program, July 2017

1st Year PhD Screening Exam, USC Biomedical Engineering, May 2017

Teaching Lab Design Committee, USC Biomedical Engineering, 2016-2017

Co-Organizer, Systems Cellular-Molecular Bioengineering Distinguished Seminar Speaker Series, 2016-2017

Faculty Representative and Lab Tours, USC Explore USC, Biomedical Engineering breakout session, April 2017

Faculty Panelist, University of Chicago, UChicagoGRAD, GRADUCon, STEM Faculty Panel, April 2017

Judge, USC Biomedical Engineering, Grodins Research Symposium, April 2017
Faculty Panelist, USC Career Center, Postdoc Panel, Beyond the PhD Conference, March 2017
PhD Admissions Committee, 2016-2017, 2017-2018
Judge, USC Alfred Mann Institute, End-of-Dissertation Award, Dec 2016
Faculty Advisor, USC Maseeh Entrepreneurship Prize Competition and Min Family Engineering Social Entrepreneurship Challenge
USC Viterbi PhD Council representative for Biomedical Engineering, 2016-2017, 2017-2018
USC Qualifying Exam Committee Member (2016-2017):
Hsiao-Chuan Liu (Biomedical Engineering), Feb. 2018
Nethika Ariyasinghe (Biomedical Engineering), June 2017
Bryant Thompson (Biomedical Engineering), May 2017
Elizabeth Seigler (Biomedical Engineering), April 2017
Alexa Hudnut (Biomedical Engineering), Jan. 2017
Shih Jye Tan (Biomedical Engineering), Nov. 2016
Samantha McBirney (Biomedical Engineering), Sept. 2016
Representative, BME Advisory Board meeting, Fall 2016
Faculty Panelist, USC Viterbi Mentoring Panel, Pursuing a Career in Academia, Nov 2016
Faculty Speaker, USC WISE STEM Bytes seminar series, Nov 2016
Faculty Speaker, USC Viterbi WISE PhD Preview Day, Nov 2016

OUTREACH

Faculty Host, VAST, Viterbi School of Engineering, USC, July-August 2017
Faculty Host, SHINE, Viterbi School of Engineering, USC, June-August 2017
Director of "NanoPeek," 32nd Street School (middle school), lecture and nano infographic program, USC, spring 2017
Presenter at Women in STEAM 2017, Mirman School, March 15, 2017
Lab Tours and Presentation, STEM Spotlight, Viterbi School of Engineering, USC, Oct. 2016
Program Leader, "Experiences in Molecular Engineering", Parker High School-Institute for Molecular Engineering, University of Chicago, Sept 2015-April 2016
Workshop Leader, Expanding Your Horizons, University of Chicago, 2013, 2014
Demo Leader, "Physics with a Bang!", University of Chicago, Dec. 2013
Co-Chair, Distinguished Role Models in Life Sciences, Northwestern University, June 2009-June 2011

PROFESSIONAL MEMBERSHIPS

American Society of Nephrology (ASN), 2017-
Women in Nephrology, 2017-
Society for Laboratory Automation and Screening Conference (SLAS), 2016-
Engineering Medicine and Biology Society (EMBS IEEE), 2016-
Society for Biomaterials (SFB), 2014-
Biomedical Engineering Society (BMES), 2014-
American Institute of Chemical Engineers (AIChE), 2013-
American Heart Association (AHA), 2012-

CHUNG LAB MEMBER AWARDS

Postdoctoral Researchers

Christopher Poon

Tony B. Academic Travel Award, SLAS Annual Conference, San Diego, CA, Feb. 2018

Graduate Students

Jonathan Wang

Provost PhD Fellowship (2016-2017)

Andrew and Erna Viterbi Fellowship (2017-2018)

Undergraduate Students

Sarah Milkowski

Women in Science and Engineering (WiSE) Undergraduate Research Experience Fellowship (Winter 2017)

Johan Joo

Genomics and Geology Undergraduate Research Experience (Fall 2017)

Sampreeti Chowdhuri

Women in Science and Engineering (WiSE) Undergraduate Research Experience Fellowship (Fall 2017, Spring 2018)

Provost Undergraduate Research Fellowship (Spring 2017, Spring 2018)

Timothy Chang

Genomics and Geology Undergraduate Research Experience (Fall 2017)

Provost Undergraduate Research Fellowship (Spring 2017)

Prajwal Bharadwaj

Genomics and Geology Undergraduate Research Experience (Spring 2017)

CHUNG LAB PRESS

Awards

August 7th, 2017—American Institute for Chemical Engineers (AIChE) 35 Under 35

<https://www.aiche.org/resources/publications/cep/2017/august/aiche-r-35-under-35>

[https://www.aiche.org/chenected/2017/07/aiche-35-under-35-](https://www.aiche.org/chenected/2017/07/aiche-35-under-35-bioengineering?utm_campaign=coschedule&utm_source=twitter&utm_medium=ChEnected&utm_content=AIChE%2035%20Under%2035:%20Bioengineering)

[bioengineering?utm_campaign=coschedule&utm_source=twitter&utm_medium=ChEnected&utm_content=AIChE%2035%20Under%2035:%20Bioengineering](https://www.aiche.org/chenected/2017/07/aiche-35-under-35-bioengineering?utm_campaign=coschedule&utm_source=twitter&utm_medium=ChEnected&utm_content=AIChE%2035%20Under%2035:%20Bioengineering)

<http://www.scrippscollege.edu/news/releases/alumnae/eun-ji-chung-06-named-35-under-35-in-bioengineering>

<https://viterbischool.usc.edu/news/2017/08/eun-ji-chung-receives-2017-aiche-35-35-award/>

July 19th, 2017—Emerging Investigator in Biomaterials Science

<http://pubs.rsc.org/en/content/articlehtml/2017/bm/c7bm90033c?page=search>

Research

September 19th, 2017—Undergraduates present at BMES

<https://viterbischool.usc.edu/news/2017/09/perseverance-pays-off/>

February 1, 2017—Broad Innovation Award, USC

<https://viterbischool.usc.edu/news/2017/02/living-biomaterial-world/>

<http://news.usc.edu/115948/viterbi-researcher-work-seeks-to-help-those-who-really-have-to-go/>

Outreach

October 2, 2017—NanoPeek, USC

<https://viterbischool.usc.edu/news/2017/10/peeking-science-world/>

May 25, 2017—NanoPeek, USC

<https://viterbipk12.usc.edu/2017/05/usc-viterbi-professors-partner-with-k-12-schools-throughout-the-southland/>

June 5, 2017—Podcast, USC Biomedical Engineering

March 15, 2017—Women in STEAM 2017, Mirman School

<https://mirman.org/news-resources/newsroom/women-steam-2017-resounding-success>

October 28, 2016—STEM Spotlight, USC

<https://viterbi.usc.edu/news/news/2016/viterbi-vast-hosts.htm>

<http://comptonherald.com/students-dabble-biomedical-engineering-usc/>