CURRICULUM VITA

KINAM PARK

Purdue University
Weldon School of Biomedical Engineering
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January 2019

TITLE: Showalter Distinguished Professor of Biomedical Engineering
Professor of Pharmaceutics

Education:	B.S. in Pharmacy	1971-1975	Seoul National University, Seoul, Korea
	Ph.D. in Pharmaceutics	1979-1983	University of Wisconsin, Madison, WI
	Postdoc in Chem. Eng.	1983-1985	University of Wisconsin, Madison, WI

Academic Appointment

7/06 - present	Showalter Distinguished Professor of Biomedical Engineering Purdue University
6/01 - present	President, Akina, Inc.
7/98 - present	Professor, Department of Biomedical Engineering, Purdue University
7/94 - present	Professor, Department of Pharmaceutics, Purdue University
7/90 - 6/94	Associate Professor, Department of Pharmaceutics, Purdue University
2/86 - 6/90	Assistant Professor, Department of Pharmaceutics, Purdue University
5/85 - 1/86	Research Assistant Professor Department of Pharmaceutics, University of Utah
4/83 - 4/85	Postdoctoral Research Associate Department of Chemical Engineering, University of Wisconsin
1/79 - 3/83	Research Assistant Department of Pharmaceutics, University of Wisconsin
3/75 - 7/77	Served in the Korean Army as a lieutenant

Awards and Honors

NIH New Investigator Research Award (1986)
Achievement Award in 1989 IBM Supercomputing Competition (1990)
Young Investigator Award: Controlled Release Society (1992)
Controlled Release Society-Merck Award for the Outstanding Paper in the Ag/Vet field (1997)
University Faculty Scholar, Purdue University (1999)
Clemson Award (the basic research category) of Society for Biomaterials (2001)
Research Achievement Award (Pharmaceutics and Drug Delivery Section) (2001)
Controlled Release Society-NanoSystems Outstanding Pharmaceutical Paper Award (2004)
Controlled Release Society Founders Award (2004)
Louis W. Busse Lectureship of School of Pharmacy, University of Wisconsin (2008)
Sigma Xi Research Award (the Purdue University Chapter) (2009)
Advisory Professor for Medical Science Research at Kyungpook National University (2009-2012)
The Nagai Foundation Tokyo Distinguished Lectureship (2010)
Purdue Cancer Research Award by Lafayette Lions Club (with Professor Ji-Xi Cheng) (2011)
Kyung Hee University International Scholar (2012)
Visiting Professor of Heilongjiang University of Chinese Medicine, China (2012)
Visiting Professor of Ajou University, Korea (2013)
Thomson Reuters' list of "The World's Most Influential Scientific Minds. 2014 (2014)
Korean-American Society in Biotech and Pharmaceuticals (KASBP)-Daewoong Award (2014)
Featured in Indiana at 200. A Celebration of the Hoosier State (2015)
Ashland Inc. Distinguished Lecturer at the University of Kentucky (2015)
Controlled Release Society Distinguished Service Award (2015)
Willis A. Tacker Prize for Outstanding Teaching in Weldon School of Biomedical Engineering (2015)
The 2015 Purdue Innovator Hall of Fame Inductee (2015)
Distinguished Scholar, the Chinese University of Hong Kong (2016)
Special Government Employee at FDA CDER (2016)
Clarivate Analytics' list of "Most Influential Scientific Minds. Highly Cited Researchers (2016)
Clarivate Analytics' list of "Highly Cited Researchers (2017)
The University of Auckland Distinguished Visitor Award (2017)
Clarivate Analytics' list of "Highly Cited Researchers (2018)
The 2018 CRS Foundation Award (honoring Kinam Park with Student Travel Grant Program) (2018)

Controlled Release Society-3M Drug Delivery Systems Graduate Student Outstanding Research Award in Drug Delivery (Yoon Yeo: Controlled Release Society, 2003)
AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (Mentoring Yong Qiu: American Association of Pharmaceutical Scientists, 2003)
AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (Mentoring Yoon Yeo: American Association of Pharmaceutical Scientists, 2004)
Drug Delivery Special Interest Group Outstanding Contribution to the Society for Biomaterials (Eunah Kang: Society for Biomaterials 2007)

Board of Governors of the Controlled Release Society (1993-1996)
Fellow, American Association for Pharmaceutical Scientists (AAPS) (1993)
President of the Korean-American Pharmaceutical Scientists Association (1995-97)
Fellow, American Institute for Medical and Biological Engineering (1996)
Fellow, Biomaterials Science and Engineering of the Society for Biomaterials (2000)
President of the Controlled Release Society (2001-2002)
Fellow, Controlled Release Society (2010)

Professional Activities

Advisory Board

- Advisory Board of the Molecular Modeling Conference (1994)
- Advisory Panel on Polymeric Excipients, USP (1995-1999)
- ACS Books Advisory Board (1997-2000)
- Advisory Panel on Current Drugs (1997-1999)
- Scientific Advisory Board, International Symposium on the Frontiers in Biomedical Polymers Applications (2000-2001)
- Scientific Advisory Board, International Symposium on Recent Advances in Drug Delivery Systems (2000-2001)
- Advisory Panel on Excipients: Substance and Characterization Expert Committee, USP (2000-2005)
- Scientific Program Committee of the 2nd Pharmaceutical Sciences World Congress (PSWC) (2004)
- Scientific Advisory Board, Delsite, Inc. (2004-2008)
- Scientific Advisory Board, International Nanomedicine and Drug Delivery Symposium (2005-)
- Scientific Advisory Board, Soleira Laboratories (2006-2008)
- Scientific Advisory Board, Boston Scientific (2006-2008)
- Scientific Advisory Board, Lohmann Therapie-Systeme AG (2006-2012)
- Scientific Advisory Board, European Symposium on Controlled Drug Delivery (2006-2009)
- Scientific Advisory Board, China International Pharmaceutical Technologies Conference 2007 (2006-2008)
- Scientific Organizing Committee for Micro 2007, the 16th International Symposium on Microencapsulation (2007)
- International Advisory Board, CIMTEC 2008 the 3rd International Conference on Smart Materials, Structures and Systems (2007-2008)
- Dean's Faculty Advisory Committee, Purdue University, College of Engineering (2007-2013)
- Engineering Named Professorships Committee, Purdue University, College of Engineering (2007-2014)
- Provost Search Committee, Purdue University (2007-2008)
- Board of Directors & Chairman of Fellowship Committee, CRS Foundation (2008-2013)
- International Advisory Board, CIMTEC 2010 the 5th Forum on New Materials & 9th International Conference on Medical Applications of Novel Biomaterials and Nano-biotechnology (2009-2012)
- Drug Delivery Scientific Advisory Board, Genentech (2010-2015)
- The International Symposium on Biomaterials and the China-Japan-Korea (Asia 3) Foresight Joint Symposium on Gene Delivery, Guilin, Guangxi, China (2010-2011)
- Chairman, Dean's Faculty Advisory Committee, Purdue University, College of Engineering (2010-2012)
- International Scientific Advisory Board, School of Pharmacy at Queen’s University Belfast (2011)
- Scientific Committee, the 19th International Symposium on Microencapsulation, Pamplona, Spain (2012-2013).
- International Advisory Board, 20th International Symposium on Microencapsulation. IMS2015 Boston (2014)
- External Advisor for the Center of Biological Research Excellence at the University of South Carolina (2014-2015)
- Chair, the Annual Meeting Programme Committee for the Controlled Release Society conference in 2016.
- Faculty Awards and Recognition (FAR) committee, College of Engineering representative (2015-2018)
- Scientific Advisory Board, the International Conference on Biomaterials Science in Tokyo (2016)
- International Advisory Board, CIMTEC 2018 the 8th Forum on New Materials & 12th International Conference on Medical Applications of Advanced Biomaterials and Nano-biotechnology (2017-2018)

External Advisor for Internal Projects at Korea Institute of Science and Technology (KIST) (2017)
International Organizing/Advisory Committee, 5th Symposium on Innovative Polymers for Controlled Delivery, Suzhou, China (2018)

Editorial Board

Journal of Biomaterials Science- Polymer Edition (1993-)
Journal of Bioactive and Compatible Polymers (1993-)
Journal of Controlled Release (1997-2005)
Colloids and Surfaces B: Biointerfaces (1997-)
Archives of Pharmacal Research (1998-)
PharmSci (official electronic journal of AAPS) (1999-2009)
PharmSciTech (official electronic journal of AAPS) (2001-2009)
Drug Delivery Technology (2002-)
Advanced Drug Delivery Reviews (2003-)
Biomaterials Research (2003-)
Encyclopedia of Pharmaceutical Technology (2003-)
Macromolecular Research (2004-)
Journal of Pharmacy and Pharmacology (2004-)
Journal of Biopharmaceutics and Biotechnology (2005-)
CRS Books (2006-)
Drugs in Pharmaceutical Sciences Series, Taylor & Francis & Informa (2007-)
Journal of Drug Delivery Science and Technology (2008-)
Nanomedicine: Nanotechnology, Biology and Medicine (2010-2011)
Nano Reviews (2010-)
Drug Delivery and Translational Research (2010-)
Frontiers in Drug Delivery Biotechnology (2010-)
Experimental Biology and Medicine (2012-2015)
Journal of Hydrogels (2013-)
Biomaterials Research (2014-)
Regenerative Engineering and Translational Medicine (2015-)
International Journal of Pharmaceutics (2018-)

Journal Editor

Associate Editor, Pharmaceutical Research (1995-2004)
Book Review Editor, Pharmaceutical Research (1996-2004)
Guest Editor, Colloids and Surfaces B: Biointerfaces (1998-1999)
Guest Editor, Advanced Drug Delivery Reviews (2001-2002)
Editor, Americas, Journal of Controlled Release (2005)
Editor-in-Chief, Journal of Controlled Release (2005-)

NIH Study Section

NIH Pharmacology Study Section member (1996-2001, 2003)
NIH Bioengineering, Technology, and Surgical Sciences Study Section member (2005-2009)
Member, College of CSR Reviewers, NIH (2010-2013, 2016)

Special Reviewer of NIH Study Sections
Surgery and Bioengineering Study Section (1991, 1995-1997, 1999, 2004)
Surgery, Anesthesiology, & Trauma Study Section (1992-1994)
Special Study Section SSS-8 (1995)
Pharmacology Special Study Section, Chairman (2001, 2002, 2003)
National Cancer Institute Special Emphasis Panel (2005)
Member of NIH SBIR Special Study Sections

Diabetes and Digestive and Kidney Diseases (1990, 1991, 1993), Pharmacology (1990, 1992, 1993), Physiological Sciences (1990), Reproductive Endocrinology (1990-1992, 1994-1996, 1999), Multidisciplinary Special Emphasis (1994, 1995), NIDDK (2009).

