

CURRICULUM VITA

KINAM PARK

Purdue University
Weldon School of Biomedical Engineering
206 S. Martin Jischke Drive
West Lafayette, IN 47907-2032

Tel: 765 494-7759
E-mail: kpark@purdue.edu
<http://kinam.com/>

March 2018

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)
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 Pharmacol 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-)

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., Albrecht, 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 fluorescence 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., Lehmyer, 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.
- 83) Kidane, A., Lantz, G.C., Jo, S., and Park, K.: Surface modification with PEO-containing triblock copolymer for improved biocompatibility: In vitro and ex vivo studies. *J. Biomater. Sci. Polymer Edn.*, 10 (10): 1089-1105, 1999.
- 84) Dewanjee, M.K., Gross, D.R., Zhai, P., Lanzo, S., Shim, H., Park, K., Schaeffer, D.J., and Twardock, R.: Thrombogenicity of polyethylene oxide bonded Dacron sewing ring in a mechanical heart valve, *J. Heart Valve Disease*, 8(3): 324-330, 1999.
- 85) Bowersock, T.L., HogenEsch, H., Suckow, M., Guimond, P., Martin, S., Borie, D., Torregrosa, S., Park, H., and Park, K.: Oral vaccination of animals with antigens encapsulated in alginate microspheres. *Vaccine* 17: 1804-1811, 1999.
- 86) Chen, J., Blevins, W.E., Park, H., and Park, K.: Gastric retention properties of superporous hydrogel composites, *J. Control. Release*, 64: 39-51, 2000.
- 87) Suckow, M.A., Park, K., Siger, L., Turek, J., Borie, D., Van Horn, D., Taylor, A., Park, H., and Bowersock, T.: Immunogenicity of antigens in boiled alginate microspheres, *J. Biomater. Sci. Polymer Edn.*, 11: 55-68, 2000.
- 88) Chen, J. and Park, K.: Synthesis and characterization of superporous hydrogel composites, *J. Control. Release*, 65: 73-82, 2000.
- 89) Jo, S. and Park, K.: Surface modification using silanated poly(ethylene glycol)s, *Biomaterials*, 21(6): 605-616, 2000.
- 90) Kidane, A., McPherson, T., Shim, H.S., and Park, K.: Surface modification of polyethylene terephthalate using PEO-polybutadiene-PEO triblock copolymers, *Colloids and Surfaces B: Biointerfaces*, 18: 347-353, 2000.
- 91) Gemeinhart, R., Park, H., and Park, K.: Pore structure of superporous hydrogels, *Polym. Adv. Technol.* 11: 617-625, 2000.
- 92) Li, T., Morris, K.R., and Park, K.: Mutual influence of solvent and crystalline supramolecular structure on the formation of etched patterns on acetaminophen single crystals: A study with atomic force microscope and computer simulation, *J. Phy. Chem. B*, 104 (9): 2019-2032, 2000.
- 93) Gemeinhart, R., Chen, J., Park, H., and Park, K.: pH-sensitivity of fast responsive superporous hydrogels, *J. Biomater. Sci. Polymer Edn.* 11: 1371-1380, 2000.
- 94) Park, K., Shim, H.S., Dewanjee, M.K., and Eigler, N.L.: In vitro and in vivo studies of PEO-grafted blood-contacting cardiovascular prostheses, *J. Biomater. Sci. Polymer Edn.* 11: 1121-1134, 2000.
- 95) Chen, J. and Park, K.: Synthesis of fast-swelling, superporous sucrose hydrogels, *Carbohydrate Polymers*, 41: 259-268, 2000.
- 96) Li, T. and Park, K.: Monte Carlo simulation of grafted poly(ethylene oxide) chains, *Computational and Theoretical Polymer Science*, 11(2): 133-142, 2001.
- 97) Baek, N., Park, J.H., Bae, Y.H., and Park, K.: Control of swelling rate of superporous hydrogels, *J. Bioact. Compat. Polymers*, 16: 47-57, 2001.

- 98) Li, T., Morris, K., and Park, K.: Influence of tailor-made additives on etching patterns of acetaminophen single crystals, *Pharm. Res.*, 18: 398-402, 2001.
- 99) Kim, J.J. and Park, K.: Glucose-binding property of PEGylated concanavalin A, *Pharm. Res.* 18:794-799, 2001.
- 100) Kim, J.J. and Park, K.: Immobilization of concanavalin A to glucose-containing polymers, *Macromolecular Symposia*, 172: 95-102, 2001.
- 101) Yeo, Y., Baek, N.J., and Park, K.: Microencapsulation methods for delivery of protein drugs, *Biotechnol. Bioprocess Eng.*, 6:213-230, 2001.
- 102) Kim, J.J. and Park, K.: Modulated insulin delivery from glucose-sensitive hydrogel dosage forms, *J. Control. Release* 77:39-47, 2001.
- 103) Badylak, S.F., Park, K., Peppas, N.A., McCabe, G., and Yoder, M.: Marrow-derived cells populate scaffolds composed of xenogeneic extracellular matrix, *Experimental Hematology*, 29: 1310-1318, 2001.
- 104) Gemeinhart, R., Park, H., and Park, K.: Effect of compression on fast swelling of poly(acrylamide-co-acrylic Acid) superporous hydrogels, *J. Biomed. Mater. Res.* 55:54-62, 2001.
- 105) Li, T., Wen, H., Park, K., and Morris, K.R.: How specific interactions between acetaminophen and its additive 4-methylacetanilide affect growth morphology: Elucidation using etching patterns, *Crystal Growth & Design*, 2(3): 185-189, 2002.
- 106) Mun, G.A., Nurkeeva, Z.S., Khutoryanskiy, V.V., Azhgozhinova, G.S., Shaikhutdinov, E.M., and Park, K.: Collapse of poly(methacrylic acid) hydrogels in respond to simultaneous stimulation by electric field and complex formation, *Macromolecular Rapid Communications*, 23: 965-967, 2002.
- 107) Kim, J.C., Park, K., and Thompson, D.H.: Synthesis of tris(amino acid)-substituted α -cyclodextrin derivatives, *Macromolecular Chemistry Symposium*, 15(4): 303-312, 2002.
- 108) Suckow, M.A., Jarvinen, L.Z., HogenEsch, H., Park, K., and Bowersock, T.L.: Immunization of rabbits against a bacterial pathogen with an alginate microparticle vaccine, *J. Control. Release.*, 85: 227-235, 2002.
- 109) Seong, H., Lee, H.-B., and Park, K.: Glucose binding to molecularly imprinted polymers, *J. Biomater. Sci. Polymer Edn.* 13: 637-649, 2002.
- 110) Byrne, M.E., Park, K., and Peppas, N.A.: Molecular imprinting within hydrogels, *Adv. Drug Del. Rev.* 54: 149-161, 2002.
- 111) Li, T., Park, K., and Morris, K.R.: Understanding the formation of etching patterns using a refined Monte Carlo simulation model, *Crystal Growth & Design*, 2(3): 177-184, 2002.
- 112) Omidian, H. and Park, K.: Experimental design for the synthesis of polyacrylamide superporous hydrogels, *J. Bioact. Compat. Polymers*, 17: 433-450, 2002.
- 113) Hayden, K.S., Park, K., and Sinclair, J.L.: Effect of particle characteristics on particle pickup velocity, *Powder Technology*, 131: 7-14, 2003.
- 114) Nurkeeva, Z.S., Mun, G.A., Khutoryanskiy, V.V., Bitekenova, A.B., Dzhusupbekova, A.B., and Park, K.: Soluble and cross-linked hydrophilic films based on compositions of poly(acrylic acid) with poly(2-hydroxyethyl vinyl ether) for controlled release of drugs, *J. Appl. Polym. Sci.*, 90:137-142, 2003.
- 115) Lee, J., Acharya, G., Lee, S.C., and Park, K.: Hydrotropic solubilization of paclitaxel: Analysis of chemical structures for hydrotropic property, *Pharm. Res.*, 20: 1022-1030, 2003.
- 116) Cho, Y.W., Kim, J.D., and Park, K.: Polycation gene delivery systems: Escape from endosomes to cytosol, *J. Pharm. Pharmacol.*, 55: 721-734, 2003.

- 117) Seong, H., Choi, W.-M., Kim, J.-C., Thompson, D.H., and Park, K.: Preparation of liposomes with glucose binding sites: liposomes containing di-branched amino acid derivatives, *Biomaterials*, 24 (24): 4487-4493, 2003.
- 118) Qiu, Y. and Park, K.: Superporous IPN hydrogels having enhanced mechanical properties, *AAPS PharmSciTech*, 4(4): Article 51, 2003 (<http://www.aapspharmscitech.org/view.asp?art=pt040451>).
- 119) Ooya, T., Lee, J., and Park, K.: Effects of ethylene glycol-based graft, star-shaped, and dendritic polymers on solubilization and controlled release of paclitaxel, *J. Control. Release*, 93: 121-127, 2003.
- 120) Yeo, Y., Basaran, O., and Park, K.: A new process for making reservoir-type microcapsules using ink-jet technology and interfacial phase separation, *J. Control. Release*, 93: 161-173, 2003.
- 121) Yang, S.R., Jeong, J.H., Park, K., and Kim, J.-D.: Self-aggregates of hydrophobically modified poly(2-hydroxyethyl aspartamide) in aqueous solution, *Colloid & Poly. Sci.* 281: 851-858, 2003.
- 122) Finkelstein, A., Mcclean, D., Kar, S., Takizawa, K., Vargeese, K., Baek, N., Park, K., Fishbein, M.C., Makkar, R., Litvack, F., and Eigler, N.L. Local drug delivery via a coronary stent with programmable release pharmacokinetics. *Circulation* 107: 777-784 2003.
- 123) Lee, S.C., Acharya, G., Lee, J., and Park, K.: Hydrotropic polymers: Synthesis and characterization of polymers containing picolylnicotinamide moieties, *Macromolecules*, 36: 2248-2255, 2003.
- 124) Kim, D., Seo, K., and Park, K.: Polymer composition and acidification effects on the swelling and mechanical properties of poly(acrylamide-co-acrylic acid) superporous hydrogels, *J. Biomater. Sci. Polymer Edn.* 15: 189-199, 2004.
- 125) Wen, H., Li, T., Morris, K.R., and Park, K.: How solvents affect acetaminophen etching pattern formation: interaction between solvent and acetaminophen at solid/liquid interface, *J. Phys. Chem. B.*, 108(7): 2270-2278, 2004.
- 126) Yang, S., Fu, Y., Jeong, S.H., and Park, K.: Application of poly(acrylic acid) superporous hydrogel microparticles as a super-disintegrant in fast-disintegrating tablets, *Journal of Pharmacy and Pharmacology*, 56: 429-436, 2004.
- 127) Yang, S., Park, K., and Rocca, J.G.: Semi-interpenetrating polymer network superporous hydrogels based on poly(3-sulfopropyl acrylate, potassium salt) and poly(vinyl alcohol): synthesis and characterization, *J. Bioact. Compat. Polymers*, 19: 81-100, 2004.
- 128) Baek, N., Lee, J., and Park, K.: Aqueous N',N'-diethylnicotinamide (DNA) solution as a medium for accelerated release study of paclitaxel, *J. Biomater. Sci. Polymer Edn.*, 15: 527-542, 2004.
- 129) Cho, Y.W., Lee, J., Lee, S.C., Huh, K.M., and Park, K.: Hydrotropic agents for study of in vitro paclitaxel release from polymeric micelles, *J. Control. Release*, 97: 249-257, 2004.
- 130) Mun, G.A., Khutoryanskiy, V.V., Akhmetkalieva, G.T., Shmakov, S.N., Dubolazov, A.V., Nurkeeva, Z.S., and Park, K.: Interpolymer complexes of poly(acrylic acid) with poly(2-hydroxyethyl acrylate) in aqueous solutions, *Colloids Polym. Sci.*, 283: 174-181, 2004.
- 131) Yeo, Y., Chen, A.U., Basaran, O.A., and Park, K.: Solvent exchange method: a novel microencapsulation technique using dual microdispensers, *Pharm. Res.*, 21(8): 1419-1427, 2004.
- 132) Wen, H., Li, T., Morris, K.R., and Park, K.: Dissolution study on aspirin and α -glycine crystals, *J. Phys. Chem. B.*, 108: 11219-11227, 2004.
- 133) Yeo, Y. and Park, K.: A new microencapsulation method using an ultrasonic atomizer based on interfacial solvent exchange, *J. Control. Release*, 100: 379-388, 2004.

- 134) Ooya, T., Lee, J., and Park, K.: Hydrotropic dendrimers of generations 4 and 5: Synthesis, characterization, and hydrotropic solubilization of paclitaxel, *Bioconjugate Chem.*, 15: 1221-1229, 2004.
- 135) Yeo, Y. and Park, K.: Characterization of reservoir-type microcapsules made by the solvent exchange method, *AAPS PharmSciTech*, 5 (4): Article 52 (8 pages), 2004 (<http://www.aapspharmsci.org>).
- 136) Fu, Y., Yang, S., Jeong, S.H., Kimura, S., and Park, K.: Orally fast disintegrating tablets: Development, technologies, taste-masking and clinical studies, *Critical Reviews in Therapeutic Drug Carrier Systems*, 221: 1-44, 2004.
- 137) Yeo, Y. and Park, K.: Control of encapsulation efficiency and initial burst in polymeric microparticle systems, *Archives of Pharmacal Research*, 27: 1-12, 2004.
- 138) Kim, D.J. and Park, K.: Swelling and mechanical properties of superporous hydrogels of poly(acrylamide-co-acrylic acid)/polyethylenimine interpenetrating polymer network, *Polymer* 45: 189-196, 2004.
- 139) Huh, K.M., Lee, S.C., Cho, Y.W., Lee, J., Jeong, J.H., and Park, K.: Hydrotropic polymer micelle system for delivery of paclitaxel, *J. Control. Release*, 101: 59-68, 2005.
- 140) Omidian, H., Rocca, J.G., and Park, K.: Advances in superporous hydrogels, *J. Control. Release*, 102: 3-12, 2005.
- 141) Park, G.E., Pattison, M.A., Park, K., and Webster, T.J.: Accelerated chondrocyte functions on NaOH-treated PLGA scaffolds, *Biomaterials*, 26: 3075-3082, 2005.
- 142) Park, J., Ye, M., and Park, K.: Biodegradable polymers for microencapsulation of drugs, *Molecules*, 10: 146-161, 2005.
- 143) Huh, K., Baek, N., and Park, K.: Enhanced swelling kinetics of poly(ethylene glycol)-grafted superporous hydrogels, *J. Bioact. Compt. Polymers*, 20:231-243, 2005.
- 144) Jeong, J.H., Kang, H.S., Yang, S.R., Park, K., and Kim, J.-D.: Biodegradable poly(asparagine) grafted with poly(caprolactone) and the effect of substitution on self-aggregation, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 264: 187-194, 2005.
- 145) Ooya, T., Huh, K.M., Saitoh, M., Tamiya, E., and Park, K.: Self-assembly of cholesterol-hydrotropic dendrimer conjugates into micelle-like structure: Preparation and hydrotropic solubilization of paclitaxel, *Science and Technology of Advanced Materials*, 6: 452-456, 2005.
- 146) Henthorn, K., Park, K., and Curtis, J.S.: Measurement and prediction of pressure drop in pneumatic conveying: Effect of particle characteristics, mass loading, and Reynolds number, *Industrial & Engineering Chemistry Research*, 44: 5090-5098, 2005.
- 147) Wen, H., Morris, K.R., and Park, K.: Study on the interactions between polyvinylpyrrolidone (PVP) and acetaminophen crystals: partial dissolution pattern change, *J. Pharm. Sci.*, 94: 2166-2174, 2005.
- 148) Wen, H., Morris, K.R., and Park, K.: Hydrogen bonding interactions between adsorbed polymer molecules and crystal surface of acetaminophen, *J. Colloid Interf. Sci.*, 290: 325-335, 2005.
- 149) Jeong, S.H., Fu, Y., and Park, K.: Frosta[®]: A new technology for making fast-melting tablets, *Expert Opinion on Drug Delivery*, 2(6): 1107-1116, 2005.
- 150) Fu, Y., Jeong, S.H., and Park, K.: Fast-melting tablets based on highly plastic granules, *J. Control. Release*, 109: 203-210, 2005.
- 151) Kim, B.-Y., Jeong, J.H., Park, K., and Kim, J.-D.: Bioadhesive interaction and hypoglycemic effect of insulin-loaded lectin-microparticle conjugates in oral insulin delivery system, *J. Control. Release*, 102: 525-538, 2005.

- 152) Lee, S.C., Cho, Y.W., and Park, K.: Control of thermogelation properties of hydrophobically-modified methylcellulose, *J. Bioact. Compt. Polymers*, 20: 5-13, 2005.
- 153) Park, H., Park, K., and Kim, D.: Preparation and swelling behavior of chitosan-based superporous hydrogels for gastric retention application, *J. Biomed. Mater. Res.* 76A: 144–150, 2006.
- 154) Jeong, J.H., Cho, Y.W., Jung, B., Park, K. and Kim, J-D.: Self-assembled nanoparticles of ribozymes with poly(ethylene glycol)-*b*-poly(l-lysine) block copolymers, *Japanese Journal of Applied Physics*, 45: 591-595, 2006.
- 155) Yeo, Y. and Park, K.: A new microencapsulation technique based on the solvent exchange method, *ACS Symp. Ser.*, 923: 242-252, 2006.
- 156) Fu, Y., Jeong, S.H., Callihan, J., Kim, J., and Park, K.: Preparation of fast-dissolving tablets based on mannose, *ACS Symp. Ser.*, 924: 340-351, 2006
- 157) Acharya, G. and Park, K.: Stent coatings for drug delivery, *Advanced Drug Delivery Reviews*, 58 (3): 387-401, 2006.
- 158) 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, *Mol. Pharm.*, 3: 135-143, 2006.
- 159) Acharya, G. Park, K., and Thompson, D.H.: Synthesis and evaluation of α -cyclodextrin-aldonamide conjugates for D-glucose recognition, *Journal of Drug Delivery Science and Technology*, 16(1): 45-48, 2006.
- 160) Omidian, H., Rocca, J.G., and Park, K.: Elastic superporous hydrogel hybrid of polyacrylamide and sodium alginate, *Macromol. Biosci*, 6: 703-710, 2006.
- 161) Kwon, I.K., Hegazy, H., and Park, K.: Controlled drug delivery: Transition to nanosystems, *Biomaterials Research*, 10 (3): 133-144, 2006.
- 162) Haddish-Berhane, N., Jeong, S.H., Haghghi, K., and Park, K.: Modeling film-coat non-uniformity in polymer coated pellets: A stochastic approach, *Int. J. Pharm.* 323: 64-71, 2006.
- 163) Kang, E., Wang, H., Kwon, I.K., Robinson, J., Park, K. and Cheng, J-X.: In situ visualization of paclitaxel distribution and release by coherent anti-Stokes Raman scattering microscopy, *Anal. Chem.*, 78: 8036-8043, 2006.
- 164) Mun, G.A., Nurkeeva, Z.S., Akhmetkalieva, G.T., Shmakov, S.N., Khutoryanskiy, V.V., Lee, S.C., and Park, K.: Novel temperature-responsive water-soluble copolymers based on 2-hydroxyethylacrylate and vinyl butyl ether and their interactions with poly(carboxylic acids). *Journal of Polymer Science: Part B: Polymer Physics*, 44: 195–204, 2006.
- 165) Lee, S.C., Huh, K.M., Lee, J., Cho, Y.W., Galinsky, R.E., and Park, K.: Hydrotropic polymeric micelles for enhanced paclitaxel solubility: In vitro and in vivo characterization, *Biomacromolecules*, 8: 202-208, 2007.
- 166) Im, S.J., Choi, Y.M., Subramanyam, E. Huh, K.M., and Park, K.: Synthesis and characterization of biodegradable elastic hydrogels based on poly(ethylene glycol) and poly(ϵ -caprolactone) blocks, *Macromolecular Research*, 15 (4): 363-369, 2007.
- 167) Jeong, S.H., Berhane, N.H., Haghghi, K., and Park, K.: Drug release properties of polymer coated ion-exchange resin complexes: Experimental and theoretical evaluation, *J. Pharm. Sci.*, 96: 618-632, 2007.
- 168) Omidian, H., Park, K., and Rocca, J.G.: Recent development in superporous hydrogels, *J. Pharm. Pharmacol.*, 59: 317-327, 2007.

