

## **YOON YEO, Ph.D.**

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### **EDUCATION**

<b>Ph.D.</b> in Pharmaceutics (Advisor: Kinam Park) Purdue University, West Lafayette, IN	December 2003
<b>M.S.</b> in Microbial Chemistry (Advisor: Eung-Chil Choi) Seoul National University, Seoul, Korea	February 1995
<b>B.S.</b> in Pharmacy Seoul National University, Seoul, Korea	February 1993

### **PROFESSIONAL EXPERIENCE**

<b>Assistant Professor</b> Department of Industrial and Physical Pharmacy, School of Pharmacy and Pharmaceutical Sciences Weldon School of Biomedical Engineering (by courtesy) Purdue University, West Lafayette, IN	January 2007 – present
<b>Postdoctoral Research Associate</b> (Advisor: Robert Langer) Department of Chemical Engineering Massachusetts Institute of Technology, Cambridge, MA	April 2004 – December 2006
<b>Postdoctoral Research Associate</b> (Advisor: Kinam Park) Department of Industrial and Physical Pharmacy Purdue University, West Lafayette, IN	December 2003 – April 2004
<b>Research Scientist</b> Samyang Corp., Pharmaceutical R&D center, Daejeon, Korea	January 1995 – July 1999

### **HONORS AND AWARDS**

2008	AACP New Investigators Program for Pharmacy Faculty
2004	AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies.
2003	CRS-3M Drug Delivery Systems Graduate Student/Post-Doc Outstanding Drug Delivery Paper Award.
2002	First place in the poster presentation, 32nd Annual Pharmaceutics Graduate Student Research Meeting.

- 2001 Highlights of Student Posters, 28th CRS Annual Meeting and Exposition.  
2000 Flemming Award (University scholarship), Purdue University, IN.  
1999 Korean Government Scholarship, National Institute for International Education Development, Korea.

## **PUBLICATIONS**

### **Peer-reviewed Articles**

1. Yang, Y., Bajaj, N., Xu, P., Ohn, K., Tsifansky, M.D., and **Yeo, Y.** Development of highly porous large PLGA microparticles for pulmonary drug delivery. *Biomaterials*. In press (doi:10.1016/j.biomaterials.2008.12.044).
2. Xu, P., Gullotti, E., Tong, L., Highley, C.B., Errabelli, D.R., Hasan, T., Cheng, J.X., Kohane, D.S., and **Yeo, Y.** Intracellular drug delivery by poly(lactic-co-glycolic acid) nanoparticles, revisited. *Molecular Pharmaceutics*. In press (DOI: 10.1021/mp800137z).
3. Tsifansky, M.D.\*, **Yeo, Y.\***, Evgenov, O.V., Bellas, E., Benjamin, J., Kohane, D.S. Inhalational delivery of synergistic antipseudomonals is optimized by co-encapsulation in a biocompatible particle. *The AAPS Journal*. (2008) 10(2):254-260. (\* authors contributed equally)
4. Domnina, Y.A., **Yeo, Y.**, Tse, J.Y., Bellas, E., and Kohane, D.S. Spray-dried lipid-hyaluronan-polymethacrylate microparticles for drug delivery in the peritoneum. *J. Biomed. Mater. Res.* (2008) 87(3): 825-831.
5. **Yeo, Y.** and Kohane, D.S. A hybrid system for preventing postsurgical adhesions. *Ann. Surg.* (2008) 247(4): 712.
6. **Yeo, Y.** and Kohane, D.S. Polymers in the prevention of peritoneal adhesions. *Eur. J. Pharm. Biopharm.* (2008) 68: 57-66.
7. Snider, C. Lee, S.Y., **Yeo, Y.**, Gregori, G.J., Robinson, J.P., and Park, K. Microenvironment-Controlled Encapsulation (MiCE) Process: Effects of PLGA Concentration, Flow Rate, and Collection Method on Microcapsule Size and Morphology. *Pharm. Res.* (2008) 25(1): 5-15.
8. Zumbuehl, A., Ferreira, L., Kuhn, D., Asthashkina, A., Long, L., **Yeo, Y.**, Iaconis, T., Ghannoum, M., Fink, G.R., Langer, R., Kohane, D.S. Antifungal hydrogels. *Proc. Natl. Acad. Sci.* (2007) 104(32): 12994-12998.
9. **Yeo, Y.**, Adil, M., Bellas, E., Astashkina, A., Chaudhary, N., and Kohane, D.S. Post-surgical adhesion prevention using a budesonide delivery system based on an *in situ* cross-linkable hyaluronan hydrogel. *Journal of Controlled Release*. (2007) 120 (3): 178-185.