Membership in Academic, Professional, and Scholarly Societies

American Association of Pharmaceutical Scientists
American Chemical Society
Controlled Release Society
Society for Biomaterials
Biomedical Engineering Society

Books

1) Park, K., Shalaby, S.W.S., and Park, H.: *Biodegradable Hydrogels for Drug Delivery*, Technomic Publishing Co., Inc., Lancaster, PA, 1993, 252 pages.
2) Ottenbrite, R., Hwang, S., and Park, K., Eds.: *Hydrogels and Biodegradable Polymers for Bioapplications* (ACS Symposium Series 627), American Chemical Society, Washington, DC, 1996, 268 pages.
3) Park, K., Ed.: *Controlled Drug Delivery: Challenges and Strategies*, American Chemical Society, Washington, DC, 1997, 629 pages.
4) Park, K. and Mrsny, R., Eds.: *Controlled Drug Delivery: Designing Technologies for the Future* (ACS Symposium Series 752), American Chemical Society, Washington, DC, 2000, 459 pages.
5) Park, K.D., Kwon, I.C., Yui, N., Jeong, S.Y. and Park, K., Eds.: *Biomaterials and Drug Delivery toward New Millennium*, Han Rim Won Publishing Co., Seoul, Korea, 2000, 691 pages.
6) Yui, N., Mrsny, R., and Park, K., Eds.: *Reflexive polymers and hydrogels: Understanding and designing the fast-responsive polymeric systems,* CRC Press, Boca Raton, FL, 2004. 452 pages.
7) Morishita, M. and Park, K., Eds.: *Biodrug Delivery Systems: Fundamentals, Applications and Clinical Development*, (Volume 194 of the Drugs and the Pharmaceutical Sciences Series), Informa Healthcare, New York, NY, 2010. 471 pages.
8) Ottenbrite, R.M., Park, K., Okano, T., and Peppas, N.A., Eds.: *Hydrogels Handbook*, Springer, 2010, 432 pages.
9) Wen, H. and Park, K., Eds.: *Oral Controlled Release Formulation Design and Drug Delivery: Theory to Practice*, John Wiley & Sons, New York, NY, 2010. 363 pages.
10) Bae, Y.H., Mrsny, R., and Park, K., Eds.: *Cancer Targeted Drug Delivery: An Elusive Dream*, Springer, New York, 2013, 720 pages.
11) Park, K., Ed.: *Biomaterials for Cancer Therapeutics*, Woodhead Publishing Ltd., Oxford, UK, 2013, 528 pages.
12) Hillery, A. and Park, K., Eds.: Drug Delivery: Fundamentals and Applications, Second Edition, CRC Press/Taylor & Francis Group, Boca Raton, FL, 2016. ISBN: 978-1-4822-1771-1. 614 pages.

Journal Special Issues

1) Park, K. Ed., *Protein- and Cell-Repellent Surfaces*, Colloids and Surfaces B: Biointerfaces, Elsevier Science, Vol. 18 (No. 3-4), 2000. (with Editorial on p.167).
2) Park, K., Ed., *Recent Developments in Hydrogels*, Advanced Drug Delivery Reviews, Elsevier Science, Vol. 54 (1), 2002. (With Preface on p.1).

Refereed Articles

1) Park, K. and Robinson, J.R.: Bioadhesive polymers as platforms for oral-controlled drug delivery: method to study bioadhesion, *Int. J. Pharm*. 19: 107-127, 1984.

2) Park, K. and Cooper, S.L.: Importance of composition of the initial protein layer and platelet spreading in acute surface-induced thrombosis, *Trans. Amer. Soc. Artif. Inter. Organs* 31: 483-488, 1985.

3) Park, K., Mosher, D.F., and Cooper, S.L.: Acute surface-induced thrombosis in the canine ex vivo model: Importance of protein composition of the initial monolayer and platelet activation, *J. Biomed. Mater. Res*. 20: 589-612, 1986.

4) Park, K., Albrecht, R.M., Simmons, S.R., and Cooper, S.L.: A new approach to study the adsorbed protein layer on biomaterials: Immunogold staining techniques, *J. Colloid Interf. Sci*. 111: 197-212, 1986.

5) Lambrecht, L.K., Young, B.R., Stafford, R.E., Park, K., Albrect, R.M., Mosher, D.F., and Cooper, S.L.: The influence of preadsorbed canine von Willebrand factor, fibronectin and fibrinogen on in-vivo artificial surface-induced thrombosis, *Thromb. Res*., 41: 99-117, 1986.

6) Pitt, W.G., Park, K., and Cooper, S.L.: Sequential protein adsorption on platelet deposition on polymer surfaces, *J. Colloid Interf. Sci*. 111: 343-362, 1986.

7) Park, K., Gerndt, S.J., and Cooper, S.L.: The effect of fibrinogen sialic acid residues on *ex vivo* platelet deposition on biomaterials, *Thromb. Res*. 43: 293-302, 1986.

8) Park, K., Simmons, S.R., and Albrecht, R.M.: Surface characterization of biomaterials by immunogold staining - quantitative analysis, *Scanning Microscopy*, 1: 339-350, 1987.

9) Pitt, W.G., Young, B.R., Park, K., and Cooper, S.L.: Plasma protein adsorption: in vitro and ex vivo observations. *Makromol. Chem., Macromol. Symp*., 17: 453-465, 1988.

10) Park, K.: Enzyme-digestible swelling hydrogels as platforms for long-term oral drug delivery: synthesis and characterization. *Biomaterials*, 9: 435-441, 1988.

11) Park, K., Gerndt, S.J., and Park, H.: Patchwise adsorption of fibrinogen on glass surfaces and its implication in platelet adhesion. *J. Colloid Interf. Sci*., 125: 702-711, 1988.

12) Park, K.: Factors affecting efficiency of colloidal gold staining: pH-dependent stability of protein-gold, conjugates, *Scanning Microscopy*, Suppl. 3: 15-25, 1989.

13) Park, K. and Park, H.: Application of video-enhanced interference reflection microscopy to the study of platelet-surface interactions, *Scanning Microscopy*, Suppl. 3: 137-146, 1989.

14) Park, K.: A new approach to study mucoadhesion: Colloidal gold staining, *Int. J. Pharm*., 53: 209-217, 1989.

15) Park, K., Mao, F. W., and Park, H.: Morphological characterization of surface-induced platelet activation, *Biomaterials*, 11:24-31, 1990.

16) Shalaby, W.S.W. and Park, K.: Biochemical and mechanical characterization of enzyme-digestible hydrogels*, Pharm. Res*., 7:816-823, 1990.

17) Lu, D.R. and Park, K.: Protein adsorption on polymer surfaces: calculation of adsorption energies, *J. Biomater. Sci. Polymer Edn*., 1:243-260, 1990.

18) Lu, D.R. and Park, K.: A three-dimensional protein graphic program, *Computer Physics Communications*, 60: 257-263, 1990.

19) Park, K., Mao, F. W., and Park, H.: The minimum surface fibrinogen concentration necessary for platelet activation on dimethyldichlorosilane-coated glass, *J. Biomed. Mater. Res*., 25: 407-420, 1991.

20) Lu, D.R., Lee, S.J., and Park, K.: Calculation of solvation interaction energies for protein adsorption on polymer surfaces, *J. Biomater. Sci. Polymer Edn*., 3: 127-147, 1991.

21) Lu, D.R. and Park, K.: Effect of surface-hydrophobicity on the conformational changes of adsorbed fibrinogen, *J. Colloid Interf. Sci*., 144: 271-281, 1991.

22) Shalaby, W.S.W., Peck, G., and Park, K.: Release of dextromethorphan hydrobromide from freeze-dried enzyme-degradable hydrogels, *J. Control. Release*, 16: 355-364, 1991.

23) Park, K. and Lu, D.R.: Communication to the editor: Authors' reply, *J. Biomater. Sci. Polymer Edn*., 2: 321-322, 1991.

24) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Gastric retention of enzyme-digestible hydrogels in the canine stomach under fasted and fed conditions: A preliminary analysis using new analytical techniques, *ACS Symposium Series*, 469: 237-248, 1991.

25) Tseng, Y.C. and Park, K.: Synthesis of photo-reactive poly(ethylene glycol) and its application to the prevention of surface-induced platelet activation, *J. Biomed. Mater. Res*., 26: 373-391, 1992.

26) Shalaby, W.S.W., Blevins, W.E., and Park, K.: In vitro and in vivo studies of enzyme-digestible hydrogels for oral drug delivery, *J. Control. Release*, 19: 131-144, 1992.

27) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Use of ultrasound imaging and fluoroscopic imaging to study gastric retention of enzyme-digestible hydrogels, *Biomaterials*, 13: 289-296, 1992.

28) Amiji, M., Park, H., and Park, K.: Study on the prevention of surface-induced platelet activation by albumin coating, *J. Biomater. Sci. Polymer Edn*., 3: 375-388, 1992.

29) Shalaby, W.S.W., Chen, M., and Park, K.: A mechanistic assessment of enzyme-induced degradation of albumin-crosslinked hydrogels, *J. Bioact. Compat. Polymers*, 7: 257-274, 1992.

30) Amiji, M. and Park, K.: Prevention of protein adsorption and platelet adhesion on surfaces by PEO/PPO/PEO triblock copolymers, *Biomaterials*, 13: 682-692, 1992.

31) Amiji, M. and Park, K.: Surface modification by radiation-induced grafting of PEO/PPO/PEO triblock copolymers, *J. Colloid Interf. Sci*., 155: 251-255. 1993.

32) Tseng, Y.C., Kim, J., and Park, K.: Photografting of albumin onto dimethyl-dichlorosilane-coated glass, *J. Biomaterials Applications*, 7: 233-249, 1993.

33) Shalaby, W.S.W., Jackson, R., Blevin, W.E., and Park, K.: Synthesis of enzyme-digestible, interpenetrating hydrogel networks by gamma-irradiation, *J. Bioact. Compat. Polymers*, 8: 3-23, 1993.

34) Amiji, M. and Park, K.: Surface modification of polymeric biomaterials with poly(ethylene oxide), albumin, and heparin for reduced thrombogenicity, *J. Biomater. Sci. Polymer Edn*., 4:217-234, 1993.

35) Tseng, Y.C., Mullins, W.M., and Park, K.: Albumin grafting onto polypropylene by thermal activation, *Biomaterials*, 14: 392-400, 1993.

36) Shalaby, W.S.W., Abdallah, A.A., Park, H., and Park, K.: Loading of albumin into hydrogels by an electrophoretic process, *Pharm. Res*., 10: 457-460, 1993.

37) Park, H. and Park, K.: Role of polymers in pharmaceutical products, *ACS Symp. Ser*., 540: 2-15, 1994.

38) Amiji, M. and Park, K.: Surface modification of polymeric biomaterials with PEO: A steric repulsion approach, *ACS Symp. Ser*., 540: 135-146, 1994.

39) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lallone, R., Levy, M., Ryker, D., and Park, K.: Poly(methacrylic acid) hydrogels as carriers of bacterial exotoxins in an oral vaccine for cattle, *ACS Symp. Ser*., 540: 288-296, 1994.

40) Kamath, K. and Park, K.: Preparation and characterization of enzyme-digestible hydrogels from natural polymers by gamma-irradiation, *ACS Symp. Ser*., 545: 55-65, 1994.

41) Lee, S.J. and Park, K.: Study of polymer-solvent interactions using computational chemistry, *ACS Symp. Ser*., 545: 221-233, 1994.

42) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., Levy, M., and Park, K.: Poly(methacrylic acid) hydrogels for rumen bypass and the delivery of oral vaccines to ruminants, *ACS Symp. Ser*., 545: 214-220, 1994.

43) Amiji, M.A. and Park, K.: Analysis on the surface adsorption of PEO/PPO/PEO triblock copolymers by radiolabeling and flurescence techniques, *J. Applied Polymer Sci*., 52: 539-544, 1994.

44) Kamath, K. and Park, K.: Surface modification of polymeric biomaterials by albumin grafting using gamma-irradiation, *Journal of Applied Biomaterials*, 5: 163-173, 1994.

45) Kamath, K., Park, H., Shim, H.S., and Park, K.: Albumin grafting on dimethyldichlorosilane-coated glass by gamma-irradiation, *Colloids and Surfaces. B. Biointerfaces*, 2: 471-479, 1994.