- 169) Mun, G.A., Nurkeeva, Z.S., Beissegul, A.B., Dubolazov, A.V., Urkimbaeva, P.I., Park, K., and Khutoryanskiy, V.V.: Temperature-responsive water-soluble copolymers based on 2-hydroxyethyl acrylate and butyl acrylate, *Macromol. Chem. Phys.* 208: 979–987, 2007.
- 170) Park, K.: Nanotechnology: What it can do for drug delivery, *J. Control. Release*, 120: 1-3, 2007.
- 171) Hyun, H., Kim, Y.H., Lee, J.W., Kim, M.S., Khang, G., Park, K., Lee, H.B.: In vitro and in vivo release of albumin from MPEG-PCL diblock copolymers as an in situ gel forming carrier, *Biomacromolecules*, 8: 1093-1100, 2007.
- 172) Kang, E., Park, J-W., McClellan, S., Kim, J-M., Holland, D., Lee, G.U., Franses, E., Park, K., and Thompson, D.H.: Specific adsorption of histidine-tagged proteins on silica surfaces modified with Ni²⁺:NTA-derivatized poly(ethylene glycol), *Langmuir*, 23: 6281-6288, 2007.
- 173) Kang, E., Robinson, J., Park, K., and Cheng, J-X.: Paclitaxel distribution in poly(ethylene glycol) / poly(lactide-co-glycolic acid) blends and its release visualized by coherent anti-Stokes Raman scattering microscopy, *J. Control. Release*, 122: 261-268, 2007.
- 174) Chaterji, S., Kwon, I.K., and Park, K.: Smart polymeric gels: Redefining the limits of biomedical devices, *Prog. Polym. Sci.*, 32: 1083-1122, 2007.
- 175) Lee, S-Y., Snider, C., Park, K., and Robinson, J.P.: A compound jet instability in a microchannel for mononuclear compound drop formation, *J. MicroMech. Microeng.*, 17: 1558-1566, 2007.
- 176) Kang, E., Lee, S.C., and Park, K.: Layer-by-layer assembly of poly(lactic-co-glycolic acid)-b-poly(l-lysine) copolymer micelles, *NanoBiotechnology*, 3(2): 96-103, 2007.
- 177) Park, J.S., Woo, D.G., Sun, B.K., Chung, H-M., Im, S.J., Choi, Y.M., Park, K., Huh, K.M., and Park, K-H.: In vitro and in vivo test of PEG/PCL-based hydrogel scaffold for cell delivery application, *J. Control. Release*, 124: 51-59, 2007.
- 178) Min, H.S., Lee, H.J., Lee, S.C., Kang, K.H., Lee, J., Park, K., and Huh, K.M.: Aqueous solubilization of paclitaxel using hydrotropic polymer micelle, *Key Engineering Materials*, 342-343: 421-424, 2007.
- 179) Choi, Y.M., Im, S.J., Myung, S-W., Choi, H-S., Park, K., and Huh, K.M.: Preparation and swelling behavior of superporous hydrogels: control of pore structure and surface property, *Key Engineering Materials*, 342-343: 717-720, 2007.
- 180) Snider, C., Lee, S-Y., Yeo, Y., Grégory, 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.*, 25: 5-15, 2008.
- 181) Omidian, H. and Park, K.: Swelling agents and devices in oral drug delivery, *J. Drug Del. Sci. Tech.*, 18 (2): 83-93, 2008.
- 182) Chen, H., Kim, S., Li, L., Wang, S., Park, K., Cheng, J-X.: Release of hydrophobic molecules from polymer micelles into cell membranes revealed by Förster resonance energy transfer imaging, *Proc. Natl. Acad. Sci. USA*, 105 (18): 6596-6601, 2008.
- 183) Chen, H., Kim, S., He, W., Wang, H., Low, P.S., Park, K., and Cheng, J-X.: Fast release of lipophilic agents from circulating PEG-PDLLA micelles revealed by in vivo förster resonance energy transfer imaging, *Langmuir*, 24: 5213-5217, 2008.
- 184) Jeong, S.H., Takaishi, Y., Fu, Y., and Park, K.: Materials for making fast dissolving tablets by compression method, *J. Mater. Chem.* 18: 3527-3535, 2008.
- 185) Kang, E., Wang, H., Kwon, I.K., Song, Y-H., Kamath, K., Miller, K.M., Barry, J., Cheng, J-X., and Park, K.: Application of coherent anti-Stokes Raman scattering microscopy to image the changes in a paclitaxel-poly(styrene-b-isobutylene-b-styrene) matrix pre and post drug elution, *J. Biomed. Mater. Res. A*, 87: 913-920, 2008.

- 186) Jeong, S.H. and Park, K.: Development of sustained release fast-disintegrating tablets using various polymer-coated ion-exchange resin complexes, *Int. J. Pharm.*, 353: 195-204, 2008.
- 187) Hyun, H., Cho, J.S., Kim, B.S., Lee, J.W., Kim, M.S., Khang, G., Park, K., Lee, H.B.: Comparison of micelles formed by amphiphilic star block copolymers prepared in the presence of a nonmetallic monomer activator, *J. Polym. Sci.: Part A: Polym. Chem.*, 46: 2084-2096, 2008.
- 188) An, G-H., Kim, M-J., Lee, H-J., Park, S-S., Cho, Y.W., Park, K., and Cho, Y-H.: Fabrication of terazocin-loaded PDLLA microspheres by an ultrasonic spray drying method and their release behaviors, *J. Nanosci. Nanotech.*, 8: 5139-5142, 2008.
- 189) Jeong, S.H. and Park, K.: Drug loading and release properties of ion-exchange resin complexes as a drug delivery matrix, *Int. J. Pharm.*, 361: 26-32, 2008.
- 190) Wen, H., Morris, K., and Park, K.: Synergic effects of polymeric additives on dissolution and crystallization of acetaminophen, *Pharm. Res.*, 25: 349-358, 2008.
- 191) Kim, S. Kim, J.Y., Huh, K.M., Acharya, G., and Park, K.: Hydrotropic polymer micelles containing acrylic acid moieties for oral delivery of paclitaxel. *J. Control. Release* 132, 222-229, 2008.
- 192) Huh, K.M., Mi, H.S., Lee, S.C., Lee, H.J., Kim, S., Park, K.: A new hydrotropic block copolymer micelle system for aqueous solubilization of paclitaxel, *J. Control. Release*, 126: 122-129, 2008.
- 193) Mun, G.A., Nurkeeva, Z.S., Dergunov, S.A., Nama, I.K., Maimakov, T.P., Shaikhutdinov, E.M., Lee, S.C., and Park, K.: Studies on graft copolymerization of 2-hydroxyethyl acrylate onto chitosan, *Reactive & Functional Polymers*, 68: 389-395, 2008.
- 194) Kim, B.S., Oh, J.M., Hyun, H., Kim, K.S., Lee, S.H., Kim, Y.H., Park, K., Lee, H.B., and Kim, M.S.: Insulin-loaded microcapsules for in vivo delivery, *Mol. Pharm.*, 6: 353-365, 2009.
- 195) Choi, J.S., Yang, H.-J., Kim, B.S., Kim, J.D., Kim, J.Y., Yoo, B., Park, K., Lee, H.Y., and Cho, Y.W.: Human extracellular matrix (ECM) powders for injectable cell delivery and adipose tissue engineering, *J. Control. Release*, 139(1):2-7, 2009.
- 196) Saravanakumar, G., Min, H.H., Min, D.S., Kim, A.Y., Lee, C.M., Cho, Y.W., Lee, S.C., Kim, K., Jeong, S.Y., Park, K., Park, J., and Kwon, I.C.: Hydrotropic oligomer-conjugated glycol chitosan as a carrier of paxclitaxel: Synthesis, characterization, and in vivo biodistribution, *J. Control. Release*, 140: 210-217, 2009.
- 197) Kang, E., Vedantham, K., Long, X., Dadara, M., Kwon, I.K., Sturek, M., and Park, K.: A drug-eluting stent for delivery of signal pathway-specific 1,3-dipropyl-8-cyclopentyl xanthine (DPCPX), *Molecular Pharmaceutics*, 6(4): 1110-1117, 2009.
- 198) Zordan, M.D., Grafton, M.M.G., Acharya, G., Reece, L.M., Cooper, C.L., Aronson, A.I., Park, K., Leary, J.F. Detection of pathogenic *E. coli* O157:H7 by a hybrid microfluidic SPR and molecular imaging cytometry device. *Cytometry Part A*, 75A: 155-162, 2009.
- 199) Yuk, K.Y., Choi, Y.M., Park, J.-S., Kim, S.Y., Park, K., and Huh, K.M.: Preparation and characterization of biodegradable superporous hydrogels. *Polymer (Korea)*, 33: 469-476, 2009.
- 200) Kim, S., Kim, J-H., Jeon, O., Kwon, I.C., Park, K.: Engineered polymers for advanced drug delivery, *Eur. J. Pharm. Biopharm.*, 71: 420-430, 2009.
- 201) Kim, B.S., Oh, J.M., Kim, K.S., Seo, K.S., Cho, J.S., Khang, G., Lee, H.B., Park, K., Kim, M.S.: BSA-FITC-loaded microcapsules for in vivo delivery, *Biomaterials*, 30: 902-909, 2009.
- 202) J.Y. Lee, Y.M. Kang, E.S. Kim, M.L. Kang, B. Lee, J.H. Kim, B.H. Min, K. Park, and M.S. Kim: In vitro and in vivo release of albumin from an electrostatically crosslinked in situ-forming gel, *J. Mater. Chem.*, 20: 3265-3271, 2010.

- 203) Choi, J.S., Yang, H.-J., Kim, B.S., Kim, J.D., Lee, S.H., Lee, E.K., Park, K., Cho, Y.W., and Lee, H.Y.: Fabrication of porous extracellular matrix (ECM) scaffolds from human adipose tissue, *Tissue Engineering Part C Methods*, 16: 387-396, 2010.
- 204) Saravanakumar, G., Choi, K.Y., Yoon, H.Y., Kim, K., Park, J.H., Kwon, I.C., Park, K.: Hydrotropic hyaluronic acid conjugates: Synthesis, characterization, and implications as a carrier of paclitaxel. *Int. J. Pharm.*, 394: 154-161, 2010.
- 205) Chaterji, S., Park, K., and Panitch, A.: Scaffold-free *in vitro* arterial mimetics: the importance of smooth muscle-endothelium contact, *Tissue Engineering Part A*, 16: 1901-1912, 2010.
- 206) Kim, S.W., Shi, Y., Kim, J.Y., Park, K., and Cheng, J.X.: Overcoming the barriers in micellar drug delivery: Loading efficiency, *in vivo* stability, and micelle-cell interaction, *Expert Opinion on Drug Delivery*, 7:49-62, 2010.
- 207) Kang, E., Min, H.S., Lee, J., Han, M.H., Ahn, H.J., Yoon, I.-C., Choi, K., Kim, K., Park, K., and Kwon, I.C.: Nanobubbles from gas-generating polymeric nanoparticles: Ultrasound imaging of living subjects, *Angew. Chem. Int. Ed. Engl.*, 49:524-528, 2010.
- 208) Kim, J.Y., Kim, S.W., Papp, M., Park, K., and Pinal, R.: Hydrotropic solubilization of poorly water-soluble drugs, *J. Pharm. Sci.* 99: 3953-3965, 2010.
- 209) Acharya, G., Shin, C.S., McDermott, M., Mishra, H., Park, H., Kwon, I.C., and Park, K.: The hydrogel template method for fabrication of homogeneous nano/microparticles, *J. Control. Release*, 141 (3): 314-319, 2010.
- 210) Kim, K., Kim, J.H., Park, H., Kim, Y.-S., Park, K.S., Nam, H., Lee, S., Park, J.H., Park, R.-W., Kim, I.-S., Choi, K., Kim, S.Y., Park, K. and Kwon, I.C.: Tumor-homing multifunctional nanoparticles for cancer theragnosis: Simultaneous diagnosis, drug delivery, and therapeutic monitoring, *J. Control. Release*, 146: 219-227, 2010.
- 211) Ye, M., Kim, S.W., and Park, K.: Issues in long-term protein delivery using biodegradable microparticles, *J. Control. Release*, 156: 241-260, 2010.
- 212) Omidian, H., Park, K., Kandalam, U., and Rocca, J.G.: Swelling and mechanical properties of modified HEMA-based superporous hydrogels, *J. Bioact. Compat. Polymers*, 25: 483- 497, 2010.
- 213) Omidian, H., Park, K., and Rocca, J.G.: Experimental design in preparation of modified HEMA-based superporous hydrogels in an aqueous medium, *Int. J. Polym. Mater.*, 59: 693-709, 2010.
- 214) Acharya, G., Shin, C.S., Vedantham, K., McDermott, M., Rish, T., Hansen, K., Fu, Y. and Park, K.: A study of drug release from homogeneous PLGA microstructures, *J. Control. Release*, 146: 201-206, 2010.
- 215) Shi, Y., Kim, S.W., Huff, T.B., Borgens, R.B., Park, K., Shi, R., and Cheng, J.-X.: Effective repair of traumatically injured spinal cord by nanoscale block copolymer micelles, *Nature Nanotech*, 5: 80-87, 2010.
- 216) Yun, Y.H., Lee, B.K., Choi, J.S., Kim, S.W., Yoo, B., Kim, Y.S., Park, K., and Cho, Y.W.: A glucose sensor fabricated by piezoelectric inkjet printing of conducting polymers and bienzymes, *Analytical Sciences*, 27: 375-379, 2011.
- 217) Bae, Y.H. and Park, K.: Targeted Drug Delivery to Tumors: Myths, Reality, and Possibility, *J. Control. Release*, 153: 198-205, 2011.
- 218) Choi, J.S., Kim, B.W., Kim, J.D., Choi, Y.C., Lee, E.K., Park, K., Lee, H.Y., and Cho, Y.W.: *In vitro* expansion of human adipose-derived stem cells in a spinner culture system using human extracellular matrix powders. *Cell Tissue Res.* 345: 415-423, 2011.
- 219) Lu, Y., Kim, S., and Park, K.: *In vitro-in vivo* correlation: Perspectives on model development, *Int. J. Pharm.*, 418: 142-148, 2011.

- 220) Paderi, J., Sturat, K., Sturek, M., Park, K., and Panitch, A.: The inhibition of platelet adhesion and activation on collagen during balloon angioplasty by collagen-binding peptidoglycans, *Biomaterials*, 32: 2516-2523, 2011.
- 221) Kim, J.Y., Kim, S.W., Pinal, R., and Park, K.: Hydrotropic polymer micelles as versatile vehicles for delivery of poorly water-soluble drugs, *J. Control. Release*, 152: 13-20, 2011.
- 222) Park, Kyeongsoon, and Park, Kinam: Oral protein delivery: Current status and future prospect, *Reactive and Functional Polymers*, 71: 280-287, 2011.
- 223) Lee, S.J., Koo, H., Lee, D.E., Min, S., Lee, S., Chen, X., Choi, Y., Leary, J.F., Park, K., Jeong, S.Y., Kwon, I.C., and Choi, K.: Tumor-homing photosensitizer-conjugated glycol chitosan nanoparticles for synchronous photodynamic imaging and therapy based on cellular on/off system, *Biomaterials*, 32: 4021-4029, 2011.
- 224) Kim, D.Y., Kwon, D.Y., Lee, B.N., Seo H.W., Kwon, J.S., Lee, B., Han, D.K., Kim, J.H., Min, B.H., Park, K., and Kim, M.S.: Injectable in situ-forming hydrogels for a suppression of drug burst from drug-loaded microcapsules, *Soft Matter*, 8: 7638-7648, 2012.
- 225) Key, J., Cooper, C., Kim, A.Y., Dhawan, D., Knapp, D.W., Kim, K.M., Park, J.H., Choi, K.W., Kwon, I.C., Park, K., and Leary, J.F.: In vivo NIRF and MR dual-modality imaging using glycol chitosan nanoparticles, *J. Control. Release*, 163: 249-255, 2012.
- 226) Kwon, I.K., Lee, S.C., Han, B., and Park, K.: Analysis on the current status of targeted drug delivery to tumors, *J. Control. Release*, 164: 108-114, 2012.
- 227) Vedantham, K., Chaterji, S., Kim, S.W., and Park, K.: Development of a probucol-releasing anti-thrombogenic drug eluting stent, *J. Biomed. Mater. Res. Part B: Appl. Biomater.* 100B: 1068-1099, 2012.
- 228) Yoon, H.Y., Koo, H., Choi, K.Y., Lee, S.J., Kim, K., Kwon, I.C., Leary, J.F., Park, K., Yuk, S.H., Park, J.H. and Choi, K.: Tumor-targeting hyaluronic acid nanoparticles for photodynamic imaging and therapy, *Biomaterials*, 33: 3980-3989, 2012.
- 229) Yoon, H.Y., Saravanakumar, G., Heo, R., Choi, S.H., Song, I.C., Han, M.H., Kim, K., Park, J.H., Choi, K., Kwon, I.C. and Park, K.: Hydrotropic magnetic micelles for combined magnetic resonance imaging and cancer therapy, *J. Control. Release*, 160: 692-698, 2012.
- 230) Mastropietro, D., Omidian, H., and Park, K.: Drug delivery applications for superporous hydrogels, *Expert Opinion on Drug Delivery*, 9: 71-89, 2012.
- 231) Muto, A., Panitch, A., Kim, N.H., Park, K., Komalavilas, P., Brophy, C.M., and Dardik, A.: Inhibition of mitogen activated protein kinase II with MMI-0100 reduces intimal hyperplasia ex vivo and in vivo, *Vascular Pharmacology*, 56: 47-55, 2012.
- 232) Choi, K.Y., Saravanakumar, G., Park, J.H., and Park, K.: Hyaluronic acid-based nanocarriers for intracellular targeting: interfacial interactions with proteins in cancer, *Colloids and Surfaces B: Biointerfaces*, 99: 82-94, 2012.
- 233) Lu, Y. and Park, K.: Polymeric micelles and alternative nanonized delivery vehicles for poorly soluble drugs, *Int. J. Pharm.*, 453: 198-214, 2013.
- 234) Yun, Y., Cho, Y.W., and Park, K.: Nanoparticles for oral delivery: targeted nanoparticles with peptidic ligands for oral protein delivery, *Adv. Drug Del. Rev.*, 65: 822-832, 2013.
- 235) Shin, C.S., Kwak, B., Han, B., and Park, K.: Development of an in vitro 3D tumor model to study therapeutic efficiency of an anti-cancer drug, *Mol. Pharm.*, 10: 2167-2175, 2013.
- 236) Lee, S.Y., Tyler, J., Kim, S.W., Park, K., and Cheng, J.X.: FRET imaging reveals different cellular entry routes of self-assembled and disulfide bonded polymeric micelles, *Mol. Pharm.*, 10: 3497-3506, 2013.