10. **Yeo, Y.**, Bellas, E., Highley, C.B., Langer, R., and Kohane, D.S. Peritoneal adhesion prevention with an in situ cross-linkable hyaluronan gel containing tissue-type plasminogen activator. *Biomaterials*. (2007) 28(25): 3704-3713.
11. Ito, T., **Yeo, Y.**, Highley, C.B., Bellas, E., Kohane, D.S. Dextran- based in-situ cross-linked injectable hydrogels to prevent peritoneal adhesions. *Biomaterials*. (2007) 28(23): 3418-3426.
12. **Yeo, Y.**, Ito, T., Bellas, E., Highley, C.B., Marini, R., and Kohane, D.S., In situ cross-linkable hyaluronan hydrogels containing polymeric nanoparticles for preventing post-surgical adhesions. *Ann. Surg.* (2007) 245(5): 819-824.
13. Ito, T., Fraser, I.P., **Yeo, Y.**, Highley, C.B., and Kohane, D.S. Anti-inflammatory function of an in-situ cross-linkable conjugate hydrogel of hyaluronic acid and dexamethasone. *Biomaterials*. (2007) 28(10): 1778-1786.
14. Ito, T., **Yeo, Y.**, Highley, C.B., Bellas, E., Benitez, C., and Kohane, D.S. The prevention of peritoneal adhesions by in-situ cross-linking hydrogels of hyaluronic acid and cellulose derivatives. *Biomaterials*. (2007) 28(6): 975-983.
15. **Yeo, Y.**, Geng, W., Ito, T., Kohane, D.S., Burdick, J., and Radisic, M., A photocrosslinkable hydrogel for myocyte cell culture and injection. *J. Biomed. Mat. Res.* (2006) 81B(2): 312-322.
16. Jia, X., **Yeo, Y.**, Clifton, R.J., Jiao, T., Kohane, D.S., Kobler, J., Zeitels, S.M., and Langer R. Hyaluronic Acid-Based Microgels and Microgel Networks for Vocal Fold Restoration. *Biomacromolecules*. (2006) 7(12): 3336-3344.
17. Fukuda, J., Khademhosseini, A., **Yeo, Y.**, Yeh, J., Yang, X., Eng, G., Wang, C.-F., Kohane, D.S., and Langer, R. Micromolding of photocrosslinkable chitosan hydrogel for spheroid microarray and co-cultures. *Biomaterials*. (2006) 27(30): 5259-5267.
18. Karp, J.M.\*, **Yeo, Y.\***, Geng, W., Cannizarro, C., Yan, K., Kohane, D.S., Vunjak-Novakovic, G., Langer, R., and Radisic, M. A photolithographic method to create cellular micropatterns. *Biomaterials*. (2006) 27(27): 4755-4764. (\* authors contributed equally)
19. **Yeo, Y.**, Highley, C.B., Bellas, E., Ito, T., Marini, R., Langer, R., and Kohane, D.S., In situ cross-linkable hyaluronic acid hydrogels prevent post-operative abdominal adhesions in a rabbit model. *Biomaterials*. (2006) 27(27): 4698-4705.
20. **Yeo, Y.**, Burdick, J.A., Highley, C.B., Marini, R., Langer, R., and Kohane, D.S., Peritoneal application of chitosan and UV-cross-linkable chitosan. *J. Biomed. Mater. Res.* (2006) 78A(4): 668-675.
21. Kohane, D.S., Tse, J.Y., **Yeo, Y.**, Padera, R., Shubina, M., Langer, R., Biodegradable polymeric microspheres and nanospheres for drug delivery in the peritoneum. *J. Biomed. Mater. Res.* (2006) 77A(2): 351-361.