46) Bowersock, T.L., Shalaby, W.S.W., Levy, M.L., Samuels, M.L., Lallone, R., White, M.R., Borie, D.L., Lehmeyer, J., and Park, K.: Evaluation of an orally administered vaccine using hydrogels containing bacterial exotoxins of Pasteurella Haemolytica in cattle, *Am. J. Veterinary Res*, 55(4): 502-509, 1994.

47) Lee, S.J. and Park, K.: Protein interaction with surfaces: Separation distance-dependent interaction energies, *J. Vacuum Science and Technology A*., 12(5): 2949-2956, 1994.

48) Bowersock, T.L., Shalaby, W.S.W., Levy, M., Blevins, W.E., and Park, K.: The potential use of poly(methacrylic acid) hydrogels for the oral administration of vaccines to ruminants, *J. Control. Release*, 31: 245-254, 1994.

49) Tseng, Y.-C., McPherson, T., Yuan, C.S., and Park, K.: Grafting of ethylene glycol/butadiene block copolymers on to dimethyldichlorosilane-coated glass by γ-irradiation, *Biomaterials*, 16: 963-972, 1995.

50) McPherson, T., Lee, S.J., and Park, K.: Analysis on the prevention of protein adsorption by steric repulsion theory, *ACS Symposium Series*, 602: 395-404, 1995.

51) Kamath, K.R. and Park, K.: Study on the release of invertase from enzymatically degradable dextran hydrogels, *Polymer Gels and Networks*, 3: 243-254, 1995.

52) Chen, J., Jo, S., and Park, K.: Polysaccharide hydrogels for protein drug delivery, *Carbohydrate Polymers*, 28: 69-76, 1995.

53) Kamath, K.R. and Park, K.: Hydrogels from biopolymers: Preparation, characterization, and drug release studies, *Int. J. Pharmaceutical Adv*., 1(3): 258-268, 1996.

54) Lee, S.J. and Park, K.: Glucose-sensitive phase-reversible hydrogels, *ACS Symposium Series*, 627: 11-16, 1996.

55) Paparella, A. and Park, K.: Synthesis of polysaccharide chemical gels by gamma-irradiation, *ACS Symposium Series*, 620: 180-187, 1996.

56) Bowersock, T.L., HogenEsch, H., Suckow, M., Porter, R.E., Jackson, R., Park, H., and Park, K.: Oral vaccination with alginate microsphere systems, *J. Control. Release*, 39: 209-220. 1996.

57) Obaidat, A.A. and Park, K.: Characterization of glucose dependent gel-sol phase transition of the polymeric glucose-concanavalin a hydrogel system, *Pharm. Res*., 13: 989-995, 1996.

58) Kamath, K.R., Danilich, M.J., Marchant, R.E., and Park, K.: Platelet interactions with plasma-polymerized ethylene oxide and N-vinyl-2-pyrrolidone films and linear poly(ethylene oxide) layer, *J. Biomaterials Sci. Polymer Edn*., 7: 977-988, 1996.

59) Suckow, M.A., Bowersock, T.L., Park. H., and Park, K.: Oral immunization of rabbits against *Pasteurella multocida* with an alginate microsphere delivery system, *J. Biomaterials Sci. Polymer Edn*. 8(2): 131-139, 1996.

60) Guy, R., Powell, M., Fix, J., and Park, K.: Controlled release technologies: current status and future prospects, *Pharm. Res*., 13: 1759, 1996.

61) Park, H. and Park, K.: Biocompatibility issues of implantable drug delivery systems, *Pharm. Res*., 13: 1770-1776, 1996.

62) Lee, S.J. and Park, K.: Synthesis and characterization of sol-gel phase-reversible hydrogels sensitive to glucose, *J. Molecular. Recognition*, 9: 549-557, 1996.

63) Obaidat, A.A. and Park, K.: Characterization of protein release through glucose-sensitive hydrogel membranes, *Biomaterials*, 18(11): 801-806, 1997.

64) Li, T., Kildsig, D.O., and Park, K.: Computer simulation of molecular diffusion in amorphous polymers, *J. Control. Release*, 48(1): 57-66, 1997.

65) Park, K., Gemeinhart, R.A., and Park, H.: Movement of fibrinogen receptors on the ventral membrane of spreading platelets, *Biomaterials*, 19: 387-395, 1998.

66) McPherson, T.B., Shim, H.S., and Park, K.: Grafting of PEO to glass, nitinol, and pyrolytic carbon surfaces by γ-irradiation, *J. Biomed. Mater. Res. Appl. Biomater*., 38: 289-302, 1997.

67) Li, T., Lee, H.B., and Park, K.: Analysis of glucose-binding sites of proteins with glucose sensitivity, *J. Biomaterials Sci. Polymer Edn*., 9 (4): 327-344, 1998.

68) Bowersock, T.L., HogenEsch, H., Torregrosa, S., Borie, D., Wang, B., Park, H., and Park, K.: Induction of pulmonary immunity in cattle by oral administration of ovalbumin in alginate microspheres, *Immunology Letters*, 60: 37-43, 1998.

69) McPherson, T., Kidane, A., Szleifer, I., and Park, K.: Prevention of protein adsorption by tethered PEO layers: Experiments and single chain mean field analysis, *Langmuir*, 14: 176-186, 1998.

70) Bowersock, T.L., HogenEsch, H., Wang, B., Torregrosa, S., Borie, D., Park, H., and Park, K.: Induction of pulmonary immunity in cattle by oral administration of antigen encapsulated in alginate microspheres, *S.T.P. Pharma Sciences*, 8: 53-57, 1998

71) Hwang, S.J., Park, H. and Park, K.: Gastric retentive drug delivery systems, *Critical Reviews in Therapeutic Drug Carrier Systems*, 15: 243-284, 1998.

72) Li, T. and Park, K.: Fractal analysis of pharmaceutical particles by atomic force microscopy, *Pharmaceutical Research*, 15: 1222-1232, 1998.

73) Badylak, S.F., Record, R., Lindberg, K., Hodde, J., and Park, K.: Small intestinal submucosa: A substrate for in vitro cell growth, *J. Biomaterials Sci. Polymer Edn*., 9: 863-878, 1998.

74) Kidane, A., Szabocsik, J.M., and Park, K.: Accelerated study on lysozyme deposition on poly(HEMA) contact lenses, *Biomaterials*, 19: 2051-2055, 1998.

75) Morris, K., Nail, S.L., Peck, G.E., Byrn, S.R., Griesser, U., Stowell, J., Hwang, S.-J., and Park, K.: Advances in pharmaceutical materials and processing, *Pharm. Sci. & Tech. Today*, 1(6): 235-245, 1998.

76) Chen, J., Park, H., and Park, K.: Synthesis of superporous hydrogels: hydrogels with fast swelling and superabsorbent properties, *Journal of Biomedical Materials Research*, 44: 53-62, 1999.

77) Kim, J.J. and Park, K.: Smart hydrogels for bioseparation, *Bioseparation*, 7: 177-184, 1999.

78) Suckow, M.A., Siger, L., Bowersock, T, Turek, J., Van Horn, D., Borie, D., Taylor, A., Park, H., and Park, K.: Alginate microspheres for vaccine delivery. *ACS Symposium Series*, 737: 1-13, 1999.

79) Jo. S. and Park, K.: Synthesis and characterization of thermoreversible sucrose hydrogels (sucrogels), *ACS Symposium Series*, 737: 113-126, 1999.

80) Chen, J. and Park, K.: Superporous hydrogels: fast responsive hydrogel systems. *J. Macromolecular Sci*., *Pure Appl. Chem*. A36 (7&8): 917-930, 1999.

81) Kidane, A. and Park, K.: Complement activation by PEO-grafted glass surfaces. *J. Biomed. Mater. Res. Appl. Biomater*. 48: 640-647, 1999.

82) Jo, S. and Park, K.: Novel Poly(ethylene glycol) (PEG) gels from silylated PEGs, *J. Bioact. Compat. Polymers*. 14: 457-473, 1999.

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14) Biodegradable hydrogels as platforms for long-term oral drug delivery, Fourth Annual Symposium of the Johnson & Johnson Drug Delivery Subcommittee, October 8, 1990.

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25) Surface modification of biomaterials, Korea Institute of Science & Technology, Seoul, Korea, June 25, 1993.

26) Prevention of protein adsorption and cell adhesion, Gordon Conference on Biocompatibility and Biomaterials, Tilton, NH, July 11, 1993.

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60) Protein adsorption on surfaces with grafted polymers- Experiment, The Purdue Industrial Associates Program on Chemistry of Materials, Purdue University, West Lafayette, IN, October 3, 1997.

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90) Gastric retention drug delivery systems: Past and present, U.S. Food and Drug Administration, Rockville, MD, September 29, 1999.

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93) Superporous hydrogels: pharmaceutical and medical applications, Procter & Gamble Company, Cincinnati, OH, November 1, 1999.

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99) Drug discovery in global economy, Korean Society of Pharmaceutics, Seoul, Korea, May 26, 2000.

100) PEO-grafted biomaterials: In vitro and in vivo behavior, Dept. of Chemical and Materials Engineering, University of Kentucky, Lexington, KY, June 30, 2000.

101) Modulated insulin delivery using phase-reversible glucose-sensitive hydrogels, The 40th Microsymposium of the Prague Meetings on Macromolecules, the International Union of Pure and Applied Chemistry, July 18, 2000.

102) Modulated insulin delivery using phase-reversible glucose-sensitive hydrogels, The 8th Hydrogel, Biodegradable Polymers for Medical Application Workshop, Korea Advanced Institute of Science and Technology, August 24, 2000.

103) PEG-modified biomaterials: Lack of in vitro-in vivo correlation, Univ. of Alabama in Huntsville, January 19, 2001.

104) Superporous hydrogels: pharmaceutical and biomedical applications, The North Carolina Pharmaceutical Discussion Group, Chapel Hill, NC, March 28, 2001.

105) Glucose-sensitive sol-gel reversible hydrogels for modulated insulin delivery, University of North Carolina, Chapel Hill, NC, March 29, 2001.

106) Gastric retention devices: Past and present, GlaxoWellcome, Chapel Hill, NC, March 30, 2001.

107) Superporous hydrogels for biomedical and pharmaceutical applications, Society for Biomaterials Annual Meeting, Minneapolis, MN, April 26, 2001.

108) Polymers in oral drug delivery, University of Maryland, Baltimore, MD, May 3, 2001.

109) Gastric retention drug delivery systems: Past and present, Northeastern University, Boston, MA, May 18, 2001.

110) Hydrotropic polymers for enhancing water solubility of poorly soluble drugs, The University of Tokyo, Tokyo, Japan, July 8, 2001.

111) Hydrotropic polymers for enhancing water solubility of poorly soluble drugs, Japan Advanced Institute of Science and Technology, Ishikawa, Japan, July 9, 2001.

112) Hydrotropic polymers for enhancing water solubility of poorly soluble drugs, Korea Institute of Science and Technology, Seoul, Korea, July 13, 2001.

113) Hydrotropic polymers for enhancing water solubility of poorly soluble drugs, Korea Research Institute of Chemical Technology, Taejeon, Korea, July 20, 2001.

114) Drug delivery, Biomaterials in 2001: State of the art. UWEB Summer Symposium, Seattle, WA, August 21, 2001.

115) Superporous hydrogels for pharmaceutical and biomedical applications, University of Georgia, College of Pharmacy, Athens, GA, Nov. 12, 2001.

116) Hydrotropic polymers and hydrogels for poorly soluble drugs, Samyang Corp., Taejeon, Korea, November 21, 2001.