- 237) Park, K.: Facing the truth about nanotechnology in drug delivery, *ACS Nano*, 7: 7442-7447, 2013.
- 238) Scott, R.A., Park, K., Panitch, A.: Water soluble polymer films for intravascular drug delivery of antithrombotic biomolecules, *Eur. J. Pharm. Biopharm.*, 84: 125-131, 2013.
- 239) Koo, H., Min, K.H., Lee, S.C., Park, J.H., Park, K., Jeong, S.Y., Choi, K., Kwon, I.C., and Kim, K.M.: Enhanced drug-loading and therapeutic efficacy of hydrotropic oligomer-conjugated glycol chitosan nanoparticles for tumor-targeted paclitaxel delivery, *J. Control. Release*, 72: 823-831, 2013.
- 240) Choi, D.H., Kim K.H., Park, J.S., Jeong, S.H., and Park, K.: Evaluation of drug delivery profiles in geometric three-layered tablets with various mechanical properties, in vitro–in vivo drug release, and Raman imaging, *J. Control. Release*, 172: 763-772, 2013.
- 241) Lee, S.C., Kwon, I.K. and Park, K.: Hydrogels for delivery of bioactive agents: a historical perspective, *Adv. Drug Del. Rev.*, 65: 17-20, 2013.
- 242) Lee, S.Y., Kim, S.W., Tyler, J., Park, K., and Cheng J.-X.: Blood-stable, tumor-adaptable disulfide bonded MPEG-(Cys)4-PDLLA micelles for chemotherapy, *Biomaterials*, 34: 552-561, 2013.
- 243) Lu, Y., Sturek, M, and Park, K.: Microparticles produced by the hydrogel template method for sustained drug delivery, *Int. J. Pharm*, 461: 258-269, 2014.
- 244) Lu, Y., Wang, Z.-H., Ki, T., McNally, H., Park, K., and Sturek, M.: Development and evaluation of transferrin-stabilized paclitaxel nanocrystal formulation, *J. Control. Release*, 176: 76-85, 2014.
- 245) Wu, W., Lee, S.-Y., Wu, X., Tyler J.Y., Wang, H., Ouyang, Z., Park, K., Xu, X.-M., and Cheng, J.-X.: Neuroprotective ferulic acid (FA)–glycol chitosan (GC) nanoparticles for functional restoration of traumatically injured spinal cord, *Biomaterials*, 35: 2355-2364, 2014.
- 246) Yun, Y.H., Lee, B.K., and Park, K.: Controlled Drug Delivery Systems: The Next 30 Years, *Frontiers of Chemical Science and Engineering*, 8(3): 276-279, 2014.
- 247) Park, K.: Controlled drug delivery systems: Past forward and future back, *J. Control. Release*, 190: 3-8, 2014.
- 248) Kwak, G., Ozcelikkale, A., Shin, C.S., Park, K., and Han, B.: Simulation of complex transport of nanoparticles around a tumor using tumor-microenvironment-on-chip, *J. Control. Release*, 194: 157-167, 2014.
- 249) Yhee, J.Y., Son, S., Kim, S.H., Park, K. Choi, K., and Kwon, I.C.: Self-assembled glycol chitosan nanoparticles for disease-specific theranostics, *J. Control. Release*, 193: 202-213, 2014.
- 250) Lee, B.K., Yun, Y.H., and Park, K.: Smart Nanoparticles for Drug Delivery: Boundaries and Opportunities, *Chemical Engineering Science*, 125: 158-164, 2015.
- 251) Lee, S.S., Li, J., Tai, J.N., Ratliff, T.L., Park, K., and Cheng, J.-X.: Avasimibe encapsulated in human serum albumin blocks cholesterol esterification for selective cancer treatment, *ACS Nano*, 9(3): 2420-2432, 2015.
- 252) Garner, J., Skidmore, S., Park, H., Park, K., Choi, S., and Wang, Y.: A protocol for assay of poly(lactide-co-glycolide) in clinical products, *Int. J. Pharm.* 495: 87-92, 2015.
- 253) Xu, C., Wang, P., Zhang, J., Tian, H., Park, K., and Chen, X.: Pulmonary codelivery of doxorubicin and siRNA by pH-sensitive nanoparticles for therapy of metastatic lung cancer, *Small*, 11 (34): 4321-4333, 2015.
- 254) Yun, Y.H., Lee, B.K., and Park, K.: Controlled Drug Delivery: Historical perspective for the next generation, *J. Control. Release*, 219: 2-7, 2015.
- 255) Chen, J., Lin, L., Guo, Z., Xu, C., Tian, H., Park, K., and Chen, X.: Synergistic treatment of cancer stem cells by combinations of antioncogenes and doxorubicin, *J. Drug Del. Sci. Tech.*, 30: 417-423, 2015.

- 256) Wang, H., Zhang, G., Sui, H., Liu, Y., Park, K. and Wang, W.: Comparative studies on the properties of glycyrrhetic acid-loaded PLGA microparticles prepared by emulsion and template methods, *Int. J. Pharm.*, 496: 723-731, 2015.
- 257) Han, B., Yun, G.Y., Boley, W., Kim, H.D., Hwang, J.Y., Chiu G., and Park, K.: Dropwise gelation-dehydration kinetics during drop-on-demand printing of hydrogel-based materials, *Int. J. Heat Mass Transfer*, 30: 417-423, 2016.
- 258) Ma, Y., He, S., Ma, X., Hong, T., Li, Z., Park, K., and Wang, W.: Silymarin-loaded nanoparticles based on stearic acid-modified *Bletilla striata* polysaccharide for hepatic targeting, *Molecules*, 21: 265 (10 pages), 2016.
- 259) Kim, D.Y., Kwon, D.Y., Kwon, J.S., Park, J.H., Park, S.H., Oh, H.J., Kim, J.H., Min, B.H., Park, K., and Kim, M.S.: Synergistic anti-tumor activity through combinational intratumoral injection of an in-situ injectable drug depot, *Biomaterials* 85: 232-245, 2016.
- 260) Gao, W., Chen, Y., Thompson, D. H., Park, K., and Li, T. Impact of surfactant treatment of paclitaxel nanocrystals on biodistribution and tumor accumulation in tumor-bearing mice. *J. Control. Release*, 237: 168-176, 2016.
- 261) Park, K.: Drug Delivery of the Future: Chasing the Invisible Gorilla, *J. Control. Release*, 240: 2-8, 2016.
- 262) Han, B., Qu, C., Park, K., Konieczny, S.F., and Korc, M.: Recapitulation of complex transport and action of drugs at tumor microenvironment using tumor-microenvironment-on-chip, *Cancer Letters*, 380: 319-329, 2016.
- 263) Báez-Santos, Y.M., Otte, A., and Park, K.: A fast and sensitive method for the detection of leuprolide acetate: a high-throughput approach for the in vitro evaluation of liquid crystal formulations, *Anal. Chem.* 88: 4613-4618, 2016.
- 264) Park, K.: Drug delivery research: The invention cycle, *Mol. Pharm.*, 13 (7): 2143-2147, 2016.
- 265) He, Y. and Park, K.: Effects of the microparticle shape on cellular uptake, *Mol. Pharm.*, 13: 2164-2171, 2016.
- 266) Key, J., Dhawan, D., Cooper, C.L., Knapp, D.W., Kim, K., Kwon, I.C., Choi, K., Park, K., Decuzzi, P., Leary, J.F.: Multicomponent, peptide-targeted glycol chitosan nanoparticles containing ferrimagnetic iron oxide nanocubes for bladder cancer multimodal imaging, *Int. J. Nanomedicine*, 11: 4141-4155, 2016.
- 267) Lee, B.K., Yun, Y., and Park, K.: PLA micro- and nano-particles, *Adv. Drug Del. Rev.*, 106: 176-191, 2016.
- 268) Lim, D.G., Prin, E., Kang, E., Park, K., and Seong, H.J.: Combinatorial nanodiamond in pharmaceutical and biomedical applications, *Int. J. Pharm.* 514: 41-51, 2016.
- 269) Báez-Santos, Y.M., Otte, A., Mun, E.A., Soh, B.-K., Song, C.-G., Lee, Y.N., and Park, K.: Formulation and characterization of a liquid crystalline hexagonal mesophase region of phosphatidylcholine, SPAN 80 and tocopherol acetate for sustained delivery of leuprolide acetate, *Int. J. Pharm.* 514: 314-321, 2016.
- 270) Wang, H., Zhang, G., Ma, X., Kiu, Y., Feng, J., Park, K., and Wang, W.: Enhanced encapsulation and bioavailability of breviscapine in PLGA microparticles by nanocrystal and water-soluble polymer template techniques, *Eur. J. Pharm. Biopharm.* 115: 177-185, 2017.
- 271) Lee, H.C., Ejserholm, F. Gaire, J. Currelin, S. Schouenborg, Je. Wallman, L. Bengtsson, M. Park, K., Otto, K.: Histological evaluation of flexible neural implants; flexibility limit for reducing the tissue response? *J. Neural Eng.*, 14: 036026 (12 pp), 2017.

- 272) Salva, R., Mrsny, R., Park, K., Aubert, I., and Stamoran, C.: Insights and lessons from a scientific conference on non-invasive delivery of macromolecules, *Pharm. Res.*, 34: 1149-1151, 2017.
- 273) Scott, R.A., Ramaswamy, A.K., Park, K., and Panitch, A.: Decorin mimic promotes endothelial cell health in monolayers and EC-SME co-cultures, *J. Tissue Eng. Regen. Med.*, 11(5): 1365-1376, 2017.
- 274) Garner, J., Davidson, D., Eckert, G.J., Barco, C.T., Park, H., and Park, K.: Reshapable polymeric hydrogel for controlled soft-tissue expansion: In vitro and In vivo evaluation, *J. Control. Release*, 262: 201-211, 2017.
- 275) Shi, Y., Pei, J. Pei, Zhang, L., Lee, B.K., Yun, Y., Zhang, J., Li, Z., Gu, S., Park, K., and Yuan, G.: Understanding the effect of magnesium degradation on drug release and anti-proliferation on smooth muscle cells for magnesium-based drug eluting stents. *Corrosion Science*, 123:297-309, 2017.
- 276) Lee, H.C., Gaire, J., Currilin, S.W., McDermott, M.D., Park, K., and Otto, K.J.: Foreign body response to intracortical microelectrodes is not altered with dip-coating of polyethylene glycol (PEG), *Frontiers in Neuroscience*, 11: Article 513 (11 pages), 2017.
- 277) Otte, A., Báez-Santos, Y.M., Mun, E.A., Soh, B.-K., Lee, Y.N. and Park, K.: The in vivo transformation and pharmacokinetic properties of a liquid crystalline drug delivery system, *Int. J. Pharm.*, 532: 345-351, 2017.
- 278) Barwinska, D., Garner, J. Davidson, D., Cook, T., Eckert, G., Tholpady, S.S., March, K., Park, K., and Barco, C.: Mucosal perfusion preservation by a novel shapeable tissue expander for oral reconstruction. *Plastic and Reconstructive Surgery – Global Open*, 5: e1449 (8 pages), 2017.
- 279) Ozcelikkale, A., Shin, K., Noe-Kim, V., Elzey, B.D., Dong, Z., Zhang, J.T., Kim, K., Kwon, I.C., Park, K., and Han, B.: Differential response to doxorubicin in breast cancer subtypes simulated by a microfluidic tumor model, *J. Control. Release*, 266: 129-139, 2017.
- 280) Park, K.: The drug delivery field at the inflection point: Time to fight its way out of the egg, *J. Control. Release*, 267: 2–14, 2017.
- 281) Garner, J., Skidmore, S., Park, H., Park, K., Choi, S., and Wang, Y.: Beyond Q1/Q2: The impact of manufacturing conditions and test methods on drug release from PLGA-based microparticle depot formulation, *J. Pharm. Sci.*, 107: 353-361, 2018.
- 282) Otte, A. Soh, B.-K., Yoon, G., and Park, K.: Liquid crystalline drug delivery vehicles for poorly soluble (and soluble) drugs, *Int. J. Pharm.* 539: 175-183, 2018.
- 283) Bowling, J., Davidson, D.D., Tholpady, S., Park, K., Katona, T., Eckert, G., Chu, T.-M. G., Barco, C.T.: Baseline biomechanical properties of non-expanded tissue samples in dogs, *Plastic and Reconstructive Surgery – Global Open*, in press.

Book Chapters

- 1) Park, K. and Robinson, J.R.: Polymer binding to epithelial cells, in *Optimization of Drug Delivery*, Bundgaard, H., Hansen, A.B., and Kofod, H., Eds., Munksgaard, Copenhagen, 1982, pp. 35-52.
- 2) Park, K., Wood, R.W., and Robinson, J.R.: Oral controlled release systems, in *Medical Applications of Controlled Release*, Langer, R.S., and Wise, D., Eds., CRC Press, 1984, pp. 159-201.
- 3) Park, K., Ch'ng, H.S., and Robinson, J.R.: Alternative approaches to controlled drug delivery: Bioadhesives and in-situ systems, in *Recent Advances in Drug Delivery Systems*, Anderson, J.M., and Kim, S.W., Eds., Plenum Press, 1984, pp. 163-183.
- 4) Park, K., Cooper, S.L., and Robinson, J.R.: Bioadhesive hydrogels, in *Hydrogels in Medicine and Pharmacy*, Peppas, N.A., Ed., CRC Press, Boca Raton, 1987, pp. 151-175.
- 5) Park, K., Mosher, D.F., and Cooper, S.L.: Ex vivo measurement of platelet adhesion to polymeric surfaces. *Methods in Enzymology*, 169:91-104, 1989.

- 6) Park, K., Park, H., and Albrecht, R.M.: Factors affecting the staining with colloidal gold, in *Colloidal Gold: Principles, Methods and Applications*, Vol. I, Hayat, M.A., Ed., Academic Press, San Diego, 1989, pp. 489-518.
- 7) Park, K. and Park, H.: Test methods of bioadhesion, in *Bioadhesive Drug Delivery Systems*, Lenaerts, V. and Gurny, R., Eds., CRC Press, Boca Raton, 1989, pp. 43-64.
- 8) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Enzyme-degradable hydrogels: Properties associated with albumin-crosslinked polyvinylpyrrolidone hydrogels, in *Water-Soluble Polymers: Fundamental Chemistry & Contemporary Applications*, Butta, G., McCormick, C. and Shalaby, S.W., Eds., American Chemical Society, Washington, (ACS Symposium Series 467), 1991, pp. 484-492.
- 9) Goodman, S.L., Park, K. and Albrecht, R.M.: A correlative approach to colloidal gold labeling with video-enhanced light microscopy, low voltage scanning electron microscopy and high voltage electron microscopy, in *Colloidal Gold: Principles, Methods and Applications*, Vol. III, Hayat, M.A., Ed., Academic Press, San Diego, 1991, pp. 369-409.
- 10) Kamath, K.R. and Park, K.: Mucosal adhesive preparations, in *Encyclopedia of Pharmaceutical Technology*, Vol. 10, Swarbrick, J. and Boyland, J.C., Eds., Marcel Dekker, New York, 1993, pp. 301-331.
- 11) Shalaby, W.S.W. and Park, K.: Modified proteins and saccharides, in *Designed-to-Degrade Biomedical Polymers*, Shalaby, S.W., Ed., Hanser Publishers, New York, 1994, pp. 213-258.
- 12) Kamath, K.R. and Park, K.: Biodegradable hydrogels in drug delivery, in *Advanced Drug Reviews*, Vol. 11, Scranton, A. and Peppas, N.A., Eds., Elsevier, New York, 1993, pp. 59-84.
- 13) Amiji, M., Kamath, K.R., and Park, K.: Albumin-modified biomaterial surfaces for reduced thrombogenicity, in *Encyclopedia of Biomaterials and Bioengineering*, Vol. 2, Wise, D.L., Senior Co-Editor, Marcel Dekker, New York, 1995, pp. 1057-1070.
- 14) Park, H. and Park, K.: Hydrogels in bioapplications, in *Hydrogels and Biodegradable Polymers for Bioapplications*, Ottenbrite, Hwang, R.S. and Park, K., Eds., American Chemical Society, Washington, D.C., 1996, pp. 2-10.
- 15) Lee, S.J. and Park, K.: Statistical mechanics of protein adsorption, in *Interfacial Behavior of Bioproducts*, Brash, J.L. and Wokciechowski, P.W., Eds., Marcel Dekker, 1996, pp. 173-207.
- 16) Park, K. and Park, H.: Smart hydrogels, in *The Polymeric Materials Encyclopedia: Synthesis, Properties and Applications*, Salamone, J.C., Ed., CRC Press, Boca Raton, FL, 1996, pp. S200-S206.
- 17) Shalaby, W.S.W. and Park, K.: Enzyme-degradable hydrogels, in *The Polymeric Materials Encyclopedia: Synthesis, Properties and Applications*, Salamone, J.C., Ed., CRC Press, Boca Raton, FL, 1996, pp. E173-E182.
- 18) Bowersock, T. and Park, K.: Vaccines and other immunologic products, in *Encyclopedia of Pharmaceutical Technology*, Vol. 16, Swarbrick, J. and Boyland, J.C., Eds., Marcel Dekker, New York, 1996, pp. 115-151.
- 19) Chen, J., Jo, S., and Park, K.: Degradable hydrogels, in *Handbook of Biodegradable Polymers*, Domb, A.J., Kost, J., and Wiseman, D., Eds., Harwood Academic Publishers, Amsterdam, Netherlands, 1997, pp. 203-230.
- 20) Park, K., Obaidat, A., Li, T., and Park, H.: Future of glucose sensing and insulin delivery: A point of view, in *Advances in Polymeric Biomaterials Science*, Akaike, T., Okano, T., Akashi, M., Terano, M., and Yui, N. Eds., CMC Co., Ltd., Tokyo, Japan, 1997, pp. 465-487.
- 21) Chen, J., Park, H., and Park, K.: Superporous hydrogels as a platform for oral controlled drug delivery, in *Handbook of Pharmaceutical Controlled Release Technology*, Wise, D., Ed., Marcel Dekker, Inc., 2000, pp. 211-224.