22. **Yeo, Y.**, Bellas, E., Firestone, W., Langer, R., and Kohane, D.S., Complex coacervates for thermally sensitive controlled release of flavor compounds. *J. Agric. Food Chem.* (2005) 53(19): 7518-7525. (\* Received news recognition in August 24, 2005 issue of Institute of Food Technologists Weekly Newsletter.)
23. Park, J.H., Ye, M., **Yeo, Y.**, Lee, W.K., Paul, C., and Park, K., Reservoir-Type Microcapsules Prepared by the Solvent Exchange Method: Effect of Formulation Parameters on Microencapsulation of Lysozyme. *Molecular Pharmaceutics*. (2006) 3(2): 135-143.
24. **Yeo, Y.** and Park, K., A new microencapsulation method using an ultrasonic atomizer based on interfacial solvent exchange. *J. Controlled Release* (2004) 100(3): 379-388.
25. **Yeo, Y.** and Park, K., Characterization of reservoir-type microcapsules made by the solvent exchange method. *AAPS PharmSciTech* (2004) 5(4): article 52.
26. **Yeo, Y.**, Chen, A.U., Basaran, O.A., and Park, K., Solvent exchange method: a novel microencapsulation technique using dual microdispensers. *Pharm. Res.* (2004) 21(8): 1419-1427. Cover page.
27. **Yeo, Y.** and Park, K., Control of encapsulation efficiency and initial burst in polymeric microparticle systems. *Arch. Pharmacol Res.* (2004) 27(1): 1-12.
28. **Yeo, Y.**, Basaran, O.A. and Park, K., A new process for making reservoir-type microcapsules using ink-jet technology and interfacial phase separation. *J. Controlled Release* (2003) 93(2): 161-173.
29. **Yeo, Y.**, Baek, N. and Park, K., Microencapsulation methods for delivery of protein drugs. *Biotechnol. Bioprocess Eng.* (2001) 6: 213-230.

### Book Chapters

1. **Yeo, Y.** and Park, K. A new microencapsulation technique based on the solvent exchange method (Chapter 17). In: Svenson, S. (Ed.), *Polymeric Drug Delivery I - Particulate Drug Carriers*, ACS Symposium Series, Vol. 923, American Chemical Society, Washington, DC. 2006: 448 pp
2. Park, K. and **Yeo, Y.**, Microencapsulation technology. In: *Encyclopedia of Pharmaceutical Technology*. Marcel Dekker, Inc. 2006: 2315-2327.
3. Lee, S.C., **Yeo, Y.** and Park, K. Albumin modification. In: Ma, P.X. and Elisseeff, J. (Eds.), *Scaffolding in Tissue Engineering*. Taylor & Francis. 2005: 283-299.
4. **Yeo, Y.** and Park, K., Microencapsulation of protein drugs: a novel approach. In: Wise, D.L., Hasirci, V., Lewandrowski, K.-U., Yaszemski, M.J., Altobelli, D.E. and Trantolo, D.J. (Eds.), *Biomaterials handbook—Advanced applications of basic sciences and bioengineering*. Marcel Dekker, Inc. 2004: 305-332

### Manuscripts Submitted or In revision

1. Sheskin, T., Qi, J., Bellas, E., Epstein-Barash, H., **Yeo, Y.**, Kwon, A., and Kohane, D.S. Comparative assessment of polymeric microparticles for prolonged duration local anesthesia *in vitro* and *in vivo*. *The AAPS Journal*. In revision.
2. Gullotti, E. and **Yeo, Y.**, Nanocarriers for passive, active, and passive-active tumor targeted drug delivery. *Molecular Pharmaceutics*. Submitted.