117) Controlled drug delivery systems: Target areas for product development, Samyang Corp., Yongin-Si, Korea, November 22, 2001.

118) Hydrogels in pharmaceutical and biomedical applications, University of Southern California, Los Angeles, CA, December 7, 2001.

119) Hydrogels in drug delivery, University of Pennsylvania, Institute of Medicine and Engineering, Philadelphia, PA, January 29, 2002.

120) Hydrogels in controlled drug delivery, The 17th Annual Meeting of the Academy of Pharmaceutical Science and Technology, Japan (APSTJ), Shizuoka, Japan, March 30, 2002.

121) Polymeric systems in oral controlled drug delivery, Taisho Pharmaceutical Co., Ltd., Saitama-shi, Saitama, Japan, April 2, 2002.

122) Polymeric systems in oral controlled drug delivery, Daiichi Pharmaceutical Co., Ltd., Tokyo, Japan, April 2, 2002.

123) Hydrogels in drug delivery, AAPS/PDD Conference, Washington, D.C., April 22-24, 2002.

124) Novel hydrogels in drug delivery applications, University of Michigan, Ann Arbor, MI, May 15, 2002.

125) Hydrogels in drug delivery, University of Toronto, Toronto, Canada, May 30, 2002.

126) New platforms for drug delivery, McMaster University, Hamilton, Ontario, Canada, May 31, 2002.

127) Polymers and hydrogels in drug delivery: Design and applications, Inhale Therapeutic Systems, Inc., San Carlos, CA, June 12, 2002.

128) Novel hydrogels in drug delivery, UK/Ireland chapter of the Controlled Release Society (UKICRS) and 139th British Pharmaceutical Conference, Manchester, United Kingdom, September 24, 2002.

129) Nano-structures for delivery of poorly soluble drugs, Nano-biomaterials for drug, gene, and cell therapy, Korea Advanced Institute of Science and Technology, Taejeon, Korea, November 1, 2002.

130) New hydrogels for delivery of poorly soluble drugs and proteins, University of Illinois-Chicago, Chicago, IL, November 20, 2002.

131) Glucose imprints for modulated insulin delivery, Korean Chemical Society, Polymer Chemistry Division, Taejeon, Korea, December 13, 2002.

132) Solvent exchange method: A new process for making reservoir-type microcapsules, 11th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, March 3, 2003.

133) Novel methods of making microcapsules based on the solvent exchange method, AAPS Conference on Advances in Pharmaceutical Processing, Parsippany, NJ, June 19, 2003.

134) Biomimetic materials, Controlled Release Society Annual Meeting, Glasgow, Scotland, July 22, 2003.

135) Solvent exchange method: A new process for making reservoir-type microcapsules, Northeastern University, Boston, MA. September 8, 2003.

136) Oral drug delivery: Scientific challenges vs. product development, Oral Drug Delivery Conference, Boston, MA, September 9, 2003.

137) Recent progresses in fast melting tablets and delivery of poorly soluble drugs, AAPS Chicago Pharmaceutics Discussion Group Meeting, Chicago, IL, October 9, 2003.

138) Hydrotropic polymeric micelle systems for formulation of poorly water-soluble drugs, The 8th European Symposium on Controlled Drug Delivery, Noordwijk aan Zee, The Netherlands, April 7-9, 2004.

139) 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, Kyoto, Japan, May 31, 2004.

140) Nanotechnology: Innovation or rebranding? Debate with Sandy Florence in Pearls of Wisdom, 31st Annual Meeting and Exposition of the Controlled Release Society, Honolulu, HI, June 16, 2004.

141) Hydrotropic polymer systems for poorly soluble drugs, 31st Annual Meeting and Exposition of the Controlled Release Society, Honolulu, HI, June 16, 2004.

142) Nanopolymeric structures for delivery of paclitaxel, School of Pharmacy, University of Kentucky, September 3, 2004.

143) Hydrotropic polymeric nanostructures for delivery of paclitaxel, Nanoparticles. Synthesis, Functionalization and Applications for Targeted Drug Delivery, Cleveland, OH, October 27, 2004.

144) Challenges and strategies in drug delivery from coronary stents, Biointerface 2004, Baltimore, MD, October 28, 2004.

145) Drug-eluting stents, Boston Scientific, Natick, MA, October 29, 2004.

146) Novel methods of making microcapsules based on the solvent exchange method. (Roundtable on Issues in Protein Microencapsulation), 2004 AAPS Annual Meeting, Baltimore, MD, November 10, 2004.

147) Recent advances in drug-eluting stents, Korea Research Institute of Chemical Technology, Taejeon, Korea, November 24, 2004.

148) Polymers in everyday life, LG Household & Heathcare, Taejeon, Korea, November 24, 2004.

149) Recent advances in drug-eluting stents, University of Utah, College of Pharmacy, January 5, 2005.

150) Preparation of PLGA microcapsules by the interfacial solvent exchange method, University of Pittsburgh, January 24, 2005.

151) Hydrotropic polymers for delivery of poorly soluble drugs, Inha University, Incheon, Korea, July 13, 2005.

152) Hydrotropic polymers for delivery of poorly soluble drugs, Boehringer-Ingelheim, Ridgebury, CT, July 20, 2005.

153) Oral drug delivery: Scientific challenges and product development, Annual Meeting of the Pharmaceutical Society of Korea, Seoul, Korea, November 29, 2005.

154) Polymers used in pharmaceutics, The 2006 AAPS PT Arden Conference, West Point, NY, January 25, 2006.

155) Polymer properties for controlled drug delivery, The 2006 AAPS PT Arden Conference, West Point, NY, January 25, 2006.

156) Nano/micro drug delivery systems and cellular uptakes, Symposium on Development of New Radiotherapy Technique Using Nano Drug Delivery System, Asan Medical Center, Seoul, Korea, March 10, 2006.

157) Controlled drug delivery: From macro to nanotechnologies, Institute of Genetics and Molecular Biology, Seoul National University, Seoul, Korea, June 23, 2006.

158) Drug delivery: Evolution into the nanotechnology era, Institute of Bioengineering and Nanotechnology, Republic of Singapore, July 3, 2006.

159) Novel methods for microsphere formulation and manufacture, The CMC and Regulatory Issues for Controlled Release Parenterals Workshop at the 33rd Annual Meeting of the Controlled Release Society, Vienna, Austria, July 29, 2006.

160) Label-free imaging tools for pharmaceutical and biomedical applications: CARS and SPR, Asan Medical Center, Seoul, Korea, September 5, 2006.

161) Nanomedicine: Evolution, revolution, and transformation, Mini Symposium on Molecular Imaging and Nanomedicine, Kyungbook National University, School of Medicine, Daegu, Korea, September 6, 2006.

162) Nanomedicine: Evolution, revolution, and transformation, 1st Purdue-KIST Collaborative Symposium on Biomedical Photonics, Korea Institute of Science and Technology, Seoul, Korea, September 7, 2006.

163) Translational research in drug delivery, LTS Academy, Andernach, Germany, October 6-8, 2006.

164) Imaging study of paclitaxel release from drug-eluting stents, University of Michigan, Ann Arbor, MI, October 19, 2006.

165) Nanotechnologies in drug delivery, NanoBio-Tokyo 2006, The University of Tokyo, December 4-7, 2006.

166) Fast-melting tablet formulations for controlled release and for large dose drugs, Astellas Pharma, Yaizu, Japan, December 7, 2006.

167) Drug-eluting stents: Imaging studies & strategies, Tokyo Women's Medical University Institute of Advanced Biomedical Engineering and Science, Tokyo, Japan, December 8, 2006.

168) Nanomedicine: Evolution, revolution, and transformation, The 2007 National Meeting of the Association for Laboratory Automation, Palm Springs, CA, January 27-31, 2007.

169) Scientific possibilities for combination products of the future, Symposium on Combination Products in Life Science Industries, Cook Inc. International Headquarters, Bloomington, IN, February 2, 2007.

170) Fast-melting tablet formulations for controlled release and for large dose drugs & fast-swelling hydrogels for biomedical applications, Abbott Laboratories, Abbott Park, IL, April 9, 2007.

171) Polymeric micelles for delivery of poorly soluble drugs & microcapsules for delivery of protein drugs, Abbott Laboratories, Abbott Park, IL, April 9, 2007.

172) What's wrong with the new drug delivery systems? CDER VPLS & ONDQA - cTiPS, USFDA, Rockville, MD, April 23, 2007.

173) Fast dissolving tablets - Current development and technologies, OGD, USFDA, Rockville, MD, April 23, 2007.

174) Overview of polymers used in controlled release, China International Pharmaceutical Technologies Conference 2007, Shanghai, China, May 10-14, 2007.

175) Nanomedicine: Evolution, revolution, and transformation, Kazakh National University, Almaty, Republic of Kazakhstan, June 13, 2007.

176) Polymers used in controlled drug delivery, Kazakh National University, Almaty, Republic of Kazakhstan, June 14, 2007.

177) Polymers in nanotechnology, Kazakh National University, Almaty, Republic of Kazakhstan, June 15, 2007.

178) Nanotechnologies in drug delivery, Chungnam National University, Daejeon, South Korea, August 14, 2007.

179) Orally disintegrating tablets: Determination of disintegration time, OGD, USFDA, Rockville, MD, August 21, 2007.

180) Imaging studies of paclitaxel release from drug-eluting stents. The University of Arizona, Department of Aerospace and Mechanical Engineering, Tucson, AZ, November 8, 2007.

181) Hydrotropic polymer micelle for delivery of poorly water-soluble drugs, The 10th European Symposium on Controlled Drug Delivery, Noordwijk aan Zee, The Netherlands, April 2-4, 2008.

182) Hydrotropic micelles for poorly water-soluble drugs, Macromolecular Chemistry Symposia, 101th National Meeting of the Korean Chemical Society, Seoul, Korea, April 17, 2008.

183) Animal models in drug delivery: Indispensables, limitations and alternatives, The 35th CRS Annual Meeting, New York, NY, July 14, 2008.

184) Drug-eluting stents: What need to be done, Kyungpook National University Medical School, Daegu, Korea, September 2, 2008.

185) Bioefficacy studies in drug delivery: Animal models and alternatives, The 2008 KCRS Annual Conference: Research Networking for Future Therapy, Jeju Island, Korea, September 4, 2008.

186) Macro issues with nano/micro particles for drug delivery, Center for Nanoscale Science and Technology, University of Illinois, Urbana-Champaign, October 1, 2008.

187) Hydrotrophic polymer micelles for delivery of poorly soluble drugs, University of Pennsylvania School of Medicine, October 15, 2008.

188) Drug delivery systems: Macro issues of nano/micro formulations, University of Wisconsin, School of Pharmacy, Louis W. Busse Lecture Series, November 13, 2008.

189) Drug-eluting stents: What now? University of Wisconsin, School of Pharmacy, Louis W. Busse Lecture Series, November 14, 2008.

190) Long-term protein delivery: Challenges and opportunities, The 2nd International Quadruple Research Network Symposium - Protein, Gene, Cell Delivery, Hanyang University, Seoul, Korea, December 5, 2008

191) Nanotechnology in drug delivery: Issues & possibilities, Korea Research Institute of Chemical Technology, Taejeon, Korea, December 8, 2008.

192) Nano/micro particles with predefined size and shape, 14th International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, Feb. 15-18, 2009.

193) Delivery of poorly water-soluble drugs: Hydrotropic solubilization and nano/micro-particles, Pfizer, Groton, CT, March 6, 2009.