- 22) Park, K. and Mrsny, R.: Controlled drug delivery: Present and future, in *Controlled Drug Delivery: Designing Technologies for the Future*, Park, K. and Mrsny, R., Eds., American Chemical Society, Washington, D.C., 2000, pp. 2-12.
- 23) Park, K.: Biomaterials and controlled drug delivery: Achievements by Professor Sung Wan Kim, in *Biomaterials and Drug Delivery toward New Millennium*, Park, K.D., Kwon, I.C., Yui, N., Jeong, S.Y. and Park, K., Eds., Han Rim Won Publishing Co., 2000, pp. 1-7.
- 24) Park, K., Chen, J., and Park, H.: Superporous hydrogel composites: A new generation of hydrogels with fast swelling kinetics, high swelling ratio and high mechanical strength, in *Polymeric Drugs and Drug Delivery Systems*, Ottenbrite, R.M., and Kim, S.W., Eds., Technomic Publishing Co., 2001, pp. 145-156.
- 25) Lee, J.H., Li, T., and Park, K.: Solvation interactions for protein adsorption to biomaterial surfaces, in *Water in Biotechnological Surface Science*, Morra, M. Ed., John Wiley & Sons, New York, 2001, pp. 127-146.
- 26) Lee, J.H. and Park, K.: Modification of natural polymers: Albumin, in *Methods of Tissue Engineering*, Atala, A. and Lanza, R., Eds., Academic Press, San Diego, CA, 2001, pp. 525-538.
- 27) Sa, H., Chien, Y.W., Park, H., Hwang, S.-J., Park, K., and Lloyd, A.W.: New generation technologies, in *Drug Delivery and Targeting for Pharmacists & Pharmaceutical Scientists*, Hillery, A.M., Lloyd, A.W., and Swarbrick, J., Eds., Harwood Academic Publishers, 2001, pp. 421-441.
- 28) Qiu, Y. and Park, K.: Environment-sensitive hydrogels for drug delivery, *Advanced Drug Delivery Reviews*, 53: 321-339, 2001. 64: 49-60, 2012.
- 29) Kim, J.J. and Park, K.: Applications of smart hydrogels in separation, in *Smart Polymers for Bioseparation and Bioprocessing*, Mattiasson, B. and Galaev, I., Eds., Harwood Publishers, 2002, pp. 140-162.
- 30) Lee, J.H., Kim, J.J., and Park, K.: Glucose-sensitive hydrogel membranes, in *Polymeric Biomaterials*, Dumitriu, S., Ed., Marcel Dekker, Inc., New York, NY, 2002, pp. 739-752.
- 31) Mittal, S.K., HogenEsch, H., and Park, K.: Vaccines and other immunological products , in *Encyclopedia of Pharmaceutical Technology*, Swarbrick, J. and Boyland, J.C., Eds., Marcel Dekker, New York, NY, 2002, pp. 2895-2916.
- 32) Qiu, Y. and Park, K.: Modulated drug delivery, in *Supramolecular Design for Biological Applications*, Yui, N., Ed., CRC Press, Boca Raton, 2002, pp. 227-243.
- 33) Byrne, M.E., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition of biomolecules, in *Biological and Biomimetic Materials – Properties to Function*, McKittrick, J., Aizenberg, J., Kittrick, J.M.M., Orme, C.A., Vekilov, P., Eds., Vol. 724, MRS, Pittsburgh, PA, 2002, pp 193-199.
- 33) Blanchette, J.O., Park, K., and Peppas, N.A.: Oral administration of chemotherapeutic agents using complexation hydrogels, *Biological and Biomimetic Materials - Properties to Function*. (Material Research Society Symposium Proceedings. Volume 724). McKittrick, J., Aizenberg, J., Kittrick, J.M.M., Orme, C.A., Veklov, P., Eds. Material Research Society, Warrendale, PA. www.mrs.org. 2002, pp. 215-220.
- 35) Hwang, S.J., Baek, N.J., Park, H.S., and Park, K.: Hydrogels, in *Drug Delivery Systems for Cancer*, Brown, D.M., Ed., Humana Press, 2003, pp. 97-115.
- 36) Jun, G.E., Savaiano, J.K., Park, K., Webster, T.J.: Nanostructured and aligned polymer for articular cartilage repair, in *NANO2002, 6th International Conference on Nanostructured Materials Proceedings*, CD, 2003.

- 37) Baek, N. and Park, K.: Natural polymer gels with fast responses, in *Reflexive Polymers and Hydrogels: Understanding and Designing the Fast-responsive Polymeric Systems*, Yui, N., Mrsny, R., and Park, K., Eds., CRC Press, Boca Raton, FL, 2004, pp. 85-96.
- 38) Kim, J.-D., Yang, S.R., Cho, Y.W., and Park, K.: Fast responsive nanoparticles of hydrophobically modified poly(amino acid)s and proteinoids, in *Reflexive Polymers and Hydrogels: Understanding and Designing the Fast-responsive Polymeric Systems*, Yui, N., Mrsny, R., and Park, K., Eds., CRC Press, Boca Raton, FL, 2004, pp. 373-400.
- 39) Park, K., Yui, N., and Mrsny, R.: A perspective on current and future synthetic reflexive systems, in *Reflexive Polymers and Hydrogels: Understanding and Designing the Fast-responsive Polymeric Systems*, Yui, N., Mrsny, R., and Park, K., Eds., CRC Press, Boca Raton, FL, 2004, pp. 427-437.
- 40) Yoon, Y. and Park, K.: Microencapsulation of protein drugs: A novel approach, in *Tissue Engineering and Novel Delivery Systems*, Yaszemski, M.J., Trantolo, D.J., Lewandrowski, K-U., Hasirci, V., Altobelli, D.E., and Wise, D.L., Eds., Marcel Dekker, 2004, pp. 305-332.
- 41) Park, K.: Cellular drug delivery: Present and potential, in *Cellular Drug Delivery: Principle and Practice*, Lu, D.R. and Øie, S., Eds., Humana Press, 2004, pp. 1-5.
- 42) Jeong, S.H., Fu, Y., and Park, K.: Hydrogels for oral administration, in *Polymeric Drug Delivery Systems*, Kwon, G., Ed., Marcel Dekker, 2005, pp. 195-214.
- 43) Cho, Y.W., Jeong, J.H., Ahn, C.H., Kim, J.D., and Park, K.: Cationic polymers for gene delivery: Formation of polycation-DNA complexes and *in vitro* transfection, Chapter 5 in *Cell Biology: A Laboratory Handbook, 3rd Edn.*, Celis, J.E., Ed., Elsevier, 2005, pp. 29-34.
- 44) Huh, K.M. and Park, K.: Copolymer, block copolymers stimuli and thermosensitive polymers, in *Biomaterials-based Delivery and Biocompatibility of Protein and Nucleic Acids*, Mahato, R., Ed., CRC Press, 2005, pp. 73-93.
- 45) Ooya, T. and Park, K.: Polymer solution properties, micelles, dendrimers, and hydrogels, in *Biomaterials-based Delivery and Biocompatibility of Protein and Nucleic Acids*, Mahato, R., Ed., CRC Press, 2005, pp. 95-118.
- 46) Lee, S.C., Yoon, Y., and Park, K.: Albumin modification, in *Scaffolding in Tissue Engineering*, Ma, P.X. and Elisseff J., Eds., Marcel Dekker, 2005, pp. 283-299.
- 47) Yeo, Y. and Park, K.: Recent advances in microencapsulation technology, in *Encyclopedia of Pharmaceutical Technology*, 2nd Edn. Swarbrick, J., Ed., Marcel Dekker, New York, NY, 2005, pp. 1-15.
- 48) Huh, K., Lee, S.C., Ooya, T., and Park, K.: Polymeric delivery systems for poorly soluble drugs, in *Encyclopedia of Pharmaceutical Technology*, 2nd Edn. Swarbrick, J., Ed., Marcel Dekker, New York, NY, 2004.
- 49) Jeong, S.H. and Park, K.: Hydrogel drug delivery systems, in *Polymers in Drug Delivery*, Uchegbu, I.F., Ed., Taylor and Francis, 2006, pp. 49-62.
- 50) Park, J.H., Huh, K.M., Ye, M., and Park, K.: Hydrogels, in *Encyclopedia of Chemical Processing*, Lee, S. and LaPierre, C.W., Eds., Marcel Dekker, New York, NY, 2006, pp. 1307-1317.
- 51) Ooya, T., Lee, S.C., Huh, K.M., and Park, K.: Hydratropic nanocarriers for poorly soluble drugs, in *Nano-encapsulation Technologies: Frontiers of Nanotherapy*, Mozafari, R., Ed., Springer, Netherlands, 2006, Vol. 1, pp. 51-73.
- 52) Jeong, S.H., Park, J.H., and Park, K.: Formulation issues around lipid-based oral and parenteral delivery systems, in *Role of Lipids in Modifying Oral and Parenteral Drug Delivery*, Wasan, K.M., Ed., John Wiley & Sons, 2006, pp.32-47.

- 53) Lee, S. C., Huh, K. M., Ooya, T., and Park, K.: Hydrotropic Polymer Micelles for Cancer Therapeutics, in *Nanotechnology for Cancer Therapeutics*, Amiji, M., Ed., CRC Press, 2007, pp. 385-408.
- 54) Cho, Y.W., Park, J.H., Park, J.S., and Park, K.: PEGylation: Camouflage of proteins, cells, and nanoparticles against recognition by the body's defense mechanism, Chapter 4.5 in *Handbook of Pharmaceutical Biotechnology*, Gad, W., Ed., John Wiley and Sons, 2007, pp. 489-510.
- 55) Kwon, I.K., Jeong, S.H., Kang, E., and Park, K.: Nanoparticulate drug delivery for cancer therapy, Chapter 19 in *Cancer Nanotechnology*, Nalwa, H.S. and Webster, T., Eds., American Scientific Publishers, Stevenson Ranch, CA, 2007, pp. 333-344.
- 56) Kwon, I.K., Kim, S.W., Chaterji, S., Vedantham, K., and Park, K.: Smart drug delivery systems, in *Smart Materials and Structures*, Schwartz, M., Ed., CRC, 2008, pp. 13.1-13.10.
- 57) Kim, S., Kwon, I.K., Kwon, I.C., and Park, K.: Nanotechnology in drug delivery: Past, present, and future, in *Nanotechnology in Drug Delivery*, de Villiers, M.M. and Kwon, G.S., Eds., AAPS Springer, 2008, pp. 581-596.
- 58) Wei, X., Lee, Y-K., Huh, K.M., Kim, S., and Park, K.: Safety and efficacy of nano/micro materials, Chapter 4 in *Safety of Nanoparticles: From Manufacturing to Clinical Applications*, Webster, T.J. and Pareta, R., Eds., Springer, 2008, pp. 63-88.
- 59) Jeon, O. and Park, K.: Biodegradable polymers for drug delivery systems, in *the Encyclopedia of Surface and Colloid Science*, Somasundaran, P., Ed., Taylor and Francis, 2009, pp. 1-15 (1:1).
- 60) Vedantham, K., Chaterji, S., Kitsongsermthon, J., Garner, J., and Park, K.: Future outlook for drug eluting stents, in *Drug Device Combination Products: Delivery Technologies and Applications*, Lewis, A., Ed., Woodhead Publishing, 2009, Chapter 6 (pp. 117-153).
- 61) Omidian, H. and Park, K.: Fast-responsive macroporous hydrogels, in *Macroporous Polymers: Production, Properties and Biotechnological/Biomedical Applications*, Mattiasson, B., Kumar, A., and Galaev, I., Eds., CRC Press, 2010, Chapter 8 (pp. 179-208).
- 62) Omidian, H. and Park, K.: Introduction to hydrogels, in *Biomedical Applications of Hydrogels Handbook*, Ray M. Ottenbrite, Kinam Park, and Teruo Okano, Eds., Springer, 2010, pp. 1-16.
- 63) Omidian, H. and Park, K.: Engineered high swelling hydrogels, in *Biomedical Applications of Hydrogels Handbook*, Ray M. Ottenbrite, Kinam Park, and Teruo Okano, Eds., Springer, 2010, pp. 351-374.
- 64) Mun, G., Suleimenov, I., Park, K., and Omidian, H.: Superabsorbent hydrogels, in *Biomedical Applications of Hydrogels Handbook*, Ray M. Ottenbrite, Kinam Park, and Teruo Okano, Eds., Springer, 2010, pp. 375-391.
- 65) Omidian, H., Park, K., and Sinko, P.J.: Pharmaceutical Polymers, in *Martin's Physical Pharmacy and Pharmaceutical Sciences*, Sinko, P., Ed., Lippincott Williams & Wilkins, 2010, Chapter 20 (pp. 492-515).
- 66) Kim, S.W. and Park, K.: Polymer micelles for drug delivery, in *Targeted Delivery of Small and Macromolecular Drugs: Problems Faced and Approaches Taken*, Ajit Narang and Ram Mahato, Eds., Taylor and Francis Group, 2010, Chapter 19 (pp. 513-551).
- 67) Kim, M.S., Kim, J.H., Min, B.H., Park, K., and Lee, H.B.: Implantable delivery systems, in *Biodrug Delivery Systems: Fundamentals, Applications and Clinical Development*, Morishita, M. and Park, K., Eds., Informa Healthcare, New York, NY, 2010, Chapter 18 (pp. 293-308).
- 68) Wen, H. and Park, K.: Introduction and overview of oral controlled release formulation design, in *Oral Controlled Release Formulation Design and Drug Delivery: Theory to Practice*, Wen, H. and Park, K., Eds., John Wiley & Sons, 2010, Chap. 1.

- 69) Omidian, H. and Park, K.: Oral targeted drug delivery systems: Gastric retention devices, in *Oral Controlled Release Formulation Design and Drug Delivery: Theory to Practice*, Wen, H. and Park, K., Eds., John Wiley & Sons, 2010, Chap. 12.
- 70) Chen, X., Wen, H., and Park, K.: Challenges and new technologies of oral controlled release, in *Oral Controlled Release Formulation Design and Drug Delivery: Theory to Practice*, Wen, H. and Park, K., Eds., John Wiley & Sons, 2010, Chap. 16.
- 71) Holback, H. and Park, K.: Swelling of hydrogels, in *Biomedical Hyrdogels: Biochemistry, Manufacture And Medical Applications*, Steve Rimmer, Ed., Woodhead Publishing, 2011, pp. 3-24.
- 72) Acharya, G., McDermott, M., Shin, S.J., Park, H., and Park, K.: Hydrogel templates for fabrication of homogeneous polymer microparticles, in *Biomedical Nanotechnology. Methods and Protocols*, Sarah Hurst, Ed., Springer, 2011, pp. 179-185.
- 73) Tran, T.H., Garner, J., Fu, Y., Park, K., and Huh, K.-M.: Biodegradable elastic hydrogels for tissue expander application, in *Handbook of Biodegradable Polymers. Synthesis, Characterization and Applications*, Lendlein, A. and Sisson, A., Eds., Wiley-VCH, 2011, 217-236.
- 74) Omidian, H., Fesharaki, S., and Park, K.: Oral controlled release systems and technologies, in *Controlled Release in Oral Delivery*, Clive G. Wilson and Patrick J. Crowley, Eds., The Controlled Release Society Advances in Delivery Science and Technology, 2011, pp. 109-130.
- 75) Omidian, H. and Park, K.: Hydrogels, in *Comprehensive Biomaterials*, Paul Ducheyne, Ed. Elsevier, New York, NY, 2011, pp. 563-576.
- 76) Omidian, H. and Park, K.: Hydrogels, in *Fundamentals and Applications of Controlled Release Drug Delivery*, Juergen Siepmann, Ronald Siegel, and Michael Rathbone, Eds. Spinger, New York, NY, 2012, pp. 75-106.
- 77) Kim, S.W. and Park, K.: Tailor-made hydrogels for tumor delivery, in *Drug Delivery in Oncology - From Research Concepts to Cancer Therapy*, Felix Kratz, Peter Senter, and Henning Steinhagen, Eds., Wiley-VCH, 2012, pp. 1071-1097.
- 78) Cho, J., Kim, S., and Park, K.: Nanotechnology in drug delivery, in *Nanotechnology Handbook*, Yubing Xie, Ed., CRC Press/Taylor & Francis Group, Boca Raton, FL., 2012, pp. 519-534.
- 79) Kim, M.S. and Park, K.: Injectable hydrogel, in *Drug Delivery and Biomedical Imaging (in Springer Encyclopedia of Nanotechnology)*, Paolo Decuzzi, Ed., Springer, 2012, pp. 1091-1096.
- 80) Jeong, S.H., Oh, K.T., and Park, K.: Glucose-sensitive hydrogels, in *Polymeric Biomaterials, 3rd Edn., Vol. II. Medicinal and Pharmaceutical Applications of Polymers*, Severian Dumitriu and Valentin Popa, Eds., CRC Press, 2013, Chapter 2, pp. 43-64.
- 81) Lu, Y. and Park, K.: Microencapsulation: Methods and Pharmaceutical Applications, in *Encyclopedia of Pharmaceutical Science and Technology*, 4th Edn. Swarbrick, J., Ed., Informa Healthcare, London, UK, 13 pages, 2013.
- 82) Mittal, S.K., HogenEsch, H., Vemulapalli, R., and Park, K.: Vaccines, adjuvants and delivery systems for infectious diseases , in *Encyclopedia of Pharmaceutical Technology*, Swarbrick, J., Ed., Marcel Dekker, New York, NY, 21 pages, 2013.
- 83) Lee, B.K., Yun, Y.H., Park, K., and Sturek, M.: Introduction to biomaterials for cancer therapeutics, in *Biomaterials for Cancer Therapeutics*, Kinam Park, Ed., Woodhead Publishing Ltd., Oxford, UK, 2013. Chapter 1.
- 84) Shin, C.S., Kwak, B., Han, B., Park, K. and Panitch, A.: 3D cancer tumor models for evaluating chemotherapeutic efficacy, in *Biomaterials for Cancer Therapeutics*, Kinam Park, Ed., Woodhead Publishing Ltd., Oxford, UK, 2013. Chapter 16.

