

# SUZIE HWANG PUN

*Curriculum Vitae*

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## EDUCATIONAL HISTORY

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California Institute of Technology, Pasadena, California  
Ph.D. in Chemical Engineering w/ Biology minor, 2000  
M.S. in Chemical Engineering, 1998

Stanford University, Stanford, California  
B.S. in Chemical Engineering, June 1996

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## EMPLOYMENT HISTORY

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University of Washington  
Robert J. Rushmer Assoc Prof. of Bioengineering 2009-present  
Assistant Professor of Bioengineering, 2003-2009  
Adjunct with Chemical Engineering

Insert Therapeutics  
Pasadena, California  
Senior Scientist 2000-2003

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## SELECT AWARDS AND HONORS

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Controlled Release Society Young Investigator Award	2014
Inaugural <i>Biomaterials Science</i> Lectureship	2014
Young Scientist Award, 9 <sup>th</sup> World Biomaterials Congress	2012
Undergraduate Mentor Award, University of Washington	2008
Junior Faculty Innovator Award, UW College of Engineering	2008
Presidential Early Career Award for Scientists and Engineers (PECASE)	2006
Invited Chair, National Academies of Science Symposium on Chinese-American Frontiers of Science	2006
National Science Foundation CAREER Award	2005
Alliance for Cancer Gene Therapy Young Investigator Award	2005
National Hemophilia Foundation Career Development Award	2004
MIT Technology Review's TR100 Award: "top 100 young innovators"	2002
Everhart Lectureship Prize, California Institute of Technology	2000
Whitaker Foundation Doctoral Fellow	1996-2000
Phi Beta Kappa	1995
President's Award, Stanford University	1993

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## SELECT RECENT PUBLICATIONS

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*Selected out of 76 peer-reviewed publications, H-index – 31*

1. Sellers, D.L., Kim, T.H., Mount, C.W., Pun, S.H., and Horner, P.J. (2014) Prolonged hirudin delivery from poly(lactic-co-glycolic) acid microspheres encapsulated in Pluronic F-127 and functional recovery from a demyelination lesion. *Biomaterials*, v35:8895-8902.

2. Shi, J., Chou, B., Choi, J.L., Johnson, R.N., Schellinger, J.G., and Pun, S.H. (2013) Effect of polyplex morphology on cellular uptake, intracellular trafficking and transgene expression. *ACS Nano*, v7:10612-10620.
3. Cieslewicz, M.E., Tang, J.J., Yu, J., Cao, H., Zavaljevski, M., Lieber, A., Raines, E.W., and Pun, S.H. (2013) Targeted delivery of pro-apoptotic peptides to tumor-associated macrophages improves survival. *PNAS*, v110:15919-15924.
4. Schellinger, J.G., Pahang, J.A., Shi, J., and Pun, S.H. (2013) Block copolymers containing a hydrophobic domain of membrane-lytic peptides form micellar structures and are effective gene delivery agents. *ACS Macro Lett*, v2:725-730.
5. Wei, H., Chu, D.S.H., Zhao, J., Pahang, J., and Pun, S.H. (2013) Synthesis and evaluation of cyclic cationic polymers for gene delivery. *ACS Macro Lett*, v2:1047-1050.
6. Chu, D.S.H., Schellinger, J.G., Bocek, M.J., Johnson, R.N., and Pun, S.H. (2013) Optimization of Tet1 ligand density in HPMA-co-oligolysine copolymers for targeted neuronal gene delivery. *Biomaterials*, v34:9632-9637
7. Wei, H., Volpatti, L.R., Sellers, D.L., Maris, D.O., Andrews, I.W., Hemphill, A.S., Chan, L.W., Chu, D.S.H., Horner, P.J., and Pun, S.H. (2013) Dual-responsive, stabilized nanoparticles for efficient in vivo plasmid delivery. *Angewandte Chemie*, v52:5377-5381.
8. Wei, H., Pahang, J.A., and Pun, S.H. (2013) Optimization of brush-like cationic copolymers for non-viral gene delivery. *Biomacromol*, v14:275-284.
9. Schellinger, J.G., Pahang, J.A., Johnson, R.N., Chu, D.S.H., Sellers, D.L., Maris, D.O., Convertine, A.J., Stayton, P.S., Horner, P.J., and Pun, S.H. (2013) Melittin-grafted HPMA-Oligolysine Based Copolymers for Improved Gene Delivery. *Biomaterials*, v34:2318-2326.
10. Shi, J., Schellinger, J.G., Johnson, R.N., Choi, J.L., Chou, B., Anghel, E.L., and Pun, S.H. (2013) Influence of histidine incorporation on buffer capacity and gene transfection efficiency of HPMA-co-oligolysine brush polymers. *Biomacromolecules*, v14:1961-1970.
11. Chen, C-Y., Kim, T.H., Wu, W-C., Huang, C.M., Wei, H., Mount, C.W., Tian, Y., Jang, S-H., Pun, S.H., and Jen, A.K-Y. pH-dependent, thermosensitive polymeric nanocarriers for drug delivery to solid tumors. (2013) *Biomaterials*, v34:4501-4509.
12. Wei, H., Schellinger, J.G., Chu, D.S.H., and Pun, S.H. (2012) Neuron-targeted copolymers with sheddable shielding blocks synthesized using a reducible, RAFT-ATRP double-head agent. *JACS*, v134:16554-16557.
13. Kacherovsky, N., Harkey, M.A., Blau, C.A., Giachelli, C.M., and Pun, S.H. (2012) Combination of Sleeping Beauty transposition and Chemically Induced Dimerization selection for robust production of engineered cells. *Nucleic Acids Research*, doi: 10.1093/nar/gks213.
14. Kim, T.H., Mount, C.W., Dulken, B.W., Ramos, J., Fu, C.J., Khant, H.A., Chiu, W., Gombotz, W., Pun, S.H. (2012) Filamentous, mixed micelles of triblock copolymers enhance tumor localization of indocyanine green in a murine xenograft model. *Mol Pharmaceutics* v9:135-143.
15. Chu, D.S.H., Johnson, R.N. and Pun, S.H. (2012) Cathepsin B-sensitive polymers for compartment-specific degradation and nucleic acid release. *J Controlled Release* v157:445-454.

Six issued U.S. patents in drug delivery, including:

Pun, S.H., Gonzalez, H., Davis, M.E., Bellocq, N., and Cheng, J. Compositions containing inclusion complexes. U.S. 7,807,198. Issued October 2010.; U.S. 8,092,833. Issued Jan 2012.

Pun, S.H., Bellocq, N.C., Cheng, J., Gonzalez, H.G., and Davis, M.E. Complexing Agents for Compositions Containing Inclusion Complexes. U.S. 7,166,302. Issued January 2007.

Pun, S.H., Bellocq, N.C., Cheng, J., Gonzalez, H.G., and Davis, M.E. Therapeutic Compositions Containing Inclusion Complexes. US 7,018,609. Issued March, 2006.

## OTHER SCHOLARLY ACTIVITY

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NIH BMBI Study Section Member (2011-2013)

Over 70 invited international and national lectures

Editorial Board member of: *Acta Biomaterialia*, *Biomaterials Science*, *Biomatter*, *Drug Delivery and Translational Research*, *Molecular Therapy*,

Board of Scientific Directors for the Controlled Release Society (2014-2017); Biomedical Engineering Society Annual Meeting Program Vice-Chair (2013)

Primary supervisor of (past and present) at University of Washington: 13 postdoctoral fellows, 16 graduate students, 46 undergraduate students, 2 high school students