194) Practical nanotechnology and microfabrication for drug delivery, 2009 International Symposium of the Intelligent Drug Delivery System, Seoul, Korea, April 29, 2009.

195) Aquatemplate method for microparticular drug delivery systems, Sungkyunkwan University, College of Engineering, Suwon, Korea, May 1, 2009.

196) Polymers in drug delivery systems & gastric retention devices, Astellas Pharma, Shizuoka, Japan, May 22, 2009.

197) Drug delivery systems: Basic research and product development, Academy of Pharmaceutical Science and Technology, Japan (APSTJ), Shizuoka, Japan, May 23, 2009.

198) Drug-eluting stents: The future trend, the 7th Asia 3 (China-Japan-Korea) Foresight Symposium on Gene Therapy and Biomaterials, Seoul, Korea, May 26, 2009.

199) Oral delivery of macromolecular drugs: Limitations and possibilities, 2009 World Class University (WCU) Symposium on Drug Delivery and Bioimaging, Daegu, Korea, May 28, 2009.

200) Novel Drug Delivery Systems for Translational Research, Cardiovascular Innovation Seminar Series, Medtronic Cardiovascular, Santa Rosa, CA, August 12, 2009.

201) Nanotechnology in drug delivery, Korea Advanced Institute of Science and Technology, Daejeon, Korea, September 1, 2009.

202) Nano/micro fabrication for drug delivery systems, Green Cross Pharma, Seoul, Korea, September 2, 2009.

203) Nanotechnology in drug delivery, POSTECH, Pohang, Korea, September 3, 2009.

204) Macro issue with nano/micro particles in drug delivery, 2009 International Symposium on Crystal Engineering & Drug Delivery System, Tianjin, China, September 6, 2009.

205) Advances in drug delivery based on nanotechnology, Ajou University, Suwon, Korea, September 10, 2009.

206) Nanotechnology applications for drug delivery, 12th Annual International Conference on Drug Metabolism/Applied Pharmacokinetics, Merrimac, WI, September 17, 2009.

207) A new nanofabrication method designed for scale-up production, 7th International Nanomedicine and Drug Delivery Symposium, Indianapolis, IN, October 5-6, 2009.

208) Advances in nanofabrication in drug delivery, Advanced Polymeric Materials and Technology Symposium (APMT 2010), Jeju, Korea, January 24-27, 2010.

209) The hydrogel template method for nanofabrication of drug delivery particles, The American Society of Mechanical Engineers (ASME)/ the First Global Congress on NanoEngineering for Medicine and Biology (NEMB): Advancing Health Care through Nanoengineering and Computing, Houston, TX, February 8, 2010.

210) Nanofabrication of microstructures for drug delivery using the hydogel template method, Macromolecular Science and Engineering, University of Michigan, Ann Arbor, February 16, 2010.

211) Long-term drug delivery using microfabricated particles, Advanced Technologies and Regenerative Medicine (Johnson & Johnson), Somerville, NJ, April 5, 2010.

212) A (toy) story of drug delivery systems, Sigma Xi Purdue Chapter, West Lafayette, IN, April 14, 2010.

213) Microfabricated particles for controlled drug delivery, Zhejiang University, Department of Chemical and Biochemical Engineering, Hangzhou, China, April 20, 2010.

214) Microfabricated particles for controlled drug delivery, Peking University, Department of Polymer Sciences & Engineering, Bejing, China, April 23, 2010.

215) Development of large dose FDT formulations & microparticulate depot injectables, CKD Pharmaceutical, Seoul, Korea, April 26, 2010.

216) Targeted drug delivery: Essential for further advances in drug delivery, The 9th China-Japan-Korea Foresignt Joint Symposium on Gene Delivery and the International Workshop on Biomaterials 2010, Changchun, Julin, China, June 21, 2010.

217) Drug delivery systems: oral and parenteral formulations, AmorePacific, Suwon, Korea, June 24, 2010.

218) Fabrication of long-term release risperidone-PLGA microsystems, Samyang Corp., Daejeon, Korea, June 25, 2010.

219) Drug-eluting stents with controllable elution kinetics, SIRIC International Symposium 2010, Stent development: Present and Future, Severance Hospital, Seoul, Korea, July 2, 2010.

220) Where have all the smart hydrogels gone? The Annual Controlled Release Society Meeting, Portland, OR, July 14, 2010.

221) A new microfabrication method for delivery of varioust types of drugs, The 19th Shizuoka DDS Conference, Shizuoka, Japan, September 4, 2010.

222) Microstructures for drug delivery using the hydrogel template method, University of Tokyo, Tokyo, Japan, September 6, 2010.

223) Targeted drug delivery: Expected targeting and true targeting, Tokyo Women's University, Tokyo, Japan, September 7, 2010.

224) Wild wild world of drug delivery systems: From macro to nano, Tokyo Institute of Technology, Tokyo, Japan, September 9, 2010.

225) Targeted drug delivery: The next advances to be made, The 5th Global COE International Symposium on Frontier in Biomaterials Science and Technology for Regenerative Medicine and Gene/Drug Delivery, Tokyo Institute of Technology, Tokyo, Japan, September 10, 2010.

226) Drug targeting: Myth, reality, and possibility, Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2010), Suzhou, China, September 15, 2010.

227) Nano-Med: Recent advances in nanotechnology for drug delivery, Suzhou Institute of Nano-Tech and Nano-Bionics, Chinese Academy of Sciences, Suzhou, China, September 16, 2010.

228) Long-term protein delivery: Challenges & opportunities, Genentech, South San Francisco, CA, December 2, 2010.

229) Recent advances in hydrogel drug delivery for biotherapeutics and major hurdles to commercialization, 46th Annual Pharmaceutical Technologies Arden Conference: Pharmaceutical Development of Biologics: Fundamentals, Challenges, and Recent Advances, The Thayer Hotel, West Point, NY, March 8, 2011.

230) Controlled Drug Delivery: Clinically Useful Formulation & Commercial Success, CKD Research Institute, Chonan, Korea, April 27, 2011.

231) Drug delivery: New directions in the new decade, The 10th China-Japan-Korea Foresight Joint Symposium on Gene Delivery and International Symposium on Biomaterials 2011, Gulin, Guangxi, China, May 31, 2011.

232) Controlled drug delivery technologies for clinically useful practical formulations, Changchun Institute of Applied Chemistry, Changchun, China, June 3, 2011.

233) Barriers to overcome for targeted drug delivery to tumors, Drug Delivery and Cancer: Challenges and New Directions for Cancer Therapy, West Lafayette, IN October 10, 2011.

234) The 10Xer's way toward theragnosis, Korea Institute of Science and Technology, Seoul, Korea, November 24, 2011.

235) How smart is a smart hydrogel? Yeongnam University, Daegu, Korea, November 25, 2011.

236) Infinite future of undergraduate students, Korea University, School of Pharmacy, Jochiwon, Korea, November 28, 2011.

237) Targeted drug delivery: myth, reality, & possibility, Department of Pharmaceutical Sciences, University of Tennessee Health Science Center, Memphis, TN, December 12, 2011.

238) Controlled drug delivery: The third generation, International Symposium on Past, Present and Future of Molecular Pharmacokinetics, Hitotsubashi Hall, Tokyo, Japan, January 18, 2012.

239) Targeted drug delivery: myth, reality, & possibility, Department of Mechanical Engineering, University of Minnesota, Minneapolis, MN, March 28, 2012.

240) Nanoadvances in nanotechnology-based drug delivery, KAIST, Daejeon, Korea, April 16, 2012.

241) Drug delivery systems for the new decades: Balance between "*iNew*" and "Me-too" approaches. National Tsing Hua University, Hsinchu, Taiwan, April 26, 2012.

242) Publication of papers for Journal of Controlled Release. Changchun Institute of Applied Chemistry, Chinese Academy of Sciences, Changchun, China, June 1, 2012.

243) How to write good papers for JCR. West China School of Pharmacy, Sichuan University, Chengdu, China, June 2, 2012.

244) The 3rd Generation drug delivery systems: Issues to Resolve. The 9th World Biomaterials Congress, Chengdu, China, June 3, 2012.

245) Politicians, Athletes, Scientists, and *i*CRS. The 39th Annual Meeting of the Controlled Release Society, Quebec, Canada, July 17, 2012.

246) Drug Delivery Systems for the New Decade: Balance between "iNew" and "Me-too" Approaches, the 15th International Biotechnology Symposium, Daegu, Korea, September 17, 2012.

247) The 3rd Generation drug delivery systems: Back to Basics, the 3rd Asymchem Pharmaceutical CMC 2012, Tianjin, China, September 21, 2012.

248) The 10X Research on Drug Delivery, Sungkyunkwan University, Korea, September 24, 2012.

249) The 3rd generation drug delivery systems: Improvement to make, Peking University, Beijing, China, December 1, 2012.

250) Controlled Drug Delivery Systems, CoSci-Med, Harbin, China, December 2, 2012.

251) Controlled drug delivery systems for the new decade, Heilongjiang University, Harbin, China, December 3, 2012.

252) Oral controlled drug delivery systems, Symposium on New Technology Seminar on Extended and Controlled Release Oral Solid Dosage (VIII), Guangzhou, China, December 4, 2012.

253) Controlled release formulations for generics, The 3rd International Forum for Generics, Nanchang, China, December 5-6, 2012.

254) Anti-retroviral delivery systems: New directions in the new decades, NIH National Institute of Allergy and Infectious Diseases, Division of AIDS, Prevention Sciences Program and The Bill and Melinda Gates Foundation. Think Tank on Drug Delivery Systems for HIV Prevension, Washington, DC, February 22, 2013.

255) Controlled drug delivery systems: The third generation, International Conference on Biomaterials Science, Tsukuba, Japan, March 20-22, 2013.

256) Targeted drug delivery: Insights by Professor You Han Bae, Joint Symposium of the 5th Utah-Inha DDS Research Center Symposium and the 7th International Symposium on Intelligent DDS, Incheon, Korea, May 23-24, 2013.

257) The missing components of current drug delivery systems and new approaches, The 4th International Advanced Biomaterials Symposium Changchun, China, September 28-30, 2013.

258) Facing the truth about nanotechnology in drug delivery, Dongguk University, Pharmacy School in Ilsan. October 2, 2013.

259) Controlled drug delivery: new technologies required for the next generation, Symposium on Perspectives on the Future of Drug Delivery Systems, Beijing, China, November 22, 2013.

260) Controlled drug delivery: Challenges and Opportunities, Youbo Pharmaceuticals, Mudanjiang, China. March 10, 2014.

261) The 3rd generation drug delivery systems: Future back, the 8th International Symposium on Intelligent Drug Delivery System, Seoul, Korea, April 24, 2014.

262) Create your own future, Korea University, Jochiwon, Korea, May 28, 2014.

263) Controlled drug delivery: Historical perspective for the future, Ajou University, Suwon, Korea. November 3, 2014.

264) Virtual human, KIST, Seoul, Korea, November 4, 2014.

265) From pills to nanoparticles: The 10X progress in drug delivery research, Korean-American Society in Biotech and Pharmaceuticals (KASBP), Morristown, NJ, November 7, 2014.

266) 30 Years of Research on Drug Delivery: A Personal Reflection, Purdue University Faculty Careers Colloquium, West Lafayette, IN, February 20, 2015.

267) Vacuum SpinSwiper for microfabrication of PLGA microparticles, Sungkyunkwan University, Suwon, Korea, March 24, 2015.

268) Controlled drug delivery: Historical perspective for the next generation, Pharmaceutical Society Japan, Kobe, Japan, March 28, 2015.