- 85) Park, K., Bae, Y.H., and Mrsny, R.: The missing components today and the new treatment tomorrow, in *Cancer Targeted Drug Delivery: An Elusive Dream*, Bae, Y.H., Mrsny, R., and Park, K., Eds., Springer, New York, 2013. Chapter 26.
- 86) Park, K.: Preface, in *Functional Polymers for Nanomedicine*, Youqing Shen, Ed., Royal Society of Chemistry Publishing, 2013, pp. v-vi.
- 87) Lu, Y. and Park, K.: Mucosal drug delivery, in *Biomaterials Science: An Introduction to Materials and Medicine*, Ratner, B.D., Hoffman, A.S., Schoen, F.J., and Lemons, J.E., Eds., Elsevier, pp. 1510-1518 (Appendix F - Chapter II.5.16 - Drug delivery systems: H).
- 88) Kim, S. and Park, K.: Smart hydrogels as in vivo drug delivery systems, in *Biomaterials Science: An Introduction to Materials and Medicine*, Ratner, B., Schoen, F., Lemons, J., and Hoffman, A., Eds., Elsevier, pp. 1518-1524 (Appendix G - Chapter II.5.16 - Drug delivery systems: I).
- 89) Heo, D.N., Min, K.H., Choi, G.H., Kwon, I.K., Park, K., and Lee, S.C.: Scale-up production of theragnostic nanoparticles, in *Cancer Theanostics*, Stephen Wong, Wolfgang Weber, and Shawn Chen, Eds., Elsevier, 2014. Chapter 24 (pp. 457-470).
- 90) Mastropietro, D., Muppalaneni, S., Kwon, Y., Park, K., and Omidian, H.: Polymers in drug delivery, in *Drug Delivery*, Ashim Mitra, Deep Kwatra, and Aswani D. Vadlapudi, Eds., Jones & Bartlett Learning, 2014, pp. 129-156.
- 91) J. Garner, K. Park, Chemically Modified Natural Polysaccharides to Form Gels, in: K.G. Ramawat, J.-M. Méridon (Eds.) *Polysaccharides*, Springer International Publishing, 2014, Chapter 31-1 (pp. 1-25).
- 92) Yun, Y.H., Lee, B.K., Garner, J. and Park, K.: Polysaccharide hydrogels: the present and the future, in *Polysaccharide Hydrogels: Characterization and Biomedical Applications*, Pietro Matricardi, Franco Alhaique, and Tommasina Coviello, Eds., Pan Stanford publishing, 2015, Chapter 14 (pp. 499-509).
- 93) Garner, J. and Park, K.: Types and chemistry of synthetic hydrogels, in *Gels Handbook. Fundamentals, Properties, and Applications of hydrogels. Volume 1: Fundamentals of Hydrogels*, Qi Wen and Yi Dong, Eds., World Scientific Publishing Company, 2015, Chapter 2 (pp. 17-41).
- 94) Lee, B.K., Kim, J.R., Park, K., and Cho, Y.W.: Environment-responsive hydrogels for drug delivery, in *Molecular, Cellular, and Tissue Engineering*, CRC Press, 2015, Chapter 87 (pp. 1689-1710).
- 95) Park, J.H., Park, K., and Kim, M.S.: Biodegradable polymer stent, in *Biodegradable Polymers: New Developments and Challenges*, C. C. Chu, Ed., Nova Science, 2015, Chap. 7 (pp. 199-208).
- 96) Park, K., Han, B., and Korc, M.: Targeting the tumor microenvironment, in *Cancer Nanotechnology Plan 2015*, Office of Cancer Nanotechnology Research Center for Strategic Scientific Initiatives (CSSI), National Cancer Institute/ NIH. 2015, Section I: Emerging Strategies in Cancer Nanotechnology. pp. 25-26.
- 97) Wang, W. and Park, K.: Biomimetic polymers for in vivo drug delivery, in *Bioinspired Systems for Drug and Gene Delivery*, Zongwei Gu, Ed., John Wiley/China Industry Press, 2015. pp. 109-148
- 98) Hillery, A.M. and Park, K.: Conclusions, in *Drug Delivery: Fundamentals and Applications*, Second Edition, Hillery, A. and Park, K., Eds., CRC Press/Taylor & Francis Group, Boca Raton, FL, 2016. pp. 587-601.
- 99) Shin, C.S., Marcano, D.C., Park, K., and Acharya, G.: A; Application of hydrogel template strategy in ocular drug delivery, in *Biomedical Nanotechnology. Methods and Protocol. (Methods in Molecular Biology, Vol. 1570)*, Sarah Hurst Petrosko and Emily S. Day, Eds., Springer, 2017. pp. 279-285.
- 100) Mastropietro, D., Park, K., and Omidian, H.: Polymers in oral drug delivery, in *Comprehensive Biomaterials Edition II*, Paul Ducheyne, Kevin Healy, Dietmar Hutmacher, David Grainger and James Kirkpatrick, Eds., Elsevier, 2017, Chapter 4.23. pp. 430-444.

- 101) Jeong, S.H., Lee, S., and Park, K.: Protein analysis for controlled drug delivery systems, in *Handbook of Analysis and Pharmaceutical Quality*, Leventhal, M., Ed., John Wiley and Sons, submitted.

Journal Cover Stories

- 1) Kinam Park: All nanocarriers are created equal. *J. Control. Release* 130: 139, 2008.
- 2) Kinam Park: Bioresponsive drug delivery for regenerative medicine. *J. Control. Release* 130: 201, 2008.
- 3) Kinam Park: Solid-in-oil nanodispersion shows a possibility of transdermal protein delivery. *J. Control. Release* 131: 1, 2008.
- 4) Kinam Park: Understanding skin architecture: a two photon microscopy study. *J. Control. Release* 132: 1, 2008.
- 5) Kinam Park: Trojan monocytes for improved drug delivery to the brain, *J. Control. Release* 132: 75, 2008.
- 6) Kinam Park: Ultrasound-activatable drug-loaded microbubbles for intracellular targeting, *J. Control. Release* 132: 151, 2008.
- 7) Kinam Park: Better design of drug-eluting stents using computer modeling, *J. Control. Release* 133: 1, 2008.
- 8) Kinam Park: A new method for preventing restenosis: A single IV injection of drug-loaded nanoparticles, *J. Control. Release* 133: 87, 2009.
- 9) Kinam Park: Dendrimer polymeric micelles for enhanced photodynamic cancer treatment, *J. Control. Release* 133: 171, 2009.
- 10) Kinam Park: Lectin-immobilized nanospheres for GI tumor targeting, *J. Control. Release* 134: 1, 2009.
- 11) Kinam Park: Non-ionic polymersomes for delivery of oligonucleotides, *J. Control. Release* 134: 73, 2009.
- 12) Kinam Park: Non-invasive monitoring of BMP-2 retention and bone formation, *J. Control. Release* 134: 157, 2009.
- 13) Kinam Park: Smart nanobombs for inducing traumatic death of cancer cells, *J. Control. Release* 135: 1, 2009.
- 14) Kinam Park: Dynamic control of needle-free jet injection, *J. Control. Release* 135: 103, 2009.
- 15) Kinam Park: Self-exploding microcapsules for pulsed drug delivery, *J. Control. Release* 135: 185, 2009.
- 16) Kinam Park: Octaarginine-liposomes as an effective vaccine carrier for mature dendritic cells, *J. Control. Release* 136: 1, 2009.
- 17) Kinam Park: Non viral vector delivery in vitro using fibrin hydrogels, *J. Control. Release* 136: 87, 2009.
- 18) Kinam Park: Targeting to retina by submicron-sized liposomes, *J. Control. Release* 136: 171, 2009.
- 19) Kinam Park: Transport across the blood-brain barrier using albumin nanoparticles, *J. Control. Release* 137: 1, 2009.
- 20) Kinam Park: Real time tracking of single magnetic lipoplex particles in living cells, *J. Control. Release* 137: 89, 2009.

- 21) Kinam Park: Xenogeneic delivery of therapeutic products using transient immunosuppression, *J. Control. Release* 137: 173, 2009.
- 22) Kinam Park: Confocal Raman spectroscopy to study in vivo skin penetration of retinol, *J. Control. Release* 138:1, 2009.
- 23) Kinam Park: Enhanced mucosal vaccination by biodegradable nanoparticles, *J. Control. Release* 138: 89, 2009.
- 24) Kinam Park: Selective synovectomy using thrombin-sensitive photodynamic agents, *J. Control. Release* 138: 224, 2009.
- 25) Kinam Park: Intracellular trafficking of cell-penetrating peptide-avidine complexes, *J. Control. Release* 139: 87, 2009.
- 26) Kinam Park: Dry coating of immunotherapeutics to densely packed and short microprojection arrays, *J. Control. Release* 139: 171, 2009.
- 27) Kinam Park: PEI–DNA complexes with higher transfection efficiency and lower cytotoxicity, *J. Control. Release* 140, 1, 2009.
- 28) Kinam Park: Nanovehicles for enhanced oral delivery of taxanes, *J. Control. Release* 140, 77-78, 2009.
- 29) Kinam Park, You Han Bae, and David W. Grainger: Preface. The 14th International Symposium on Recent Advances in Drug Delivery Systems, February 15–18, 2009, Salt Lake City, UT, USA, *J. Control. Release* 140, 183-184, 2009
- 30) Wim Hennink and Kinam Park: The influence of polymer topology on pharmacokinetics, *J. Control. Release* 140, 185, 2009.
- 31) Kinam Park: Target cell-specific transgene expression delivery systems, *J. Control. Release* 141, 1, 2009.
- 32) Kinam Park: Luciferin liposomes for enhanced in vivo bioluminescence, *J. Control. Release* 141, 109, 2010.
- 33) Daan J.A. Crommelin, Kinam Park, and Alexander Florence: Pharmaceutical nanotechnology: Unmet needs in drug delivery, *J. Control. Release* 141, 263-264, 2010.
- 34) Kinam Park: Endocytic uptake and intracellular trafficking of poly(amidoamine)s, *J. Control. Release* 142, 1, 2010.
- 35) Kinam Park: To PEGylate or not to PEGylate, that is not the question, *J. Control. Release* 142, 147-148, 2010.
- 36) Kinam Park: Systemic siRNA Delivery Using Biocompatible Calcium Phosphate Nanoparticles, *J. Control. Release* 142, 295, 2010.
- 37) Kinam Park: Monitoring intracellular degradation of exogenous DNA by FCS and FCCS, *J. Control. Release* 143, 1, 2010.
- 38) Kinam Park: Tumor regression after systemic administration of transferrin-targeted TNF α plasmid-dendrimer conjugates, *J. Control. Release* 143, 167, 2010.
- 39) Kinamm Park: Efficient delivery of VEGF via heparin-functionalized nanoparticle–fibrin complex, *J. Control. Release* 143, 281, 2010.
- 40) Kinam Park: Safe and effective gene delivery by hybrid polymer-virus vectors, *J. Control. Release* 144, 1, 2010.
- 41) Kinam Park: Nano is better than micro for targeted vaccine delivery, *J. Control. Release* 144, 117, 2010.

- 42) Kinam Park: *In vivo* MRI analysis of intracellular trafficking of paramagnetically labeled liposomes, *J. Control. Release* 144,269 , 2010.
- 43) Kinam Park: Efficient oral delivery of paclitaxel using cyclodextrin complexes, *J. Control. Release* 145, 1, 2010.
- 44) Kinam Park: A new ligand for targeted drug delivery to tumor stromal cells, *J. Control. Release* 145, 75, 2010.
- 45) Kinam Park: Drug release coating for reduced tissue reaction to implanted neuroprostheses, *J. Control. Release* 145, 177, 2010.
- 46) Kinam Park: Positron emission tomography imaging for study of intestinal insulin absorption, *J. Control. Release* 146, 1, 2010.
- 47) Ralph Lipp, Randall Mrsny, and Kinam Park: Seventh International Nanomedicine and Drug Delivery Symposium (NanoDDS'09), *J. Control. Release* 146, 163, 2010.
- 48) Kinam Park: Focused ultrasound for targeted nanoparticle delivery to tumors, *J. Control. Release* 146 (2010) 263.
- 49) Kinam Park: Carbonate apatite-facilitated intracellular delivery of siRNA, *J. Control. Release* 147 (2010) 1.
- 50) Kinam Park: Critical role of molecular imaging for substantially improved anticancer therapy, *J. Control. Release* 147 (2010) 153.
- 51) Kinam Park: Effect of shape and size of polymer particles on cellular internalization, *J. Control. Release* 147 (2010) 313.
- 52) Kinam Park: Paclitaxel-loaded nanoparticles by temperature-induced phase transition, *J. Control. Release* 148 (2010) 265.
- 53) Kinam Park: Achilles heels and Trojan horses against drug-resistant tumor cells, *J. Control. Release* 149 (2010) 91.
- 54) Kinam Park: Enhanced delivery to endothelial lysosomes by ICAM-1-targeted nanocarriers, *J. Control. Release* 149 (2011) 207-208.
- 55) Kinam Park: Selective endothelial targeting of stealthed adenovirus, *J. Control. Release* 150 (2011) 127.
- 56) Kinam Park: Noninvasive imaging of MT1-MMP-positive tumors, *J. Control. Release* 150 (3) (2011) 237.
- 56) Kinam Park: Systemic anti-tumor activity of liposomal glucocorticoids, *J. Control. Release* 151 (1) (2011) 1.
- 57) Kinam Park: Mechanism of cross-presentation of microencapsulated antigen, *J. Control. Release* 151 (3) (2011) 219.
- 58) Kinam Park: Injectable hyaluronic acid hydrogel for bone augmentation, *J. Control. Release* 152 (2) (2011) 207.
- 59) Kinam Park: Improving the reach of vaccines to low-resource regions with a needle-free vaccine delivery device and long-term thermostabilization, *J. Control. Release* 152 (3) (2011) 329.
- 60) Kinam Park: Unraveling the penetration: Model giant plasma membrane vesicles for study of cell-penetrating peptides, *J. Control. Release* 153 (2) (2011) 105.
- 61) Kinam Park: Hexagonal prism nanocarriers for mitigated phagocytosis, *J. Control. Release* 154 (1) (2011) 1.

- 62) Kinam Park: Administration route and carrier dependent effects on vaccine efficacy: Implications for vaccine design, *J. Control. Release* 154 (2) (2011) 109.
- 63) Kinam Park: Shockwave-ruptured nanopayload carriers (SHERPAs) for ultrasound-triggered drug release, *J. Control. Release* 155 (3) (2011) 343.
- 64) Kinam Park: Nanocomposite microparticles for injectable cell scaffolds, *J. Control. Release* 156 (1) (2011) 1.
- 65) Kinam Park: Cardioprotective properties of Tat-BH4 and Pip2b-BH4 in vivo, *J. Control. Release* 156 (2) (2011) 117.
- 66) Kinam Park: IVIVC for circulation kinetics of liposomes, *J. Control. Release* 156 (2011) 275.
- 67) Kinam Park: Albumin: A versatile carrier for drug delivery, *J. Control. Release* 157 (2011) 3.
- 68) Kinam Park: Microbubble ultrasound-guided targeted delivery to tumors, *J. Control. Release* 157 (2011) 167.
- 69) Kinam Park: The optimal formulation variables for tumor targeting, *J. Control. Release* 157 (2011) 315.
- 70) Kinam Park: Targeted delivery to monocytes, *J. Control. Release* 158 (2012) 1.
- 71) Kinam Park: Comparative study on liposome targeting to tumor endothelium, *J. Control. Release* 158 (2012) 181.
- 72) Kinam Park: Intraperitoneal delivery of paclitaxel with injectable hydrogel: “Seeing” is not always “believing”, *J. Control. Release* 158 (2012) 355.
- 73) Kinam Park: Dual drug-eluting stent, *J. Control. Release* 159 (2012) 1.
- 74) Kinam Park: Kinam Park: Arginine-rich CPPs for improved drug delivery to tumors, *J. Control. Release* 159 (2012) 153.
- 75) Kinam Park: Functional enhancement of transplanted islets by extendin-4, *J. Control. Release* 159 (2012) 311.
- 76) Kinam Park: Toxicity risk of nanocarriers, *J. Control. Release* 160 (2012) 1.
- 77) Kinam Park: A two-step external activation for targeted intracellular delivery, *J. Control. Release* 161 (2012) 150.
- 78) Kinam Park: Extravascular transport of nanoparticles in solid tumors, *J. Control. Release* 161 (2012) 967.
- 79) Kinam Park: No penetration of nanoparticles through intact skin, *J. Control. Release* 162 (2012) 258.
- 80) Kinam Park: Active liposomal loading of a poorly soluble ionizable drug. *J. Control. Release* 162 (2012) 475.
- 81) Kinam Park: Significance of handling, formulation and storage conditions on the stability and bioactivity of rhBMP-2. *J. Control. Release* 162 (2012) 654.
- 82) Kinam Park: The role of major vault protein (MVP) in drug resistance. *J. Control. Release* 163 (2012) 266.
- 83) Kinam Park: Vascular modification by electroporation. *J. Control. Release* 163 (2012) 404.
- 84) Kinam Park: Poly-SNO-HSA: A safe and effective multifunctional antitumor agent. *J. Control. Release* 164 (2012) 105.
- 85) Kinam Park: A cell therapy-based cure of the Laron Syndrome. *J. Control. Release* 165 (2013) 90.