### Book Review

Microdrop Generation (Eric R. Lee. CRC Press, Boca Raton, FL. 2003. 252 pp.) for *Pharmaceutical Research* (2003) 20(12): 2048-2049.

### Patents

1. **Yeo, Y.**, Xu, P., 6/2/2008. Non-viral gene delivery vector, United States Provisional Application 61/058,057.
2. **Yeo, Y.**, 2/12/2008. Porous polymeric microparticles for drug delivery to the lung, United States Provisional Application 61/028,086.
3. Kohane, D.S., **Yeo, Y.**, Given, P., Langer, R., 2007. Delivery and controlled release of encapsulated lipophilic nutrients.
4. **Yeo, Y.**, Ito, T., Langer, R., Kohane, D.S., Kodokian, G.K., 2007. Compositions and Methods for Inhibiting Adhesions, United States Provisional Patent Application 60/901,241.
5. Park, K., **Yeo, Y.**, 2004. Microencapsulation using ultrasonic atomizers, United States Patent 6,767,637.
6. **Yeo, Y.**, Chen, A.U., Basaran, O.A. and Park, K., 2003. Microencapsulation of drugs by solvent exchange, United States Patent 6,599,627.
7. Lee, H.H., Cho, J.W., Kim, C.Y., Song, J.D., Park, C.M., Yoon, H.J., **Yeo, Y.**, Paick, J.S. and Pai, C.M., 1996. Transdermal drug delivery device for treating erectile dysfunction. PCT Int. Appl. 9632141.

### Proceedings

1. **Yeo, Y.**, Errabelli, D.R., Highley, C.B., Hasan, T., Langer, R., and Kohane, D.S.: Exocytosis as a potential limitation to intracellular drug delivery. Proceedings of the 13th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, February 26-28, 2007.

2. Jia, X., **Yeo, Y.**, Clifton, R.J., Jiao, T., Kohane, D.S., Kobler, J.B., Zeitels, S.M., and Langer, R.: Hyaluronic acid-based microgels for vocal fold regeneration. *Polymer Preprints* 47(2): 67-68, 2006.
3. Park, J.H., Ye, M., **Yeo, Y.**, Paul, C., Choi, D.K., and Park, K.: Solvent exchange method for microencapsulation of protein drugs: Size control of microcapsules bearing lysozyme as a model protein., *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 32: #434, 2005.
4. Park, J.H., Ye, M., Lee, W.K., **Yeo, Y.**, Paul, C., Choi, D.K., and Park, K.: Microcapsule preparation based on the solvent exchange method implemented by the ultrasonic atomizer system. *Proceedings of the 12th International Symposium on Recent Advances in Drug Delivery Systems*. p.164-165, Salt Lake City, UT, February 21-24, 2005.
5. Park, K. and **Yeo, Y.**: The solvent exchange method using an ultrasonic atomizer. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #363, 2004.
6. Paul, C., **Yeo, Y.**, Gregori, G., Robinson, J.P., and Park, K., Flow cytometric microencapsulation. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #126, 2004.
7. Park, K., **Yeo, Y.**, and Basaran, O.A.: Novel microencapsulation techniques based on the solvent exchange method, *Pharmaceutical Sciences World Congress (PSWC2004)*. 2nd World Congress of the Board of Pharmaceutical Sciences of FIP, 2: 51a-51b, 2004.
8. **Yeo, Y.** and Park, K.: New microencapsulation technique using an ultrasonic atomizer based on the solvent exchange method. *PMSE Preprints* 89: 143-144, 2003.
9. **Yeo, Y.**, Chen, A.U., Basaran, O.A., and Park, K.: Solvent exchange method using an ink-jet nozzle system: Control of microcapsule size. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 30: #342, 2003.
10. **Yeo, Y.**, Cho, Y.W., and Park, K.: Biomimetic materials. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 30: #49, 2003.
11. **Yeo, Y.**, Chen, A.U., Basaran, O.A., and Park, K.: Solvent Exchange Method: A New Process for Making Reservoir-Type Microcapsules. *Proceedings of the 11th International Symposium on Recent Advances in Drug Delivery Systems*. #001, Salt Lake City, UT, March 3-6, 2003.
12. **Yeo, Y.**, Chen, A.U., Basaran, O.A., and Park, K.: Solvent exchange method: A novel microencapsulation technique. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 29: 547-548, 2002.
13. **Yeo, Y.**, Kim, B.Y., Kim, J.D., Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method: Variables for process optimization. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 29: 549-550, 2002.