269) Drug delivery technologies for the future: Thinking in new boxes, Ashland Inc. Distinguished Lecturer at the University of Kentucky, April 27 2015.

270) Controlled drug delivery systems: Needs for accelerated evolution, the Canadian Biomaterials Society, Toronto, Canada, May 29, 2015.

271) Drug dlivery of the future: Chasing the invisible gorilla, The 1st Annual International Symposium on Bio-Therapeutics Delivery, Seoul, Korea, Septembrer 14, 2015.

272) Sustained depot formulations for parenteral applications, CJ HealthCare, Icheon-si, Gyeonggi-do, Korea, September 18, 2015.

273) PLGA microparticle formulations for long-term drug delivery, Korea University, Jochiwon, Korea, September 21, 2015.

274) Drug dlivery of the future: Chasing the invisible gorilla, Lilly/Purdue Technology Day, Eli Lilly, Indianapolis, IN, October 5, 2015.

275) Controlled Drug Delivery: Historical perspective for the next generation, Sungkyunkwan University, College of Engineering and College of Pharmacy, Suwon, Korea, November 19, 2015.

276) Controlled Drug Delivery: Historical perspective for the future, The Chinese University of Hong Kong, College of Pharmacy, Sha Tin, Hong Kong, March 16, 2016.

277) Lessons learned from Dr. Tsuneji Nagai for the future of drug delivery, the 30th Anniversary Symposium of The Nagai Foundation Tokyo: Link to the Past and Bridge to the Future, Tokyo, Japan, July 7, 2016.

278) Drug Delivery Systems: Achieving Accelerated Evolution, the 10th Israel Controlled Release Society Symposium, Maalot, Israel, September 16, 2016.

279) Drug Delivery Systems: Accelerated Evolution for the Future, Allan S. Hoffman Lecture, University of Washington, Seattle, WA, October 10, 2016.

280) Drug delivery systems: Past successes and future possibilities, the 28th Korean Academy of Science & Technology Symposium: Young Scientists in Drug Delivery- Redirecting the Research Field, KIST, Seoul, Korea, December 7, 2016.

281) PLGA microparticles; Challenges in peptide and protein delivery, Eli Lilly and Company, Indianapolis, IN, March 9, 2017.

282) Center for drug abuse intervention and treatment, National Institute of Drug Abuse, Baltimore, MD, April 7, 2017.

283) The drug delivery field at the inflection point, IDDS-GiRC Joint Symposium, Seoul, Korea, May 25, 2017.

284) The drug delivery field at the inflection point: Why we need to change, University of Utah, Salt Lake City, UT, August 28, 2017.

285) Characterizations of PLGA polymers, FDA Public Workshop on Demonstrating Equivalence of Generic Complex Drug Substances and Formulations: Advances in Characterization and In Vitro Testing, Silver Spring, MD, October 6, 2017.

286) The drug delivery field at the tipping point, Korea University, Jochiwon, Korea, October 20, 2017.

287) Drug delivery systems: Accelerated evolution for the future, Monash University, Melbourne, Australia, November 17, 2017.

288) Preparing manuscripts and patents, University of Auckland, Auckland, New Zealand, November 21, 2017.

289) Bioefficacy and toxicity studies in drug delivery: Animal models & alternatives, in New Zealand-Australia CRS 2017 Joint Workshop on Recent Trends in In-vitro, Ex-vivo and In-vivo Models in Bioactive Delivery, November 22, 2017.

290) Drug delivery systems: Past successes and future possibilities, University of Otago, Dunedin, New Zealand, November 24, 2017.

291) Preparing manuscripts for Journal of Controlled Release, University of Otago, Dunedin, New Zealand, November 24, 2017.

292) The drug delivery field at the inflection point: Time for new thinking, University of Auckland, Auckland, New Zealand, November 27, 2017.

293) Role of drug delivery in drug discovery, University of Auckland, Auckland, New Zealand, November 28, 2017.

294) The drug delivery field at the inflection point: Time to change for the future, University of Southern California, Los Angeles, CA, February 24, 2018.

295) The drug delivery field at the inflection point, The KAST 13th Frontier Scientist Workshop: Future Trends of Biomaterials, University of Utah, Salt Lake City, UT, June 18-19, 2018.

296) A long walk to PLGA. The 2018 Annual Meeting of Controlled Releaes Society, New York, NY, July 22, 2018.

297) The future of the drug delivery field: Lessons learned from Professor Diane Burgess, The Interface between Science and Education. A Celebration of Professor Diane J. Burgess' 60th Birthday, Storrs, CT, August 18, 2018.

298) PLGA microparticles: Very well-known but unexplored formulations, Fifth Symposium of Innovative Polymers for Controlled Delivery, Suzhou, China, September 15, 2018.

299) The drug delivery field at the inflection point: Time to think differently, West China School of Pharmacy, Sichuan University, Chengdu, China, November 5, 2018.

300) The drug delivery field at the inflection point: Time to think differently,E ngineering Research Center in Biomaterials, Sichuan University, Chengdu, China, November 6, 2018. West China School of Pharmacy, Sichuan University, Chengdu, China, November 6, 2018.

301) Create your own future, West China School of Pharmacy, Sichuan University, Chengdu, China, November 6, 2018.

302) One life, one chance, Purdue Korean Faculty Association, West Lafayette, IN, December 14, 2018.

Awards by Graduate students

1) Yoon Yeo: 2002 CRS-3M Drug Delivery Systems Graduate Student Outstanding Research Award in Drug Delivery (Controlled Release Society, July, 2003)

2) Yong Qiu: AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (American Association of Pharmaceutical Scientists, October 2003)

3) Yoon Yeo: AAPS Outstanding Graduate Student Research Award in Pharmaceutical Technologies (American Association of Pharmaceutical Scientists, November 2004)

4) Drug Delivery Special Interest Group Outstanding Contribution to the Society for Biomaterials

   (Eunah Kang: Society for Biomaterials 2007)

Reviewer for Scientific Organizations

1) Reviewer for the Petroleum Research Fund of the American Chemical Society (1991, 1992, 1994, 1997, 2000).

2) Special reviewer for the Medical Research Council of Canada (1991, 1996), and the National Sciences and Engineering Research Council of Canada (1998, 2001).

3) Reviewer for the U.S. Civilian Research & Development Foundation. Regional Experimental Support Center Program 2000-2001 (2000).

4) Reviewer for the Maryland Sea Grant College of the National Office's Sea Grant Technology Program (2002)

5) Reviewer for Canadian Institute of Health Research (2003)

6) Reviewer for Connecticut Innovations (2005)

7) Reviewer for the Netherlands Organisation for Scientific Research (2009)

8) Reviewer for the BMM/CTMM/TIPharma, the Netherlands (2009)

9) Reviewer for Lister Institute Research Prizes, United Kingdom (2012)

Reviewer for Academic Departments

1) University of Minnesota, Department of Pharmaceutics, 1998

2) University of Utah, Department Pharmaceutics and Pharmaceutical Chemistry, 2004.

3) School of Pharmacy at Queen's University Belfast, Belfast, United Kingdom, 2011.

Short Course Instructor

1) Peppas, N.A. and Park, K.: Hydrogels in Biomedical and Pharmaceutial Applications, held at Indianapolis, IN, on April 24-26, 1991.

2) Peppas, N.A. and Park, K.: Hydrogels in Biomedical and Pharmaceutial Applications, held at Purdue University, West Lafayette, IN, on May 5-7, 1992.

National and International Committee Member

1) Program Planning Committee for the American Association of Pharmaceutical Scientists (AAPS) Meeting (Fall, 1987).

2) Scientific Program Committee for the 1990 Controlled Release Society Meeting (July, 1990).

3) Abstract review for the Pharmaceutics and Drug Delivery Section of the American Association of Pharmaceutical Scientists (AAPS) Meeting (Fall, 1991).

4) Program Planning Committee for the Controlled Release Society Symposium to be held in Korea (1992).

5) Controlled Release Society Award Committee in Outstanding Pharm/Ag-Vet Section (1992-1993).

6) Controlled Release Society Award Committee in Graduate Student Research Awards & Young Investigator Research Award (1993-1996)

7) Controlled Release Society Nominations Committee (1993-1996).

8) Controlled Release Society Committee in Ag/Vet Development (1993-1996).

9) Abstract review for the Protein Adsorption Section of the Society for Biomaterials Meeting (1993).

10) Task Force on Global Membership Network of the Controlled Release Society (1993).

11) Controlled Release Society Award Committee in Outstanding Pharm/Ag-Vet Section (1993-1994).

12) Abstract review committee for the 20th Annual Meeting of the Society for Biomaterials (held in Boston, April 5-9, 1994).

13) Advisory Board of the Molecular Modeling Conference (1994)

14) Scientific Program Committee for the 1996 Controlled Release Society Meeting (1994).

15) Chairman of the Global Network Team of the Controlled Release Society (1994-1995).

16) Advisory Panel on Polymeric Excipients, USP (1995-1999)

17) Chairman of the Global Network Committee of the Controlled Release Society (1995-1996).

18) Chairman of the Fellow selection committee of the Pharmaceutics and Drug Delivery (PDD) section of the American Association of Pharmaceutical Scientists (AAPS) (1996-1997).

19) ACS Books Advisory Board (1997-2000)

20) Advisory Panel on Current Drugs (1997-1999)

21) Scientific Advisory Board, International Symposium on the Frontiers in Biomedical Polymers Applications (2000-2001)

22) Scientific Advisory Board, International Symposium on Recent Advances in Drug Delivery Systems (2000-2001)

23) Advisory Panel on Excipients: Substance and Characterization Expert Committee, USP (2000-2005)

24) Scientific Program Committee of the 2nd Pharmaceutical Sciences World Congress (PSWC2004) (2001-2004).

25) Workshop Committee for the Controlled Release Society's Workshop on Optimization of Quality and Performance Attributes of Controlled Release Products, Seoul, Korea (2001-2002)

26) International Advisory Committee of the First International Conference on Medical Implants Bethesda, MD (July 25-28, 2003)

27) Scientific Advisory Board, Third International Nanomedicine and Drug Delivery Symposium (2005)

28) Scientific Advisory Board, European Symposium on Controlled Drug Delivery (2006-)

29) Scientific Advisory Board, China International Pharmaceutical Technologies Conference 2007 (2006-)

30) Scientific Organizing Committee for Micro 2007, The 16th International Symposium on Microencapsulation (2007)

31) International Advisory Board, the 3rd International Conference on Smart Materials, Structures and Systems (2007-2008)

32) International Organizing Committee, Symposium on Innovative Polymers for Controlled Delivery, Suzhou, China, September 14-17, 2010.

33) Nominations Committee for Controlled Release Society, 2010-2011.

34) Symposium Co-Chairman , 4th International Advanced Biomaterials Symposium 2013, September 28-October 2, 2013, Changchun, China.

35) International Committee of the Athens Congress on Computational-Experimental, Scientific-Regulatory Advances in Drug Discovery, Formulation Strategies, Drug Delivery, ADMET for Small Molecules (Generics) and Biotechnological (Biosimilar) Drugs, Athens, Greece, May 30-June 1, 2015.

36) The Annual Meeting Programme Committee for the Controlled Release Society conference in 2015, Edinburgh, Scotland, July 25-29, 2015.

37) The nominating committee of the Controlled Release Society, 2016-2017.

38) The nominating committee of the Controlled Release Society, 2017-2018.

Meeting Organizer

1) The 1989 Scanning Microscopy Meeting on "Colloidal gold: quantitative labeling and new applications," held in Salt Lake City, UT, on May 1-5, 1989.