- 86) Kinam Park: Targeted delivery nano/micro particles to inflamed intestinal mucosa in human, *J. Control. Release* 165 (2013) 162.
- 87) Kinam Park: Mechanistic study on the ABC phenomenon of PEG conjugates, *J. Control. Release* 165 (2013) 234.
- 88) Kinam Park: Targeted inhibition of inflammatory gene expression in endothelial cells, *J. Control. Release* 166 (2013) 86.
- 89) Kinam Park: Transport of nanostructured lipid carriers across the intestinal barrier, *J. Control. Release* 166 (2013) 195.
- 90) Kinam Park: Not all liposomes are created equal, *J. Control. Release* 166 (2013) 316.
- 91) Kinam Park: Nanoparticle diffusion in the bovine vitreous, *J. Control. Release* 167 (2013) 108.
- 92) Kinam Park: Improved tumor targeting by mild hyperthermia, *J. Control. Release* 167 (2013) 220.
- 93) Kinam Park: Hydrogel particle aggregates for growth factor delivery, *J. Control. Release* 167 (2013) 333.
- 94) Kinam Park: Delivery of definable numbers of PLGA microparticles within embroid bodies, *J. Control. Release* 168 (2013) 103.
- 95) Kinam Park: Protocells for DNA cargo delivery to the spinal cord, *J. Control. Release* 168 (2013) 238.
- 96) Kinam Park: A new look at ultrasound-mediated extravasation, *J. Control. Release* 168 (2013) 341.
- 97) Kinam Park: Just getting into cells is not enough, *J. Control. Release* 169 (2013) 162.
- 98) Kinam Park: Small molecule inhibitors to manipulate adenovirus gene transfer, *J. Control. Release* 170 (2013) 160.
- 99) Kinam Park: Catechol-functionalized adhesive nanoparticles as a surface-releasing system, *J. Control. Release* 170 (2013) 306.
- 100) Kinam Park: Nanospheres for modulating macrophage-specific inflammation, *J. Control. Release* 170 (2013) 487.
- 101) Kinam Park: PK modulation of peptides by hapten-mediated antibody complexation, *J. Control. Release* 171 (2013) 91.
- 102) Kinam Park: Programmed sickle cells for targeted delivery to hypoxic tumors, *J. Control. Release* 171 (2013) 258.
- 103) Kinam Park: Questions on the role of the EPR effect in tumor targeting, *J. Control. Release* 172 (2013) 391.
- 104) Kinam Park: *In vitro* and *in vivo* correlation of paclitaxel-loaded polymeric microparticles, *J. Control. Release* 172 (2013) 1162.
- 105) Kinam Park: Multicomponent nanochains for treating cancer micrometastasis, *J. Control. Release* 173 (2013) 166.
- 106) Kinam Park: Lessons learned from thermosensitive liposomes for improved chemotherapy, *J. Control. Release* 174 (2014) 219.
- 107) Kinam Park: Complex adaptive therapeutic strategy for cancer treatment, *J. Control. Release* 175 (2014) 87.
- 108) Kinam Park: Endothelial specific delivery of siRNA, *J. Control. Release* 176 (2014) 133.
- 109) Kinam Park: Harnessing lipid absorption pathways to target the lymphatic system, *J. Control. Release* 177 (2014) 108.

- 110) Kinam Park: Targeted vs. Non-Targeted Delivery Systems: Reduced Toxicity over Efficacy, *J. Control. Release* 178 (2014) 126.
- 111) Kinam Park: The mitotic window of opportunity for plasmid DNA delivery, *J. Control. Release* 179 (2014) 76.
- 112) Kinam Park: Absence of in vivo - in vitro correlation in per-oral drug delivery, *J. Control. Release* 180 (2014) 150.
- 113) Kinam Park: Cornea-targeted gene therapy using adenovirus vector, *J. Control. Release* 181 (2014) 53.
- 114) Kinam Park: Collagen gels for delivery of bioactive peptide derived from BMP-9, *J. Control. Release* 182 (2014) 12.
- 115) Kinam Park: Biological effect of BMP-2 monitored by PET/CT, *J. Control. Release* 183 (2014) 178.
- 116) Kinam Park: Vascularization in 3D bioprinted scaffolds, *J. Control. Release* 184 (2014) 79.
- 117) Kinam Park: Lyotropic liquid crystal for long-term delivery of peptide drugs, *J. Control. Release* 185 (2014) 139.
- 118) Kinam Park: Reversible albumin conjugation for improved molecular imaging, *J. Control. Release* 186 (2014) 88.
- 119) Kinam Park: True combination therapy using synergistic drug combination, *J. Control. Release* 187 (2014) 198.
- 120) Kinam Park: Dissolution mechanisms of felodipine solid dispersions, *J. Control. Release* 188 (2014) 101.
- 121) Kinam Park: Translation from mouse to human: Time to think in new boxes, *J. Control. Release* 189 (2014) 187.
- 122) Kinam Park: Predictive models of nanoparticle transport in solid tumors, *J. Control. Release* 192 (2014) 325.
- 123) Kinam Park: Ligand Affinity: Multivalency counterbalances PEGylation, *J. Control. Release* 194 (2014) 351.
- 124) Kinam Park: Rhythmomimetic Drug Delivery, *J. Control. Release* 196 (2014) 394.
- 125) Kinam Park: Antibody transport within the brain, *J. Control. Release* 197 (2014) 219.
- 126) Kinam Park: Triglyceride micro-emulsion for detoxification of acute pharmacotoxicity, *J. Control. Release* 198 (2014) 104.
- 127) Kinam Park: Tissue penetration of bacteria into quiescent regions of tumors, *J. Control. Release* 199 (2015) 198.
- 128) Kinam Park: Quantitative 3D mapping of drug absorption in skin, *J. Control. Release* 200 (2015) 233.
- 129) Kinam Park: A microfluidic system for evaluating drug delivery to solid tumors, *J. Control. Release* 201 (2015) 101.
- 130) Kinam Park: Mast cells for cell-mediated therapy, *J. Control. Release* 202 (2015) 118.
- 131) Kinam Park: Calcium-siRNA nanocomplexes: The importance of reversibility, *J. Control. Release* 203 (2015) 189.
- 132) Kinam Park: Thin-film freeze-drying for lyophilization of vaccines, *J. Control. Release* 204 (2015) 98.
- 133) Kinam Park: Insight into extravasation and internalization of nanoparticles, *J. Control. Release* 206 (2015) 243.

- 134) Kinam Park: Spatio-temporal heterogeneity in tumor liposome uptake: characterization of macro- and microdistribution, *J. Control. Release* 207 (2015) 165.
- 135) Kinam Park: Biodegradable thermosensitive polymer gel for sustained BMP-2 delivery, *J. Control. Release* 209 (2015) 337.
- 136) Kinam Park: Rational design of agents to transiently increase paracellular permeability, *J. Control. Release* 210 (2015) 246.
- 137) Kinam Park: Drug release mechanisms from amorphous solid dispersions, *J. Control. Release* 211 (2015) 171.
- 138) Kinam Park: Opening the blood-brain barrier by focused ultrasound, *J. Control. Release* 212 (2015) 113.
- 139) Kinam Park: An intravaginal ring for sustained and simultaneous delivery of 4 drugs, *J. Control. Release* 213 (2015) 193.
- 140) Kinam Park: Super paramagnetic nanoparticles for the diagnostic imaging of pancreatic cancer, *J. Control. Release* 214 (2015) 134.
- 141) Kinam Park: Enhanced regeneration capacity of cardiac stem cells by TAT-Hsp27, *J. Control. Release* 215 (2015) 129.
- 142) Kinam Park: Dynamic cell culture model of endothelial cells for simulating in vivo nanoparticle uptake, *J. Control. Release* 216 (2015) 169.
- 143) Kinam Park: 3D printing of 5-drug polypill, *J. Control. Release* 217 (2015) 352-253.
- 144) Kinam Park: IVIVC of parenteral PLGA microspheres, *J. Control. Release* 218 (2015) 116.
- 145) Kinam Park: Novel approach to measure drug release from nanomedicines, *J. Control. Release* 220 (2015) 568.
- 146) Kinam Park: An integrated assessment of PEGylated liposomal doxorubicin products, *J. Control. Release* 221 (2015) 71.
- 147) Kinam Park: Exosome-based therapeutic approach for muscle regeneration, *J. Control. Release* 222 (2016) 176.
- 148) Kinam Park: Targeting prostate cancer cells en route to dissemination, *J. Control. Release* 223 (2016) 224.
- 149) Kinam Park: A hydrophilic matrix approach for controlled vaginal drug delivery, *J. Control. Release* 224 (2016) 240.
- 150) Kinam Park: Dissolving microneedle vaccine delivery system, *J. Control. Release* 225 (2016) 314.
- 151) Kinam Park: Isolated lung model for assessing drug absorption from PLGA microparticle, *J. Control. Release* 226 (2016) 268.
- 152) Kinam Park: Magnetic resonance imaging for developing intramuscular formulations, *J. Control. Release* 227 (2016) 94.
- 153) Kinam Park: Enhanced antitumor effects of hTRAIL by binding to endogenous albumin, *J. Control. Release* 228 (2016) 206.
- 154) Kinam Park: Visualization of focal permeation sites within epithelial barriers, *J. Control. Release* 229 (2016) 200.
- 155) Kinam Park: Sustained delivery of antibodies in vivo by local retention, *J. Control. Release* 230 (2016) 116.

- 156) Kinam Park: Enhanced antitumor effects of hTRAIL by binding to endogenous albumin, *J. Control. Release* 232 (2016) 265.
- 157) Kinam Park: Organotypic non-melanoma skin cancer models for use in preclinical research, *J. Control. Release* 233 (2016) 220.
- 158) Kinam Park: Pulmonary delivery of anti-ricin antibody: From the bench to the clinic, *J. Control. Release* 234 (2016) 135.
- 159) Kinam Park: Sustained efficacy of paclitaxel nanocrystals in hydrogel depot, *J. Control. Release* 235 (2016) 393.
- 160) Kinam Park: Acoustic Cluster Therapy for better treatment of solid tumors, *J. Control. Release* 236 (2016) 117.
- 161) Kinam Park: Mechanisms controlling drug release from coated pellets, *J. Control. Release* 237 (2016) 185.
- 162) Kinam Park: Maintaining protein activity during hydrogel cross-linking, *J. Control. Release* 238 (2016) 313.
- 163) Kinam Park: Hemocompatible and immune-safe library of citrem-phospholipid liquid crystalline nanoplateforms, *J. Control. Release* 239 (2016) 249.
- 164) Kinam Park: In vivo DNA delivery with NickFect peptide vectors, *J. Control. Release* 241 (2016) 242.
- 165) Kinam Park: Ultrasound and microbubble enhanced treatment of inoperable pancreatic cancer, *J. Control. Release* 243 (2016) 381.
- 166) Kinam Park: Ocular microparticle formulations for 6-month delivery of anti-VEGF, *J. Control. Release* 244 (2016) 136.
- 167) Kinam Park: The drug delivery field needs a well-diversified technology portfolio, *J. Control. Release* 245 (2017) 177.
- 168) Kinam Park: Drug delivery research for the future: Expanding the nano horizons and beyond, *J. Control. Release* 246 (2017) 183-184.
- 169) Kinam Park: Megakaryocytic microparticles for targeted delivery to hematopoietic stem cells, *J. Control. Release* 247 (2017) 206.
- 170) Kinam Park: Prevention of nanoparticle aggregation during freeze-drying, *J. Control. Release* 248 (2017) 153.
- 171) Kinam Park: Adipose-derived stem cells combined with neuregulin microparticles for efficient cardiac repair, *J. Control. Release* 249 (2017) 196.
- 172) Kinam Park: Attenuating the immunogenicity of PEGylated liposomes by gangliosides, *J. Control. Release* 250 (2017) 116.
- 173) Kinam Park: Intracellular enzymes of the retinal pigment epithelial cells for controlled drug delivery, *J. Control. Release* 251 (2017) 102.
- 174) Kinam Park: Rational drug loading of liposomes revisited, *J. Control. Release* 252 (2017).
- 175) Kinam Park: Nanoparticle properties affecting nuclear targeting in cancer and normal cells, *J. Control. Release* 253 (2017) 184.
- 176) Kinam Park: Chitosan-gelatin-platelet gel composite scaffold for bone regeneration, *J. Control. Release* 254 (2017) 137.

- 177) Kinam Park: The lack of IVIVC for monoacyl phospholipid-based self-emulsifying drug delivery systems, *J. Control. Release* 255 (2017) 279.
- 178) Kinam Park: Moderate enhancement in tissue permeability by preclinical focused ultrasound, *J. Control. Release* 256 (2017) 214.
- 179) Kinam Park: Towards a preventive treatment of Alzheimer's disease with multi-functional liposomes, *J. Control. Release* 258 (2017) 254.
- 180) Kinam Park: Real-time monitoring of antibody microdistribution during photoimmunotherapy, *J. Control. Release* 260 (2017) 247.
- 181) Insight into brain-targeted drug delivery via LAT1-utilizing prodrugs, *J. Control. Release* 261 (2017). 368.
- 182) Enhanced intrapericardial drug delivery by PLGA nanoparticles, *J. Control. Release* 262 (2017) 357.
- 183) Zebrafish as a screening tool for the systemic circulation of nanoparticles, *J. Control. Release* 264 (2017) 342.
- 184) Tolerance levels of PLGA microspheres in the eyes, *J. Control. Release* 266 (2017) 365.
- 185) Mechanistic understanding of ragweed pollen for oral vaccine delivery, *J. Control. Release* 268 (2017) 427.
- 186) Efficient therapy of Pompe disease by an acid α -glucosidase conjugate, *J. Control. Release* 269 (2018) 441-442.
- 187) Absorption of orally administered ultrafine drug particles, *J. Control. Release* 270 (2018) 304.
- 188) Treating resistant tumors using HER3-targeted nanobiologics, *J. Control. Release* 271 (2018) 166.
- 189) Size- and site-dependent distribution of therapeutic proteins into thoracic lymph, *J. Control. Release* 272 (2018) 182.
- 190) In utero gene delivery to spinal cord motor neurons, *J. Control. Release* 273 (2018) 184.
- 191) Prevention of intimal hyperplasia by immobilized all-trans retinoic acid, *J. Control. Release* 274 (2018) 118.

Journal Editorials

- 1) Kinam Park: *J. Control. Release* 128 (2008) 1.
- 2) Kinam Park: *J. Control. Release* 139 (2009) 172.
- 3) Kinam Park: *J. Control. Release* 148 (2010) 129-130.
- 4) Kinam Park: *J. Control. Release* 204 (2015) A1.
- 5) Kinam Park: *J. Control. Release* 215 (2015) A1-A2.
- 6) Kinam Park: *J. Control. Release* 268 (2017) 428
- 7) Kinam Park: *J. Control. Release* 269 (2018).

Patents

- 1) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., M. Levy, and Park, K..
Oral administration of antigens.
U.S. patent No. 5,352,448, 1994.
- 2) Park, K. and Kalpana R. Kamath
Method of binding using irradiation and product with albumin bound to biomaterials.
U.S. patent No. 5,376,692, 1994.

- 3) Bowersock, T.L., Park, K., and Porter, R.E., Jr.
Alginate-based vaccine compositions.
U.S. patent No. 5,674,495 (October 7, 1997)
- 4) Park, K. and Park, H.
Super absorbent hydrogel foams
U.S. patent No. 5,750,585 (May 12, 1998)
- 5) McPherson, T., Jo, S., and Park, K.
Grafting of biocompatible hydrophilic polymers onto inorganic and metal surfaces.
U.S. patent No. 6,013,855 (January 11, 2000)
- 6) Chen, J., Jo, S., and Park, K.
Hydrophilic, hydrophobic, and thermoreversible saccharide gels and foams, and methods for producing same.
U.S. patent No. 6,018,033 (January 25, 2000)
- 7) Park, K., Chen, J., and Park, H.
Hydrogel composites and superporous hydrogel composites having fast swelling, high mechanical strength, and superabsorbent properties.
U.S. patent No. 6,271,278 (August 7, 2001)
- 8) Yeo, Y., Chen, A.-T., Basaran, O.A., and Park, K.
Microencapsulation of drugs by solvent exchange
U.S. patent No. 6,599,627 (July 29, 2003)
- 9) Yeo, Y. and Park, K.
Microencapsulation using ultrasonic atomizers
U.S. patent No. 6,767,637 (July 27, 2004)
- 10) Omidian, H., Qiu, Y., Yang, S.Y., Kim, J.D., Park, H., and Park, K.
Hydrogels having enhanced elasticity and mechanical strength properties.
U.S. patent No. 6,960,617 (November 1, 2005)
- 11) Shanley, J.F., Eigler, N.L., Park, K., and Edelman, E.R.
Expandable medical device for delivery of beneficial agent
U.S. patent No. 7,208,010 (April 24, 2007)
- 12) Thompson, D.H., Hrycyna, C.A., Lee, G.U., Basaran, O.A., Park, K., and Szleifer, I.
Device and bioanalytical method utilizing asymmetric biofunctionalized membrane
U.S. Patent No. 7,374,944 (May 20, 2008)
- 13) Park, Grace E., Ward, Brian C., Park, Kinam, and Webster, Thomas J.
PLGA substrate with aligned and nano-sized surface structures and associated method
U.S. Patent No. 7,527,803 (May 5, 2009)
- 14) Diaz, Stephen Hunter, Park, Kinam, and Shanley, John F.
Method and apparatus for loading a beneficial agent into an expandable medical device
U.S. Patent No. 7,658,758 (February 9, 2010)
- 15) Fu, Y., Pai, C.M., Park, S.Y., Seomoon, G., Park, K.
Highly plastic granules for making fast melting tablets