14. **Yeo, Y.** and Park, K.: Solvent exchange method: a novel microencapsulation process for protein delivery. Proc. Intern. Symp. Control. Rel. Bioact. Mater., 28: 928-929, 2001.

## **ABSTRACTS AND PRESENTATIONS**

### **Podiums**

1. **Yeo, Y.**, Bellas, E., Highley, C.B., Langer, R., and Kohane, D.S.: Peritoneal Adhesion Prevention with an In situ Cross-linkable Hyaluronan Gel Containing Tissue-type Plasminogen Activator in a Rabbit Repeated Injury Model. An abstract and podium presented at the 34th Annual Meeting of the Controlled Release Society, Abstract #110, Long Beach, CA, United States, July 7-11, 2007.
2. **Yeo, Y.**, Kohane, D.S., and Langer, R.: Post-surgical adhesion prevention. Podium presented at the DuPont MIT Alliance Student Symposium, Cambridge, MA, United States, September 25, 2006.
3. **Yeo, Y.**, Kohane, D.S., and Langer, R.: Post-surgical adhesion prevention. Podium presented at the DuPont MIT Alliance Student Symposium, Cambridge, MA, United States, September 20, 2005.
4. **Yeo, Y.**, Kohane, D.S., and Langer, R.: Controlled drug delivery for post-surgical adhesion prevention. Podium presented at the DuPont MIT Alliance Student Symposium, Cambridge, MA, United States, October 13, 2004.
5. Park, K. and **Yeo, Y.**: Solvent exchange method: A new microencapsulation technique. An abstract and podium presented at the 227th ACS National Meeting, Anaheim, CA, United States, BIOT-381, March 28-April 1, 2004.
6. **Yeo, Y.** and Park, K.: New Microencapsulation Technique Using an Ultrasonic Atomizer Based on the Solvent Exchange Method. An abstract and podium presented at the 226th ACS National Meeting, PMSE-094, New York, NY, United States, September 7-11, 2003.
7. **Yeo, Y.**, Cho, Y.W. and Park, K.: Biomimetic materials. An abstract and podium presented at the 30th Annual Meeting of the Controlled Release Society, Abstract #049, Glasgow, United Kingdom, July 19-23, 2003.
8. **Yeo, Y.**, Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method: A novel microencapsulation technique using dual microdispensers. An abstract and podium presented at the 33rd Annual Pharmaceutics Graduate Student Research Meeting, Chicago, IL, 2003.

### **Posters**

1. **Yeo, Y.**, Peisheng Xu, Emily Gullotti, Ling Tong, Ji-Xin Cheng: Intracellular drug delivery by poly(lactic-co-glycolic acid) nanoparticles, revisited. An abstract and poster presented at

the 2008 Gordon Research Conference on Drug Carriers in Medicine & Biology, Big Sky, MT, United States, August 24-29, 2008.