   Co-organizer: Dr. Ralph Albrecht, University of Wisconsin.

2) The 1994 ACS National Meeting on "First International Symposium on Biorelated Polymers," sponsored by the Division of Polymer Chemistry, held in Washington, D.C., on August 21-25, 1994.

   Co-organizers: Dr. Raphael Ottenbrite, Virginia Commonwealth University, and Dr. Samuel Huang, University of Connecticut.

3) Organizer for the workshops on "Particulate Drug Delivery Systems" and "Development of Hydrogel dosage forms" of the 1996 Controlled Release Society Meeting in Kyoto, Japan on July 11-12, 1996.

4) A member of the organizing committee for the First Asian International Symposium on Polymeric Biomaterials Science, held in Ishikawa, Japan on May 14-16, 1997.

5) KSP and CRS Joint Symposium on Recent Advances in Drug Delivery and Biomaterials, held in Seoul, Korea on September 24-26, 1997.

   Program co-chairman: Seo Young Jeong

6) The 1998 Controlled Release Society Meeting, held in Las Vegas on June 22-24, 1998.

   Program co-chairman: Russell Potts.

7) Program Chairman for "Recent Advances in Controlled Drug Delivery," in The WorldPharm98, held in Philadelphia, PA on September 22-24, 1998.

8) American Chemical Society Symposium on "Drug Delivery in the 21st Century" sponsored by the Division of Polymer Chemistry, held in Anaheim, CA on March 21-25, 1999.

   Co-organizer: Randall Mrsny.

9) The Controlled Release Society Winter Symposia and 11th International Symposium & Exposition on Recent Advances in Drug Delivery Systems, held in Salt Lake City, UT on March 3-6, 2003.

   Co-organizers: Jindrich Kopecek, James Anderson, Martyn Davies, Sung Wan Kim.

10) The workshops on "CMC Regulatory Issues for Controlled Release Parenterals," of the 2006 Controlled Release Society Meeting in Vienna, Austria on July 22, 2006. Co-organizer: Diane Burgess.

11) International Symposium on Recent Advances in Drug Delivery, held in Salt Lake City, UT on February 26-28, 2007.

Co-Chairmen: David Granger and You Han Bae.

12) Program Chairman of the Annual Meeting of the Society for Biomaterials held in Chicago, IL, 2007.

13) Program Chair for the pharma themes (Chemistry for Health: Catalyzing Translational Research) for the ACS Annual Meeting, held in Philadelphia, PA, in August 2008.

14) International Symposium on Recent Advances in Drug Delivery, held in Salt Lake City, UT on February 15-17, 2009.

Co-Chairmen: David Granger and You Han Bae.

15)Drug Delivery and Cancer: Challenges and New Directions for Cancer Therapy, held in West Lafayette, IN on October 10-11, 2011,

   Co-Chairmen: Alex Wei, Donald Berstrom, and Kinam Park.

16) Chair, the Annual Meeting Programme Committee for the Controlled Release Society conference in 2016, Seattle, WA, USA, July 16-20, 2016.

17) Co-Chair, Randy Mrsny, Kinam Park, Isabelle Aubert, and Cornell Stamoran, Chairs. Non-invasive Delivery of Macromolecules Conference 2017, San Diego, CA, USA, February 21-24, 2017.

Chairman at Meetings

1) Chairman of a section on "Artificial Surfaces" at the 1986 Scanning Electron Microscopy Meeting, held in New Orleans, LA, on May 5-9, 1986.

2) Chairman of a section on "Bioadhesives" at the 14th International Symposium on Controlled Release of Bioactive Materials, held in Toronto, Canada, on August 2-5, 1987.

3) Chairman of a session on "Ancillary and Correlative Techniques II - Labeling," at The 7th Pfefferkorn Conference on Science of Biological Specimen Preparation, held in Guildford, England, on September 12-16, 1988.

4) Chairman of a section on "Biopharm I" at the 17th International Symposium on Controlled Release of Bioactive Materials, held in Reno, NV, on July 22-25, 1990.

5) Chaiman of a session on "Vascular Prosthesis" at the 38th Annual Meeting of American Society for Artificial Internal Organs, held in Nashville, TN, on May 7-9, 1992.

6) Chairman of a session on "Fourth International Symposium on Polymeric Drugs and Drug Delivery Systems" at the 204th ACS National Meeting, held in Washington, D.C., on August 24, 1992.

7) Co-Chairman of a session on "Polymers of Biological and Biomedical Significance" at the 204th ACS National Meeting, held in Washington, D.C., on August 26, 1992.

8) Co-Chairman of a session on "Bioadhesives" at the AIChE Annual Meeting, held in Miami Beach, FL, on November 4, 1992.

9) Co-Chairman of a session on "Mathematical and Computer Modeling" at the 22nd International Symposium on Controlled Release of Bioactive Materials, held in Seattle, WA, on July 30-August 2, 1995.

10) Co-Chairman of a session on "Biomaterials and Drug Delivery" at the 42nd Annual Conference of American Society for Artificial Internal Organs, held in Washington, D.C., on May 3, 1996.

11) Chairman of a session on "Transdermal Products Development" at the Third International Symposium on Biomaterials and Drug Delivery Systems, held in Taejeon, Korea, on July 4-5, 1996.

12) Co-Chairman of a section on "Agriculture/Veterinary Applications 1 - Session II" at the 23rd International Symposium on Controlled Release of Bioactive Materials, held in Kyoto, Japan, on July 7-10, 1996.

13) Chairman of a session on "Biorelated Polymers: Advances in Polymeric Drugs and Drug Design" at the 212th American Chemical Society National Meeting, held in Orlando, FL, on August 25-29, 1996.

14) Chairman of a session on "Polymer Design I" at the 8th International Symposium on Recent Advances in Drug Delivery Systems, held in Salt Lake City, UT, on February 24-27, 1997.

15) Chairman of 7 sessions of "Recent Advances in Controlled Drug Delivery" at The WorldPharm98, held in Philadelphia, PA, on September 22-24, 1998.

16) Chairman of a session on "Polymeric Carriers" at the 8th International Symposium on Recent Advances in Drug Delivery Systems, held in Salt Lake City, UT, on February 19-22, 2001.

17) Chairman of a session on "Issues in Protein Microencapsulation" at the AAPS Conference on Advances in Pharmaceutical Processing, held in Parsippany, NJ, on June 19-20, 2003.

18) Co-Chairman of a session on "Colloidal Drug Carriers" at the 32nd Annual Meeting of the Controlled Release Society, held in Miami, FL, on June 18-22, 2005.

19) Co-Chairman of a session on “Industrial Session and Roundtable: From Bench to Bedside” at the NanoDDS 10, held in Omaha, NE, on Oct. 3-5, 2010.

20) Co-Chairman of a session on “New Concepts in Polymer Gene/drug/RNAi Delivery Systems” (SO51-16.2) at the 9th World Biomaterials Congress, held in Chengdu, China on June 3, 2012.

21) Co-Chairman of a session on “Preparation and Biomedical Applications of Bioactive Polymer Materials” (SO52-33 & SO64-33) at the 9th World Biomaterials Congress, held in Chengdu, China on June 3, 2012.

22) Chairman of a Plenary Session by Dr. Kenzo Takada at the Controlled Release Society Meeting in Honolulu, Hawaii, July 22, 2013.

23) Co-Chairman of a session on Parenteral Sustained Release Drug Delivery at the Controlled Release Society Meeting in Honolulu, Hawaii, July 22, 2013.

24) Chairman of a session on Blood-Brain Barrier at the Non-invasive Delivery of Macromolecules Conference 2017, San Diego, CA, USA, February 22, 2017.

25) Co-chairman of Session 4, Fifth Symposium of Innovative Polymers for Controlled Delivery, Suzhou, China, September 16, 2018.

Teaching Responsibility

1) IPPH 363: Basic Pharmaceutics II: Controlled release drug delivery systems (1986-2006, 2009)
2) IPPH 581: Disperse Systems: physicochemical and thermodynamic properties of polymers used in the pharmaceutical area. (1986-1996)
3) IPPH 669: Rate Processes: Rate processes occurring in biological systems. (1987-1995)
4) BMS 517A: Tissue engineering (on biomaterials and drug delivery) (2000)
5) ChE 697C: Biomaterials Science (on biomaterials and drug delivery) (2001)
6) IPPH 690W: (BME695K): Polymers in Pharmaceutical and Biomedical Systems (2000 - 2014)
7) ChE 461: Biomedical Engineering (2008 - 2018)
8) Engr 103: Introduction to Engineering Practice (2008 - 2018)
9) BME 290: Frontiers in Biomedical Engineering (2010)
10) IPPH 100: Orientation Course (2017 - 2018)
11) BME 295/299: BME Research Scholars I (2017)
12) BME 489/490: BME Senior Design (2018)
13) BME 695K: Polymers in Biomedical and Pharmaceutical Systems (2016 -)

Thesis Supervision

1) Donghao Robert Lu - "Protein behavior at the solid-liquid interface."
   He graduated with a Ph.D. degree in August 1990 to become Assistant Professor at Idaho University.

2) Fei-Wen Mao - "Polymer grafting and steric repulsion."
   She graduated with a M.S. degree in April, 1990.

3) Waleed S.W. Shalaby - "Enzyme-digestible hydrogels for oral drug delivery"
   He graduated with a Ph.D. degree in July 1992. He continued his education at the School of Medicine of the University of South Carolina and obtained his M.D. degree in 1996.

4) Mansoor M. Amiji - "Steric repulsion by PEO/PPO/PEO block copolymers"
   He graduated with a Ph.D. degree in August 1992 to become Assistant Professor at School of Pharmacy, Northeastern University.

5) Kalpana R. Kamath - "Albumin grafting by γ-irradiation"
   She graduated with a Ph.D. degree in August 1993 to become Assistant Professor at School of Pharmacy, University of South Dakota.

6) Samuel J. Lee - "Synthesis of sol-gel phase-reversible hydrogels sensitive to glucose"
   He graduated with a Ph.D. degree in December 1994 to work as a research scientist at DuPont Biomedical.

7) Timothy B. McPherson - "Prevention of protein adsorption by PEO surface modification"
He graduated with a Ph.D. degree in December 1995. After working as a postdoc in Bioengineering Department of Purdue University, he became Assistant Professor at College of Pharmacy, Saint Louis University.

8) Aiman A. Obaidat - "Characterization of glucose dependent gel-sol phase transition of the polymeric glucose-concanavalin a hydrogel"
He graduated with a Ph.D. degree in June 1996 to become Assistant Professor at School of Pharmacy. Jordan University of Science and Technology, Irbid, Jordan.

9) Jun Chen - "Superporous hydrogels: Synthesis and applications"
He graduated with a Ph.D. degree in January 1997 to work as a research scientist at Merck.

10) Rosalind Jackson - "Preparation of alginate microparticles by emulsification for oral vaccine delivery"
She graduated with a Ph.D. degree in May 1997 to work as a research scientist at McNeil Consumer Products Company.

11) Seongbong Jo - "Synthesis of applications of silanated poly(ethylene glycol)s"
He graduated with a Ph.D. degree in May 1998.

12) Argaw Kidane - "PEO grafting on biomaterial surfaces using gamma-irradiation"
He graduated with a Ph.D. degree in May 1996 to work at Upjohn Company.

13) Tonglei Li - "Fractal analysis of surface roughness and study of etching mechanism of acetaminophen single crystals"
He graduated with a Ph.D. degree in April 1999 and became an Assistant Professor at University of Kentucky.