- Filed on May 7, 2004.
U.S. patent No. 7,749,533 (July 6, 2010)
- 16) Shanley, J.F., Parker, T.L. and Park, K.
Implantable medical device with beneficial agent concentration gradient
U.S. Patent No. 8,449,901 (May 28, 2013)
- 17) Panitch, A., Paderi, J.E., Park, K., Stuart, K., and Higbee, S.
Collagen-binding synthetic peptidoglycans, preparation, and methods of use
Filed on March 7, 2009
U.S. Serial No: 12/286,147
International App. No: PCT/US2009/038624 (WO2009120995 A3)
U.S. Patent No. 8,846,003 (September 30, 2014)
- 18) Park, K., Acharya, G.S., and Park, H.
Sol-gel phase-reversible hydrogel templates and uses thereof
Filed on September 27, 2008
U.S. Serial No: 12/286,147
International App. No: PCT/US2008/011260 (WO2009042231 A3)
U.S. Patent No. 8,951,567 (February 10, 2015)
- 19) Park, K., Han, B., Kwak, B., and Shin C.S.
System and methods for testing drugs and drug delivery systems
Filed on May 3, 2013
Application No: 13/886,810
U.S. Patent No. 9,081,003 (July 14, 2015)
- 20) Sturek, M. and Park, K.
Drug-eluting stents for adenosine receptor modulation
Filed on October 1, 2010
U.S Patent No. 9,414,901 (August 16, 2016)
- 21) Panitch, A., Paderi, J.E., Park, K., Stuart, K., and Higbee, S.
Collagen-binding synthetic peptidoglycans, preparation, and methods of use
Filed on March 7, 2009
U.S. Serial No: 12/286,147
International App. No: PCT/US2009/038624 (WO2009120995 A3)
U.S. Patent No. 9,512,192 (December 6, 2016)
- 22) Park, K., Yun, Y., Skidmore, S.M., Lee, B.K., and Fultz, L.
Device for large scale microparticle production and method of using the same
Filed on December 11, 2014
PCT/US2014/041583, WO 2014/197904 A1
Pub. No.: US 2016/0128941 A1 (May 12, 2016)
U.S. Patent No. 9,855,218 (January 2, 2018)
- 23) Garner, J., Park, K., Park, H., Fu, Y., and Barco, C.T.
Novel hydrogel tissue expanders
Application number: PCT/US15/25556
Filed on April 13, 2015

- 24) Garner, J., Skidmore, S., Hadar, J., Han, B. and Park, K
Polymers for inducing 3D spheroid formation of biological cells
Application number: PCT/US15/64271
Filed on December 7, 2015
- 25) Park, K., Yun, Y.H., Skidmore, S.M., Lee, B.K., and Garner, J.S.
Biodegradable polymer formulations for extended efficacy of botulinum toxin
Application number: U.S.S.N. 62/380,229
Filed on August 23, 2017

Proceedings

- 1) Grasel, T.G., Park, K., and Cooper, S.L.: Polyether polyurethane-urea block copolymers: studies of protein adsorption and ex vivo thrombogenicity. *Proc. ACS_Div. Polym. Mat. Sci. Eng.*, 53: 16-20, 1985.
- 2) Park, K., and Park, H.: Enzyme-digestible balloon hydrogels for long-term oral drug delivery: synthesis and characterization. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 14: 41-42, 1987.
- 3) Park, H., Amiji, M., and Park, K.: Mucoadhesive hydrogels effective at neutral pH. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 16: 217-218, 1989.
- 4) Shim, C.K. and Park, K.: Examination of drug release from enzyme-digestible swelling hydrogels. *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 16: 219-220, 1989.
- 5) Park, K. and Lu, D.R.: Theoretical consideration of proteins adsorption on polymer surfaces. *Cardiovascular Science and Technology: Basic and Applied*, I, 155-156, 1989.
- 6) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Enzyme-digestible properties associated with albumin-crosslinked hydrogels for long-term oral drug delivery, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 17: 134-135, 1990.
- 7) Shalaby, W.S.W., Park, K. and Blevins, W.E.: New analytical methods to study the gastric retention of albumin-crosslinked hydrogels in dogs, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 17: 132-133, 1990.
- 8) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Enzyme-induced degradation behavior of albumin-crosslinked hydrogels. *Polymer Preprints*, 31: 169-170, 1990.
- 9) Goodman, S.L., Lai, Q.J., Park, K., and Albrecht, R.M.: Fibrinogen receptor movement on the ventral surface of platelets. *Proc. XIIIth Intern. Congress Electron Microscopy*, 12: 22-23, 1990.
- 10) Park, K. and Amiji, M.: Mechanism of surface passivation by albumin. *Cardiovascular Science and Technology: Basic and Applied*, V., 245-247, 1990.
- 11) Shalaby, W.S.W., Blevins, W.E. and Park, K.: In vitro and in vivo studies of enzyme-digestible hydrogels for oral drug delivery. *Fifth International Symposium on Recent Advances in Drug Delivery Systems*, 1991, pp 26-31.
- 12) Park, K. and Park, H.: Application of quantitative colloidal gold staining to the study of mucin-polymer interactions, *Proceedings of SCANNING 91, J. Scanning Microscopy*, 13 (Suppl. I): 41 - 42, 1991.
- 13) Amiji, M. and Park, K.: Mechanism study on the prevention of surface-induced platelet activation by adsorbed albumin, *Surfaces in Biomaterials Symposium*, 1991, pp 1-5.
- 14) Kamath, K.R. and Park, K.: Use of gamma irradiation for the preparation of hydrogels from natural polymers, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 19: 42-43, 1992.

- 15) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., M. Levy, and Park, K.: Use of hydrogels for delivery of oral vaccines to prevent pneumonia in ruminants, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 19: 78-79, 1992.
- 16) Bowersock, T.L., Shalaby, W.S.W., White, R., Levy, M., Samuels, M. and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 19: 80-81, 1992.
- 17) Lee, S.J. and Park, K.: Study of polymer-solvent interaction using computational chemistry, *Polymer Preprints*, 33: 74-75, 1992.
- 18) Shalaby, W.S.W., Jackson, R., Blevins, W.E., and Park, K.: Synthesis of enzyme-digestible, interpenetrating hydrogel networks for long-term oral drug delivery, *Polymer Preprints*, 33: 470-471, 1992.
- 19) Amiji, M. and Park, K.: Surface passivating effect of PEO/PPO/PEO triblock copolymers, *Polymer Preprints*, 33: 501-502, 1992.
- 20) Kamath, K.R. and Park, K.: Enzyme-digestible hydrogels from natural polymers: Preparation and characterization, *Polymer Preprints*, 33: 90-91, 1992.
- 21) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., Levy, M., and Park, K.: Use of hydrogels for delivery of oral vaccines to prevent pneumonia in ruminants, *Polymer Preprints*, 33: 63-64, 1992.
- 22) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lalone, R., Levy, M., Ryker, D., and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *Polymer Preprints*, 33: 466-467, 1992.
- 23) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lalone, R., Levy, M., Ryker, D., and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *Proceedings of XXV American Association of Bovine Practitioners Conference and XXVII World Buiatrics Congress*, 207-212, 1992.
- 24) Park, K., Kamath, K.R., and Park, H.: Biodegradable hydrogels for delivery of protein drugs, *Polymer Preprints*, 34(1): 844-845, 1993.
- 25) Kamath, K.R. and Park, K.: Preliminary study on the controlled delivery of a bioactive protein from dextran hydrogels, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 20: 111-112, 1993.
- 26) Kamath, K.R., DeMeo, D., and Park, K.: Albumin grafting on polymer surfaces by gamma-irradiation, *Polymer Preprints*, 34(2): 106-107, 1993.
- 27) Park, K.: Smart hydrogels for pharmaceutical applications, *PharmTech Conference, Proceedings '93*: 495-527, 1993.
- 28) Park, H. and Park, K.: Honey, I blew up the hydrogels! *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 21-22, 1994.
- 29) Bowersock, T., Suckow, M., Park, H., and Park, K.: Oral vaccination of animals via hydrogels, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 79-80, 1994.
- 30) Li, T., Lee, S.J., Chen, W.-Y., Kildsig, D.O., and Park, K.: Computer simulation of drug diffusion in amorphous polyethylene, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 535-536, 1994.
- 31) Lee, S.J. and Park, K.: Synthesis of sol-gel phase-reversible hydrogels sensitive to glucose, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 93-94, 1994.
- 32) Bowersock, T.L., HogenEsch, H., Park, H., and Park, K.: Uptake of alginate microspheres by Peyer's patches, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 839-840, 1994.

- 33) Suckow, M.A., Bowersock, T.L., and Park, K.: Stimulation of immunity to pasteurized *Mycobacterium avium* in rabbits by oral immunization using a microsphere delivery system, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 21: 843-844, 1994.
- 34) Porter, R.E., Bowersock, T.L., and Park, K.: Oral vaccination of chickens with hydrogels to promote enteric mucosal immune responses, *Proc. AVMA/AAAP Annual Meeting*, 1994.
- 35) Lee, S.J. and Park, K.: Synthesis and characterization of sol-gel phase-reversible hydrogels sensitive to glucose, *Polymer Preprints*, 35(2): 391-392, 1994.
- 36) Bowersock, T.L., HogenEsch, H., Suckow, M., Davis-Snyder, E., Borie, D., Park, H., and Park, K.: Oral administration of mice with ovalbumin encapsulated in alginate microspheres, *Polymer Preprints*, 35(2): 405-406, 1994.
- 37) Paparella, A. and Park, K.: Synthesis of polysaccharide chemical gels by gamma-irradiation, *Polymer Preprints*, 35(2): 3884-885, 1994.
- 38) Park, K., Bowersock, T.L., HogenEsch, H., Suckow, M., Porter, R.E., Jackson, R., and Park, H.: Oral vaccination hydrogel systems, *Seventh International Symposium on Recent Advances in Drug Delivery Systems*, pp. 51-54, 1995.
- 39) McPherson, T., Carignano, M.A., Szleifer, I., and Park, K.: Analysis on the prevention of protein adsorption to solid surfaces, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 22: 57-58, 1995.
- 40) Park, K. and Li, T.: Computer simulation in drug delivery and biomaterials research: Oral vaccination hydrogel systems, *Third International Symposium on Biomaterials and Drug Delivery Systems*, pp. 162-167, 1996.
- 41) Obaidat, A.A. and Park, K.: Characterization of the phase transition of glucose sensitive hydrogels, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 23: 214-215, 1996.
- 42) Li, T., Kildsig, D.O., and Park, K.: Computer simulation of drug diffusion in amorphous polymers, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 23: 459-460, 1996.
- 43) Obaidat, A.A. and Park, K.: Glucose-dependent release of proteins through glucose-sensitive phase-reversible hydrogel membranes, *Polymer Preprints*, 37(2): 143-144, 1996.
- 44) Bowersock, T.L., HogenEsch, H., Wang, B., Torregrosa, S., Ryker, D., Park, H., Blevins, W., and Park, K.: Oral administration of alginate microspheres stimulates pulmonary immunity in cattle, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 24: 149-150, 1997.
- 45) Kidane, A., McPherson, T.B., Szleifer, I. and Park, K.: Protein adsorption on PEO-grafted surfaces: Theoretical analysis and experimental observations, *Proc. ACS Div. Polym. Mat. Sci. Eng.*, 77: 570-571, 1997.
- 46) Gemeinhart, R.A., Park, K., and Eigler, N.L.: Covalent grafting of ethylene glycol-butadiene block copolymers onto polyurethane surfaces by γ -irradiation, *Proc. ACS Div. Polym. Mat. Sci. Eng.*, 77: 580-581, 1997.
- 47) Park, K.: Biocompatibility of implantable drug delivery systems, *Abstract Book. CRS-CPA Joint Workshop on Recent Advances in Drug Delivery Science and Technology*, 59-88, 1997.
- 48) Park, K.: Biocompatibility of biomaterials, *Proceedings of KSP-CRS Joint Symposium on Recent Advances in Drug Delivery and Biomaterials*, 604-633, 1997.
- 49) Park, K.: Superporous hydrogel composites: A new class of hydrogels for biomedical and pharmaceutical applications, *Fifth European Symposium on Controlled Drug Delivery*, 21-22, 1998.
- 50) Eigler, N., Park, K., Makkar, R., and Litvack, F.: Ribozyme gene therapy to prevent restenosis after coronary angioplasty: Stent regulation of the microenvironment, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 25: 1, 1998.

- 51) Chen, J., Park, H., and Park, K.: Synthesis of superporous hydrogel composites, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 25: 60-61, 1998.
- 52) Gemeinhart, R.A., Park, K., and Eigler, N.L.: Polyurethane tubes for localized drug delivery, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 25: 360-361, 1998.
- 53) Chen, J., Park, H., and Park, K.: Superporous hydrogels: Fast responsive hydrogel systems. *Proc. ACS Div. Polym. Mat. Sci. Eng.*, 79: 236-237, 1998.
- 54) Park, K., Chen, J., and Park, H.: Superporous hydrogel composites: Synthesis, characterization, and application. *Polymer Preprint*, 39(2): 192-193, 1998.
- 55) Park, K.: Development and evaluation of medical devices and materials, *Proceeding of the Second KFDA International Symposium on Current Status of International Regulation on Food and Drug*. Korea Food and Drug Administration, Seoul, Korea, 1998, pp. 101-118.
- 56) Park, K., Chen, J. and Park, H.: Hydrogels in drug delivery, *Ninth International Symposium on Recent Advances in Drug Delivery Systems*, 1999, pp. 35-37.
- 57) Gemeinhart, R.A., Park, H., Park, K.: Structures of superporous hydrogels in the dried and swollen states, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 26: 78-79, 1999.
- 58) Kidane, A., Shim, H.S., and Park, K.: Silver ion release from PEO hydrogels, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 27:622-623, 2000.
- 59) Seong, H., Choi, W.-M., Kim, J.-C., Thompson, D., and Park, K.: Preparation of liposomes containing dibranched-amino acids and characterization of their glucose-binding properties, *Polymer Preprint* 41(2): 1655-1656, 2000.
- 60) 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.
- 61) Ooya, T, Lee, J., and Park, K.: Star-shaped poly(ethylene glycol monomethacrylate) and polyglycerol dendrimers as new drug delivery systems, *Polymer Preprints*, 43(2): 717-718, 2002. (224th ACS National Meeting, Boston, August 18-22).
- 62) Byrne, M.E., Park, K., and Peppas, N.A.: Biomimetic networks for selective recognition of biomolecules, *Mat. Res. Soc. Symp. Proc.*, Vol. 724: N9.3.1-N9.3.7, 2002.
- 63) Byrne, M.E., Hilt, J.Z., Bashir, R., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition and microsensing of biologically significant molecules, *Trans. Soc. Biomater.* 28: 78. 2002.
- 64) Byrne, M.E., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition of biologicals: Theoretical and experimental analysis. *Bull. Amer. Phys. Soc.*, 47: 395-396, 2002.
- 65) Yeo, Y., Cho, Y.W., and Park, K.: Biomimetic materials, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 30: #49, 2003.
- 66) Ooya, T., Lee, J., and Park, K.: Polyglycerol dendrimers as a new solubility enhancer for poorly water-soluble drugs, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 30 : #79, 2003.
- 67) 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.
- 68) Yeo, Y. and Park, K.: New microencapsulation technique using an ultrasonic atomizer based on the solvent exchange method. *Proc. ACS Div. Polym. Mat. Sci. Eng.*, 89: 143-144, 2003.
- 69) Fu, Y., Jeong, S.H., Kim, J., and Park, K.L: Preparation of fast dissolving tablets based on mannose. *Proc. ACS Div. Polym. Mat. Sci. Eng.*, 89: 821-822, 2003.

- 70) Huh, K.M., Kee, S.C., Lee, J., Cho, W.Y., and Park, K.: Hydrotropic polymeric micelle systems for formulation of poorly water-soluble drugs, the 8th European Symposium on Controlled Drug Delivery, 8: 19-21, 2004.
- 71) 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.
- 72) Paul, C., Yeo, Y., Grégory, G., Robinson, J.P. and Park, K., *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #126, 2004.
- 73) Huh, K.M., Lee, S.C., Ooya, T., Lee, J., Cho, Y.W., Archarya, G., and Park, K.: Hydrotropic polymer systems for poorly soluble drugs, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #151, 2004.
- 74) Yeo, Y. and Park, K.: The solvent exchange method using an ultrasonic atomizer, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #363, 2004.
- 75) Park, S., Seomoon, G., Pai, C., Fu, Y., Jeong, S., Kim, J., and Park, K.: Mannose granule based orally disintegrating tablet, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #433, 2004.
- 76) Cho, Y., Jeong, S., Kim, J., and Park, K.: Polymeric delivery systems for ribozymes. II: pH-induced nanoparticle formation and release of ribozymes from PEG-b-poly(L-histidine) complexes, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #603, 2004.
- 77) Jeong, J., Cho, Y., Park, K., and Kim, J.: Polymeric delivery systems for ribozymes. I: Self-assembly of ribozymes with PEG-b-poly(L-histidine), *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #610, 2004.
- 78) Huh, K., Lee, S., Lee, J., Cho, Y., and Park, K.: Design of hydrotropic polymer micelles for solubilization of poorly water-soluble drugs, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #676, 2004.
- 79) Ooya, T., Lee, J., and Park, K.: Solubility enhancement of paclitaxel by PEGylated polyglycerol dendrimers, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 31: #684, 2004.
- 80) Fu, Y. and Park, K.: Application of highly plastic granules in fast-melting tablets, *12th International Symposium on Recent Advances in Drug Delivery Systems*, Feb. 21-24, 2005, Salt Lake City, UT, pp. 39-40.
- 81) Park, J.H., Ye, M., Yeo, Y., Paul, C., Choi, D.K., 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.
- 82) Park, S., Seomoon, G., Hwang, J., Lim, H., Pai, C., Fu, Y., Park, K.: Novel loratadine fast melting tablets based on highly plastic granules, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 32: #670, 2005.
- 83) Fu, Y., Park, K.: Highly plastic granules for preparation of fast-melting tablets, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 32: #497, 2005.
- 84) Kwon, I.K., Shim, W.S., Jeong, S., Kang, E., and Park, K.: Oral drug delivery: Scientific challenges and product development, *Proceedings of the Convention of the Pharmaceutical Society of Korea*, Vol. 2. pp. 182-183, 2005.
- 85) Kang, E., Lee, S.C., and Park, K.: Layer-by-layer assembly of micelle layers, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 33, 2006.
- 86) Kang, E., Kwon, I.K., Wang, H., Ye, M., Park, K., and Cheng, J-X.: Chemical imaging of drug-loaded polymer films and reservoir type microcapsules by coherent anti-Stokes Raman scattering microscopy, *Proc. Intern. Symp. Control. Rel. Bioact. Mater.*, 33, 2006.