2. **Yeo, Y.\***, Yang, Y., Bajaj, N., Xu, P.: Development of Highly Porous PLGA Microparticles for Sustained Local Drug Delivery to the Lung. An abstract and poster presented at the 35th Annual Meeting of the Controlled Release Society, New York, NY, United States, July 12-16, 2008.
3. Xu, P., **Yeo, Y.\***: Polyanion-Coated Intracellularly Degradable Nanoparticles as a Safe and Efficient Gene Delivery System. An abstract and poster presented at the 35th Annual Meeting of the Controlled Release Society, New York, NY, United States, July 12-16, 2008.
4. Yang, Y., Bajaj, N., Xu, P., and **Yeo, Y.\***: Development of Highly Porous PLGA Microparticles for Sustained Local Drug Delivery to the Lung. An abstract and poster presented at the 3rd annual 3M Science and Engineering Faculty Day, St. Paul, MN, United States, June 17-18, 2008.
5. **Yeo, Y.**, Bellas, E., Highley, C.B., Astashkina, A., Langer, R., and Kohane, D.S.: *In situ* cross-linkable hyaluronan gels containing tissue-type plasminogen activator or budesonide prevent peritoneal adhesion in a rabbit model. An abstract and poster presented at the 2007 Gordon Research Conference on Biomaterials: Biocompatibility/Tissue Engineering, Holderness School, Plymouth, NH, United States, July 22-27, 2007.
6. **Yeo, Y.**, Tsifansky, M.D., Evgenov, O.V., Bellas, E., Benjamin, J., Kohane, D.S.: Development of dry-powder inhaler of anti-pseudomonal antibiotics. An abstract and poster presented at the 2nd annual 3M Science and Engineering Faculty Day, St. Paul, MN, United States, June 19-20, 2007.
7. **Yeo, Y.**, Highley, C.B., Bellas, E., Ito, T., Marini, R., Langer, R., and Kohane, D.S., *In situ* cross-linkable hyaluronic acid hydrogels prevent post-operative abdominal adhesions in a rabbit model. AAPS National Biotechnology Conference, Boston, MA, United States, June 18-21, 2006
8. **Yeo, Y.**, Burdick, J.A., Highley, C.B., Marini, R., Langer, R., and Kohane, D.S., Peritoneal application of chitosan and UV-cross-linkable chitosan. 8th US-Japan Symposium on Drug Delivery Systems, Maui, HI, United States, December 18-23, 2005.
9. Radisic, M., **Yeo, Y.**, and Geng, W. A simple method for fabrication of patterned cell arrays using photocrosslinkable chitosan. 2005 Materials Research Society Fall Meeting, Abstract K5.25, Boston, MA, United States, November 28-December 2, 2005.
10. **Yeo, Y.**, Burdick, J., Geng, W., and Radisic, M. Injectable Hydrogel Blend for Regeneration of Infarcted Myocardium. 2005 Materials Research Society Fall Meeting, Abstract J3.20, Boston, MA, United States, November 28-December 2, 2005.



11. Paul, C., Lee, S., **Yeo, Y.**, Grégori, G., Robinson, J.P., and Park, K.: Flow cytometric microencapsulation, American Association of Pharmaceutical Scientists Annual Meeting & Exposition, The AAPS Journal, 7(S2), Abstract R6113, Nashville, TN, United States, November 6-10, 2005.
12. Park, J.H., Ye, M., **Yeo, Y.**, Lee, W.K., Paul, C., Choi, D., and Park, K.: Reservoir-type microcapsules for protein delivery: Optimization of the fabrication condition. 30th Annual Meeting and Exhibition of Society for Biomaterials. Abstract #585, Memphis, TN, United States, April 27-30, 2005.
13. Park, J.H., Ye, M., **Yeo, Y.**, Lee, W.K., and Park, K.: Size-controlled reservoir-type microcapsules prepared by the solvent exchange method. 229th ACS National Meeting, BIOT-212, San Diego, CA, United States, March 13-17, 2005.
14. Park, J.H., **Yeo, Y.**, Ye, M., and Park, K.: Microencapsulation of lysozyme using the solvent exchange method: Effect of sugar and salt concentration on the particle size. American Association of Pharmaceutical Scientists Annual Meeting and Exposition, Abstract # W4038, Baltimore, MD, United States, November 7-11, 2004.
15. **Yeo, Y.** and Park, K.: Characterization of reservoir-type microcapsules made by the solvent exchange method. An abstract and poster presented at the 2004 American Association of Pharmaceutical Scientists Annual Meeting and Exposition, Abstract # T2161, Baltimore, MD, United States, November 7-11, 2004.
16. Park, K. and **Yeo, Y.**: The solvent exchange method using an ultrasonic atomizer. An abstract and poster presented at the 31th Annual Meeting of the Controlled Release Society, Honolulu, Hawaii, United States, Abstract # 363, June 12-16, 2004.
17. Paul, C., **Yeo, Y.**, Chen, A.U., Basaran, O.A., and Park, K.: Microencapsulation of protein drugs using the solvent exchange method. 2003 American Association of Pharmaceutical Scientists Annual Meeting and Exposition, Abstract # W4165, Salt Lake City, UT, United States, October 26-30, 2003.
18. **Yeo, Y.** and Park, K.: Process parameters involved in a new microencapsulation technique based on the solvent exchange method. An abstract and poster presented at the 2003 American Association of Pharmaceutical Scientists Annual Meeting and Exposition, Abstract # W4206, Salt Lake City, UT, United States, October 26-30, 2003.
19. **Yeo, Y.**, Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method using an ink-jet nozzle system: Control of microcapsule size. An abstract and poster presented at the 30th Annual Meeting of the Controlled Release Society, Abstract #342, Glasgow, United Kingdom, July 19-23, 2003.
20. **Yeo, Y.**, Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method: A novel microencapsulation technique. An abstract and poster presented at the 29th Annual Meeting of the Controlled Release Society, Abstract #294, Seoul, Korea, July 20-25, 2002.