14) Richard Gemeinhart - "Properties of superporous hydrogels for drug delivery"
He graduated with a Ph.D. degree in 2000 and became an Assistant Professor at University of Illinois at Chicago.

15) Jung Ju Kim - "Glucose-sensitive phase-reversible hydrogels"
He graduated with a Ph.D. degree in 2001 and became a group leader at Pacific Corporation in Korea.

16) Nam-Jin Baek - "Drug delivery from stents"
Graduated with a Ph.D. degree in July 2002 and became a group leader at Samyang Research Center-USA.

17) Hong Wen-"Atomic force microscopic examination of crystal dissolution patterns."
Graduated with a Ph.D. degree in Septemer 2002. Wyeth Pharmaceutical Inc.

18) Yong Qiu - "Development of elastic superporous hydrogels."
Graduated with a Ph.D. degree in December 2002 and is now with IMPAX Laboratories, Inc.

19) Yoon Yeo-"Solvent exchange method- a novel microencapsulation technique."
Graduated with a Ph.D. degree in November 2003 and is now on the faculty at Purdue University.

20) Mark E. Byrne (NSF IGERT Fellow, Department of Chemical Engineering) - "Glucose sensitive molecules: Applications to biosensors" (Co-advisor with Professor Nicholas Peppas at Department of Chemical Engineering).

Graduated with a Ph.D. degree in 2003 and is now an Assistant Professor at Auburn University.

21) Yourong Fu - “Novel method of making fast dissolving tablets”
Graduated with a Ph.D. degree in 2004 and is now with Akina, Inc.

22) David Henthorn (NSF IGERT Fellow, Department of Chemical Engineering) - "Modeling of novel multi-methacrylate polymerization" (Co-advisor with Professor Nicholas Peppas at Department of Chemical Engineering).
Graduated with a Ph.D. degree in 2004. Assistant Professor at University of Missouri-Rolla.

23) Kimberly Hayden (NSF IGERT Fellow, Department of Chemical Engineering) - "Effect of particle surface characteristics on particle transport" (Co-advisor with Professor Jennifer Sinclair at Department of Chemical Engineering).
Graduated with a Ph.D. degree in 2003 and is now an Assistant Professor at University of Missouri-Rolla.

24) Jay Blachard (NSF IGERT Fellow, Department of Biomedical Engineering) - "Controlled drug delivery using pH-sensitive hydrogels" (Co-advisor with Professor Nicholas Peppas at Department of Chemical Engineering).
August 2000 - December 2002 (Moved to University of Texas at Austin).

25) Grace Jun-Park (NSF IGERT Fellow, Department of Pharmaceutics) - “Surface modified PLGA/carbon nanofiber composites enhance articular chondrocyte functions” (Co-advisor with Professor Tom Webster at Department of Biomedical Engineering).
Graduated with a Ph.D. degree in December 2005 and is with Becton, Dickinson & Co. (BD) at Franklin Lakes, NJ.

26) Seonghoon Jeong- “Sustained release of fast-melting tablets using various polymer coated ion-exchange resin complexes”
Graduated with a Ph.D. degree in 2005. Wyeth Pharmaceuticals
Professor at Busan National University in Korea.

27) Connie Paul (NSF IGERT Fellow, Department of Pharmaceutics)- “The microenvironment-controlled encapsulation (mice) process for drug delivery” Co-advisor with Professor Paul Robinson at School of Veterinary Sciences).
Graduated with a Ph.D. degree in August 2006 and is currently an associate scientist with Elan Pharmaceuticals.

28) Eunah Kang-“Drug eluting stent and its characterization by coherent anti-Stokes Raman scattering microscopy”
Graduated with a Ph.D. degree in Biomedical Engineering in 2007
A postdic at Korea Institute of Science and Technology.

29) Mingli Ye- “Factors controlling the microcapsules prepared by the solvent exchange method”
Graduated with a Ph.D. degree in 2008.
A postdoctoral research associate with the Engineering Research Center for Structure Organic Particulate Systems, School of Chemical Engineering, Purdue University.

30) Kwang Su Seo - "Novel ultrasonic atomizer approach for making microcapsules"
Graduated with a master’s degree in Biomedical Engineering in 2006.
A Ph.D. graduate student at University of Akron.

31) Kumar Vedantham - "Development of two-drug eluting stents"
August 2005 - October 2009
Postdoc training at Mechanical Engineering and Engineering Science Department, The University of North Carolina at Charlotte.

32) Somali Chaterji - "Endothelial cell culture on smooth muscle cell surface"
August 2005 - December 2009.

33) Ji Young Kim - "Hydrotropic solubilization of poorly soluble drugs"
January 2006 -August 2009
LG Life Science.

34) Jutarat Kitsongsermthon - "Multiple drug release from stents"
August 2006 –October 2011.

35) Namho Kim - "Drug release for promoting endothelial cell growth"
August 2008 - July 2010.

35) Ying Lu- "Drug-eluting stents using nanofabricated drug crystals"
July 2009 - 2013.

36) Yuanzu He- "Effect of microparticle shape and size on cell endocytosis"
July 2010 - 2012.

37) Crystal Soo Jung Shin: "Nanofabrication of anticancer drug delivery systems"
January 2010 - June 2014.

38) Matthew McDermot: "An evaluation of tetramethyl orthosilicate as a vehicle for anti-inflammatory delivery after microelectrode implantation"
July 2011 - present (Co-advisor: Professor Kevin Otto).

39) Mark Hamilton- "Blood glucose detection from exhaled breath condensate"
May 2012 - May 2014 (Co-advisor: Professor Ann Rundell).

40) Ben Kline - "Interplay between polymer and solvent in microparticle formulation"
July 2012 - May 2014.

41) Heui Chang Lee- "Device design factors for enhancing the functionality of chronic intracortical microelectrodes"
July 2012 - December 2016 (Co-advisor: Professor Kevin Otto).

Post-docs and visiting scientists

1) Professor Chang-Koo Shim, Ph.D., November, 1988 - October, 1989.
2) Yin-Chao Tseng, Ph.D., July, 1989 - June, 1992.
3) Annamaria Paparella, Ph.D., October, 1993 - May, 1994.
4) Professor Sung-Ju Hwang, Ph.D., June, 1996 - June, 1998.
5) Jin-Chul Kim, Ph.D., July, 1997 - June, 1999.
6) Professor Ki-Young Lee, Ph.D., June, 1998 - September, 1998.
7) Won-Moon Choi, Ph.D. October, 1998 - September, 2000

8) Professor Jin-Ho Lee, Ph.D. March, 1999 - February, 2000
9) Hasoo Seong, Ph.D. November 1999 - November 2000
10) Yong Keun Chang, Ph.D., March 2000 - August 2000
11) Ghanashyam Acharya, Ph.D. March 2000 - February 2001
12) Jaehwi Lee, Ph.D. April 2000 - February 2004
13) Dukjoon Kim, Ph.D. January 2001- July 2002
14) Sang Cheon Lee, Ph.D. March 2001- December 2003
15) Hossein Omidian, Ph.D., March 2001- April 2002
16) Shi Cheng Yang, Ph.D., May 2001- June 2003
17) Tooru Ooya, Ph.D., September 2001- September 2002
18) Tomohirro, Konno, October, 2001
19) Seon Haeng Cho, Ph.D., October 2001- December 2002
20) Jong-Duk Kim, Ph.D. October 2001-September 2002
21) Byoung Yoon Kim, December 2001 - June 2002
22) Seung Rim Yang, July 2002 - December 2002
23) Jae Hyun Jeong, July 2003-December 2003
24) Susumu Kimura, Ph.D., August 2003-February 2005
25) Kang Moo Huh, Ph.D., December 2003 - October 2004
26) Jae Hyung Park, Ph.D., March 2004 - August 2005
27) Ji-Young Kim. M.S., June 2004 - January 2005
28) Sangyoup Lee, June 2004 – June 2006
29) Woo-Kyung Lee, Ph.D., July 2004 - February 2005
30) Dae Keon Choi, Ph.D., September 2004 - January 2006
31) Bong Sik Jeon, March 2005 - August 2005
31) Il Keun Kwon, Ph.D., March 2005 - February 2007
32) Woo Sun Shim, Ph.D., August 2005 - September 2006
33) Seonghoon Jeong, Ph.D., December 2005 - March 2006
34) Je Kyo Jeong, Ph.D. March 2006 - September 2006
35) Hatem Hegazy, March 2006 - September 2006
36) Sungwon Kim, Ph.D., August 2006 – September 2011
37) Xiaohong Wei, Ph.D., October 2006 - September 2007
38) Jong-Ho Kim, Ph.D. March 2007 - June 2008
39) Oju Jeon, Ph.D., April 2007 – March 2008
40) Yuuki Takaishi, October 2007 – September 2008
41) Ghanashyam Acharya, Ph.D. September 2007 –March 2011
42) Kyungmin Shin. August 2008 - July 2009
43) Kyeongsoon Park, Ph.D. August 2008 - July 2009
44) Nazgul Myzhanova, October - November 2008
45) Ayauzhan Tumabayeva, October - November 2008
46) Da-Won Oh. February 2009 - August 2009

47) Sungwon An. May 2009 - April 2010
48) Yeon Hee Yun, July 2009 - November 2009
49) Yoshio Kuno, Ph.D., October 2009 - September 2010
50) Professor Sung Soo Han, Ph.D. February 2010 - January 2011
51) Jung Min Cho, May 2010 - July 2011
52) Ki Young Choi, Ph.D.. August 2010 - July 2011
53) Byung Kook Lee, Ph.D., January 2011- August 2017
54) Yeon Hee Yun, Ph.D., May 2011 – January 2018
55) Professor Wenping Wang, Ph.D., November 2011 - November 2012
56) Byung-Dong Hahn, Ph.D., February 2012 – January 2013
57) Professor Yuhua Ma, M.S., March 2012 – February 2013
58) Professor Shengjiu Gu, Ph.D., March 2012 - September 2012
59) Professor Senlin Shi. Ph.D., June 2012 - May 2013
60) Professor Zhongqiong Qu, Ph.D., August 2012 -July 2013
61) Professor Nian-Ping Feng, Ph.D., August 2012 - July 2013
62) Professor Fei Qiu, Ph.D., September 2012 - August 2013
63) Jinhyun Hannah Lee, Ph.D., March 2013 - February 2014.
64) Professor Juqun Xi, Ph.D., August 2013 – August 2014
65) Professor Xueying Yan, Ph.D., February 2014 – January 2015
66) Yongjuan Shi, September 2014 - September 2015
67) Professor Xu Lu, Ph.D., October 2014 - October 2015
68) Andrew Otte, Ph.D., October 2014 -
69) Youngnam Lee, M.S., November 2014 - October 2016
70) Bong Kwan Soh, M.S., November 2014 -
71) Chang Geun Song, M.S., November 2014 - December 2015
72) Yahira Baez, Ph.D., November 2014 - October 2016
73) Professor Ming-Tao Zhang, PhD, December 2014 - August 2017
74) Seungman Park, Ph.D., December 2014 - November 2015
75) Ayauzhan Tumabayeva, M.S., January 2015 - December 2015
76) Professor Zhuangzhi Zhi, Ph.D., January 2015 - January 2016
77) Ellina Mun, Ph.D., November 2015 - September 2017
78) Daekoo Woo, M.S., October 2016 - August 2017
79) Haoying Yu, M.S., Februay 2017 - June 2017
80) Gwang Heum Yoon, M.S., October 2016 -
81) Dijia Yu, M.S., November 2017 - November 2018
82) Shweta Sharma, Ph.D., February 2018 -
83) Farrokh Sharifi, Ph.D., August 2018 -

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