21. **Yeo, Y.**, Kim, B.Y., Kim, J.D., Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method: Variables for process optimization. An abstract and poster presented at the 29th Annual Meeting of the Controlled Release Society, Abstract #295, Seoul, Korea, July 20-25, 2002.
22. **Yeo, Y.**, Chen, A.U., Basaran, O.A. and Park, K.: Solvent exchange method: A novel microencapsulation technique. An abstract and poster presented at the 32nd Annual Pharmaceutics Graduate Student Research Meeting, Omaha, NE, 2002.
23. **Yeo, Y.** and Park, K.: Solvent exchange method: a novel microencapsulation process for protein delivery. An abstract and poster presented at the 28th International Symposium on Controlled Release of Bioactive Materials and 4th Consumer & Diversified Products Conference, Abstract #6159, San Diego, CA, United States, June 23-27, 2001.

### **INVITED LECTURES**

1. Therapeutic particle engineering for drug delivery, Indiana University-Purdue University at Indianapolis, IN, December 5, 2008.
2. Intracellular drug delivery by poly(lactic-co-glycolic acid) nanoparticles, revisited. The University of Kansas, Lawrence, KS, November 11, 2008.
3. Development of highly porous large polymeric microparticles for sustained local drug delivery to the lung, at a 2-day Symposium on BioNanoTechnology and Pharmaceuticals, Hyderabad, India, March 14, 2008.
4. Development of microparticles for inhalational drug delivery, Dong-A Pharmaceutical Co. Ltd., Seoul, Korea, December 26, 2007.
5. Biomaterials and drug delivery systems for post-surgical adhesion prevention, Samyang Corp., Daejeon, Korea, July 26, 2006; Seoul National University, Seoul, Korea, March 14, 2007; Hanyang University, Korea, March 14, 2007; Korea Advanced Institute of Science and Technology, Daejeon, Korea, March 16, 2007.
6. Nanoencapsulation of omega-3 fatty acids, Pepsi-Cola Company, Valhalla, NY, June 29, 2005.

### **MANUSCRIPT REVIEWS**

*AAPS PharmSciTech*

*AAPS Journal*

*Angewandte Chemie International Edition*

*Bioconjugate Chemistry*

*Biomacromolecules*

*Biomedical Materials*

*Bioorganic & Medicinal Chemistry*

*Colloids and Surfaces A: Physicochemical and Engineering Aspects*

*European Polymer Journal*

*Flavor and Fragrance Journal*

*Inorganic Chemistry*

*International Journal of Pharmaceutics*

*Journal of Agricultural and Food Chemistry*

*Journal of Biomedical Materials Research*

*Journal of Biomaterials Science-Polymer Edition*

*Journal of Controlled Release*

*Journal of Orthopaedic Research*

*Langmuir*

*Molecular Pharmaceutics*

*Nanotechnology*

*Pharmaceutical Research*

*PNAS*

*Tissue Engineering*

## **STUDENT SUPERVISION**

### ***Post-doctoral***

Peisheng Xu, Ph.D. (Purdue University, West Lafayette, IN): May 2007 – present.

### ***Graduate Students***

Zohreh Amoozgar (IPPH, Purdue University, West Lafayette, IN) Oct. 2007 – present.

Emily Gullotti (Biomedical Eng., Purdue University, West Lafayette, IN) Oct. 2007 – present.  
Basma Ibrahim (IPPH, Purdue University, West Lafayette, IN) Jan. 2008-present.

***Post-baccalaureate students***

Yan Yang (Graduate student, Jilin University, China) Sept. 2007- present.  
Sofia Piskounova (Graduate student, University of Uppsala, Sweden) Sep. 2005-Feb. 2006.  
Christopher B. Highley (Technician, MIT, Cambridge, MA) Sep. 2004-Aug. 2006.  
Evangelia Bellas (Technician, MIT, Cambridge, MA) June 2004-Dec. 2006.

***Undergraduates students***

Jennifer Bastijanac (Biomedical Eng., Purdue University, West Lafayette, IN) Sep. 2008-Dec.2008.  
Parag Sharma (Pre-pharmacy, Purdue University, West Lafayette, IN) Aug. 2008 – present.  
Griffin Quick (Biomedical Eng., Purdue University, West Lafayette, IN) Jan. 2008-Dec. 2008.  
Kimberly Ohn (Chemical Engineering, Purdue University, West Lafayette, IN) Jan 2008-present.  
Haein Yang (Pre-pharmacy, Purdue University, West Lafayette, IN) Sept. 2007-present.  
Sooyoung Shin (Pre-pharmacy, Purdue University, West Lafayette, IN) Aug 2007 – Dec. 2008.  
Ashmita Hoskote (Biomedical Eng., Purdue University, West Lafayette, IN) Jan. 2008-Apr. 2008.  
Roosan Islam (Pharm. D., Purdue University, West Lafayette, IN) Aug 2007 - Dec. 2007.  
Nimisha Bajaj (Biomedical Eng., Purdue University, West Lafayette, IN) May 2007- Mar. 2008.  
Albert Kwon (Chemical Eng., MIT, Cambridge, MA) Feb.-Dec. 2006.  
Caitlin Johnson (Summer internship, Brooks School, North Andover, MA) June-Aug., 2006.  
Jiao Wang (Chemical Eng., MIT, Cambridge, MA) July 2005-Jan 2006.  
Daphne Hao (Chemical Eng., MIT, Cambridge, MA) Sep. 2005-Dec. 2005.  
Ami Yamamoto (Chemical Eng., MIT, Cambridge, MA) Sep. 2005-Dec. 2005.  
Maroof Adil (Chemical Eng., MIT, Cambridge, MA) Sep. 2004-June 2006.  
Nilika Chaudhary (Chemical Eng., MIT, Cambridge, MA) Sept. 2004- June 2006.  
Amy Campbell (Summer internship, Brooks School, North Andover, MA) July-Aug. 2005.  
William Firestone (Summer internship, Harvard University, Cambridge, MA) July-Aug. of 2004 and 2005.  
Amanda Braun (Chemical Eng., Purdue University, West Lafayette, IN) Jan.-May 2003.  
Michelle Goodrich (St. Louis College of Pharmacy, St. Louis, MO) July-Aug. 2002.  
Gloria Ruiz (Summer internship, University of Puerto Rico, PR) July-Aug. 2000.

**EXTRACURRICULAR ACTIVITIES**

Treasurer, Controlled Release Society Student Chapter, Purdue University, West Lafayette, IN.  
Urigoood, Korean Traditional Percussion Band, Seoul National University, Korea.

**PROFESSIONAL MEMBERSHIPS**

Rho Chi Pharmacy Honor Society  
Controlled Release Society  
American Association of Pharmaceutical Scientists  
American Chemical Society