- 87) Lee, S.Y., Snider, C., Park, K., and Robinson, J.P.: Microcapsule generation using a compound jet instability, 2006 ASME/International Mechanical Engineering Congress & Exposition (IMECE), Paper #2006-15531, 2006.
- 88) Kwon, I.K., Kim, S., and Park, K.: Nanotechnologies in drug delivery, NanoBio-Tokyo 2006, *Proceedings of UT Symposium on NanoBio Integration*, pp. 95-96.
- 89) Kim, S., Kim, J.Y., Wei, X., Park, K.: Paclitaxel release from hydrotropic micelles containing pH-sensitive moiety, 13th International Symposium on Recent Advances in Drug Delivery Systems, Feb. 26-28, 2007, Salt Lake City, UT, pp. 163-164.
- 90) Min, H.S., Lee, S.C., Park, K., and Huh, K.M.: Synthesis of pH-responsive hydrotropic polymer micelle for solubilization of paclitaxel, 13th International Symposium on Recent Advances in Drug Delivery Systems, Feb. 26-28, 2007, Salt Lake City, UT, pp. 198-199
- 91) Wei, X., Liang, W., and Park, K.: PEGylated chitosan for delivery of cyclosporin A, 13th International Symposium on Recent Advances in Drug Delivery Systems, Feb. 26-28, 2007, Salt Lake City, UT, pp. 274-275.
- 92) Kim, S.W., Kim, J.Y., Huh, K.M., Konno, T., Ishihara, K., and Park, K.: Hydrotropic polymer micelle for delivery of poorly water-soluble drugs, the 10th European Symposium on Controlled Drug Delivery, 10: 59-61, 2008.
- 93) Park, K., Acharya, G., Park, H., and Kwon, I.C.: Nano/micro particles with predefined size and shape, 14th International Symposium on Recent Advances in Drug Delivery Systems, Feb. 15-18, 2009, Salt Lake City, UT, pp. 19-20.
- 94) Zordan, M.D., Grafton, M.M., Acharya, G., Reece, L.M., Aronson, A.I., Park, K., Leary, J.F. A microfluidic-based hybrid SPR/molecular imaging biosensor for the multiplexed detection of food-borne pathogens. *Proceedings of SPIE*. 2009. v.7167. pp. 716706-716706-10.
- 95) Kim, S.W. and Park, K.: Targeted drug delivery: Essential for further advances in drug delivery, The 9th China-Japan-Korea Foresight Joint Symposium on Gene Delivery and the International Workshop on Biomaterials 2010, Changchun, Julin, China, June 21, 2010, pp. 2-3.
- 96) Kim, S.W. and Park, K.: Drug targeting: Myth, reality, and possibility, Abstract Book, Symposium on Innovative Polymers for Controlled Delivery (SIPCD 2010), Suzhou, China, September 14-17, 2010, pp. 42-43.
- 97) Park, K.: Issues to be Resolved for Drug Delivery by 2020, Abstract Book of International Conference on Biomaterials Science in Tsukuba, Epochal Tsukuba, Ibaraki, Japan, March 15-18, 2011, pp. 143-146.
- 98) Park, K.: Drug delivery systems for the new decades: Balance between “iNew” and “Me-too” approaches. *Proceedings of 2012 International Advanced Drug Delivery Symposium in National Tsing Hua University, Hsinchu, Taiwan, April 26-27, 2012*, pp. 1-16.

Abstracts and Presentations

- 1) Park, K., Albrecht, R.M., Simmons, S., and Cooper, S.L.: New approaches to study the adsorbed protein layer on biomaterials: Immunogold bead staining and sequential protein adsorption, *Transactions of the 11th Annual Meeting of the Society for Biomaterials*, 1985, p. 3.
- 2) Park, K. and Cooper, S.L.: Importance of protein composition of the initial monolayer and platelet spreading in acute surface-induced thrombosis, *31st Annual Meeting of ASAIO*, 1985, p. 26.
- 3) Park, K.: Platelet behavior at polymer-blood interfaces, *Devices and Technology Branch Contractors Meeting*, 1986, p. 109.

- 4) Park, K.: New approach to study hydrogel-protein interactions: Quantitative staining of colloidal gold-protein conjugates, *American Association of Pharmaceutical Scientists 1st National Meeting, Pharmaceutics and Drug Delivery Division*, 1986, p. 775.
- 5) Collins, W.E., Park, K., and Cooper, S.L.: Effect of desialylation on fibronectin induced thrombosis on different materials, *American Chemical Society National Meeting, Division of Colloid and Surface Chemistry*, 1986, Abstract #109.
- 6) Park, K.: Platelet behavior at solid-liquid interfaces, *Devices and Technology Branch Contractors Meeting*, 1987, p. 107.
- 7) Park, K. and Gerndt, S.J.: Patchwise adsorption of fibrinogen molecules on the glass surface and its implication in platelet adhesion, *Transactions of the 13th Annual Meeting of the Society for Biomaterials*, 1987, p. 58.
- 8) Park, K.: Platelet behavior at solid-liquid interfaces, *Devices and Technology Branch Contractors Meeting*, 1988, p. 63.
- 9) Park, K.: Factors affecting efficiency of colloidal-phase labelling systems, *The 7th Pfefferkorn Conference on Science of Biological Specimen Preparation*, 1988, p. 10.
- 10) Park, K. and Park, H.: Examination of cytoskeletal structures of spread platelets using video-enhanced interference reflection microscopy, *The 7th Pfefferkorn Conference on Science of Biological Specimen Preparation*, 1988, p. 16.
- 11) Lu, D.R. and Park, K.: Adsorption of protein drugs on polymer surfaces: A computer simulation., *American Association of Pharmaceutical Scientists Fourth National Meeting, Pharmaceutical Drug Delivery Division*, 1989, Abstract #P1096.
- 12) Shim, C.K., Kamath, K.R., Shalaby, W.S.W., and Park, K.: Swelling and drug release properties of enzyme-digestible PVP hydrogels, *American Association of Pharmaceutical Scientists Fourth National Meeting, Pharmaceutical Drug Delivery Division*, 1989, Abstract #1031.
- 13) Park, K. and Park, H.: Interfacial behavior of fibrinogen during platelet spreading on glass surfaces, *American Chemical Society National Meeting, 63rd Colloid & Surface Science Symposium, Biological Materials*, 1989, Abstract #286.
- 14) Park, K. and Park, H.: Platelet behavior at the solid-liquid interface: Examination using video-enhanced interference reflection microscopy, *Transactions of the 15th Annual Meeting of the Society for Biomaterials*, 1989, p. 80.
- 15) Lu, D.R. and Park, K.: Calculation of protein-polymer surface interactions by computer simulation, *Transactions of the 16th Annual Meeting of the Society for Biomaterials*, 1990, Abstract #73.
- 16) Park, K., Mao, F.W., Amiji, M., and Park, H.: The minimum amount of biologically active fibrinogen necessary for surface-induced platelet activation, *Transactions of the 16th Annual Meeting of the Society for Biomaterials*, 1990, Abstract #245.
- 17) Shalaby, W.S.W., Park, K., and Blevins, W.E.: Factors important to gastric retention of hydrogels. *Program and Abstracts of the 17th International Symposium on Controlled Release of Bioactive Materials*, 1990, Abstract #D240.
- 18) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Biochemical and mechanical characterization of enzyme-digestible hydrogels, *Program and Abstracts of the 17th International Symposium on Controlled Release of Bioactive Materials*, 1990, Abstract #D241.
- 19) Shalaby, W.S.W., Blevins, W.E., and Park, K.: Enzyme-induced degradation behavior of albumin-crosslinked hydrogels, *The 200th American Chemical Society National Meeting, Division of Polymer Chemistry*, 1990, Abstract #73.

- 20) Lu, D.R. and Park, K.: The effects of surface-hydrophobicity on the conformational changes of adsorbed fibrinogen: A FTIR-ATR study, *American Association of Pharmaceutical Scientists Fifth National Meeting, Pharmaceutical Drug Delivery Division*, 1990, Abstract #7049.
- 21) Lu, D.R. and Park, K.: Enzyme digestion studies for conformational changes of adsorbed fibrinogen on glass, *American Association of Pharmaceutical Scientists Fifth National Meeting, Pharmaceutical Drug Delivery Division*, 1990, Abstract #7051.
- 22) Park, K. and Park, H.: Application of quantitative colloidal gold staining to the study of mucin-polymer interactions, *Scanning '91*, 1991, Abstract I-41.
- 23) Amiji, M., Park, H. and Park, K.: Prevention of protein adsorption and platelet adhesion by steric repulsion, *Transactions of the 17th Annual Meeting of the Society for Biomaterials*, 1991, Abstract #41.
- 24) Lu, D.R. and Park, K.: Calculation of solvation interaction energies for protein adsorption on polymer surfaces, *Transactions of the 17th Annual Meeting of the Society for Biomaterials*, 1991, Abstract #80.
- 25) Tseng, Y.C., Kildsig, D.O., and Park, K.: Synthesis of photoreactive poly(ethylene glycol) and its application to surface modifications, *Transactions of the 17th Annual Meeting of the Society for Biomaterials*, 1991, Abstract #178.
- 26) Lee, S.J., Lu, D.R., and Park, K.: Calculation of protein adsorption energy on polymer surfaces, *Aspects of Drug Design*, 1991, Abstract #8.
- 27) Amiji, M. and Park, K.: Mechanism study on the prevention of surface-induced platelet activation by adsorbed albumin, *Surfaces in Biomaterials Symposium*, 1991, Abstract #5.
- 28) Park, K. and Tseng, Y.C.: Thermografting of albumin onto polypropylene films, *Cardiovascular Science and Technology Conference*, 1991, page 143.
- 29) Kamath, K.R. and Park, K.: Use of gamma irradiation for the preparation of hydrogels from natural polymers, *Program and Abstracts of the 19th International Symposium on Controlled Release of Bioactive Materials*, Abstract #121, 1992.
- 30) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., Levy, M., and Park, K.: Use of hydrogels for delivery of oral vaccines to prevent pneumonia in ruminants, *Program and Abstracts of the 19th International Symposium on Controlled Release of Bioactive Materials*, Abstract #202, 1992.
- 31) Bowersock, T.L., Shalaby, W.S.W., White, R., Levy, M., Samuels, M., and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *Program and Abstracts of the 19th International Symposium on Controlled Release of Bioactive Materials*, Abstract #203, 1992.
- 32) Lee, S.J. and Park, K.: Study of polymer-solvent interaction using computational chemistry, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, 1992.
- 33) Shalaby, W.S.W., Jackson, R., Blevins, W.E., and Park, K.: Synthesis of enzyme-digestible, interpenetrating hydrogel networks for long-term oral drug delivery, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #190, 1992.
- 34) Amiji, M. and Park, K.: Surface passivating effect of PEO/PPO/PEO triblock copolymers, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #276, 1992.
- 35) Kamath, K.R. and Park, K.: Enzyme-digestible hydrogels from natural polymers: Preparation and characterization, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #212, 1992.
- 36) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., Levy, M., and Park, K.: Use of hydrogels for delivery of oral vaccines to prevent pneumonia in ruminants, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #167, 1992.

- 37) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lalone, R., Levy, M., Ryker, D., and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *The 204th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #202, 1992.
- 38) Amiji, M. and Park, K.: Analysis on the surface adsorption of PEO/PPO/ PEO triblock copolymers, *The 204th American Chemical Society National Meeting, Division of Colloid & Surface Chemistry*, Abstract #14, 1992.
- 39) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lalone, R., Levy, M., Ryker, D., and Park, K.: Use of hydrogels to vaccinate calves orally for pneumonic pasteurellosis, *XXV American Association of Bovine Practitioners Conference*, 1992.
- 40) Amiji, M. and Park, K.: Prevention of protein adsorption on surfaces by PEO/PPO/PEO triblock copolymers, *American Association of Pharmaceutical Scientists 7th National Meeting, Pharmaceutical Technology Division*, 1992, Abstract #PT6004.
- 41) Park, K., Kamath, K.R., and Park, H.: Biodegradable hydrogels for delivery of protein drugs, *The 205th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #474, 1993.
- 42) Kamath, K.R., Shim, H.S., and Park, K.: Albumin grafting on dimethyldichlorosilane-coated glass using gamma-irradiation, *Transactions of the 18th Annual Meeting of the Society for Biomaterials*, Abstract #325, 1993.
- 43) Lee, S.J. and Park, K.: Calculation of distance dependent protein-polymer surface interactions by computer simulation, *Transactions of the 18th Annual Meeting of the Society for Biomaterials*, Abstract #180, 1993.
- 44) Kamath, K.R. and Park, K.: Preliminary study on the controlled delivery of a bioactive protein from dextran hydrogels, *Program and Abstracts of the 19th International Symposium on Controlled Release of Bioactive Materials*, Abstract #222, 1993.
- 45) Park, K., Kamath, K.R., and Park, H.: Synthesis of biodegradable hydrogels from natural polymers for controlled delivery of high molecular weight drugs, *Second National Meeting of Bio/Environmentally Degradable Polymer Society*, Abstract #8, 1993.
- 46) Kamath, K.R., DeMeo, D., and Park, K.: Albumin grafting on polymer surfaces by gamma-irradiation, *The 206th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract p. 106, 1993.
- 47) Park, K.: Protein interactions with surfaces, *The 40th National Symposium of American Vacuum Society*, p. 130, 1993
- 48) McPherson, T., Lee, S.J., and Park, K.: Analysis on the prevention of protein adsorption and cell adhesion using computer simulation, scaling analysis, and experiments, *The 207th American Chemical Society National Meeting, Division of Colloid and Surface Chemistry*, Biotechnology Secretariat, Abstract #160, 1994.
- 49) Park, K., Kamath, K.R., Park, H.: Biodegradable hydrogels for pulsatile protein delivery, *The 207th American Chemical Society National Meeting, Division of Biotechnology*, Division of Colloid and Surface Chemistry, Abstract #70, 1994.
- 50) Amiji, M. and Park, K.: Surface modification by physical adsorption of PEO/PPO/PEO triblock copolymers, *The 20th Annual Meeting of the Society for Biomaterials*, Abstract #137, 1994.
- 51) Park, H. and Park, K.: Hydrogel foams: A new type of fast swelling hydrogels, *The 20th Annual Meeting of the Society for Biomaterials*, Abstract #158, 1994.

- 52) Kamath, K.R., Dandlich, M.J., Marchant, R.E., and Park, K.: Platelet activation on plasma polymerized ethylene oxide and N-vinyl-2-pyrrolidone films, *The 20th Annual Meeting of the Society for Biomaterials*, Abstract #346, 1994.
- 53) Park, H. and Park, K.: Honey, I blew up the hydrogels! *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #111, 1994.
- 54) Park, K., Bowersock, T., Suckow, M., and Park, H.: Oral vaccination of animals via hydrogels, *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #208, 1994.
- 55) Li, T., Lee, S.J., Chen, W.-Y., Kildsig, D.O., and Park, K.: Computer simulation of drug diffusion in amorphous polyethylene, *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #1280, 1994.
- 56) Lee, S.J. and Park, K.: Synthesis of sol-gel phase-reversible hydrogels sensitive to glucose, *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #215, 1994.
- 57) Bowersock, T.L., HogenEsch, H., Park, H., and Park, K.: Uptake of alginate microspheres by Peyer's patches, *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #145, 1994.
- 58) Suckow, M.A., Bowersock, T.L., and Park, K.: Stimulation of immunity to pasteurella Mutocida in rabbits by oral immunization using a microsphere delivery system, *Program and Abstracts of the 21st International Symposium on Controlled Release of Bioactive Materials*, Abstract #1457, 1994.
- 59) Porter, R.E., Bowersock, T.L., and Park, K.: Oral vaccination of chickens with hydrogels to promote enteric mucosal immune responses, *Proc. AVMA/AAAP Annual Meeting*, 1994.
- 60) Lee, S.J. and Park, K.: Synthesis and characterization of sol-gel phase-reversible hydrogels sensitive to glucose, *The 208th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #160, 1994.
- 61) Bowersock, T.L., HogenEsch, H., Suckow, M., Davis-Snyder, E., Borie, D., Park, H., and Park, K.: Oral administration of mice with ovalbumin encapsulated in alginate microspheres, *The 208th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #167, 1994.
- 62) Paparella, A. and Park, K.: Synthesis of polysaccharide chemical gels by gamma-irradiation, *The 208th American Chemical Society National Meeting, Division of Polymer Chemistry*, Abstract #315, 1994.
- 63) Park, K. and Bowersock, T.L.: Oral vaccination hydrogel systems, *International Symposium on Biomaterials and Drug Delivery Systems, Korea Institute of Science and Technology*, Seoul, Korea, p. 19, 1994.
- 64) McPherson, T.B., Lee, S.J., and Park, K.: Scaling analysis of the prevention of protein adsorption by grafted PEO chains, *The 21st Annual Meeting of the Society for Biomaterials*, Abstract #224, 1995.
- 65) Lee, S.J. and Park, K.: Synthesis of glucose-sensitive phase-reversible hydrogels, *J. Molecular Recognition*, 8(3): 202, 1995.
- 66) Bowersock, T.L., HogenEsch, H., Suckow, M., Park, H., and Park, K.: Oral immunization of antigen encapsulated in sodium alginate microspheres, *The 28th Great Lakes Regional Meeting of the American Chemical Society*, LaCrosse, WI, June 5-8, 1995.
- 67) Bowersock, T.L., Borie, D., Torregrosa, S., Park, H., and Park, K.: Oral administration of alginate microspheres stimulates pulmonary immunity in cattle, *Proc. Fourth Inter. Vet. Immun. Symp.*, Davis, CA, p. 257, July 16-21, 1995.

- 68) McPherson, T., Carignano, M.A., Szleifer, I., and Park, K.: Analysis on the prevention of protein adsorption to solid surfaces, *Program of the 22nd International Symposium on Controlled Release of Bioactive Materials*, Abstract #203, 1995.
- 69) Park, K.: Smart hydrogels for pharmaceutical applications, *Strategies for new drug and vaccine development, 5th Annual Meeting of the Society of Biomedical Research*, September 13-16, 1995, p. 31.
- 70) Abidat, A. and Park, K.: Gel-sol phase-reversible hydrogels sensitive to glucose, *American Association of Pharmaceutical Scientists Tenth Annual Meeting, Pharmaceutical Drug Delivery Division*, Abstract #PDD 7131, Miami Beach, FL, Nov. 5-9, 1995.
- 71) HogenEsch, H., Torregrosa, S.E., Borie, D., Park, H., and Park, K., and Bowersock, T.L.: Predominant isotype of specific antibody-secreting cells in bronchoalveolar lavage fluid of calves depends on the route of inoculation used for priming, *ACVP/ASVCP Annual Meeting*, Atlanta, GA, Nov. 14-15, 1995.
- 72) Makkar, R.R., Kaul, S., Masato, N., Dev, V., Litvack, F.I., Park, K., McPherson, T., Badimon, J.J., Sheth, S.S., and Eigler, N.L.: Modulation of acute stent thrombosis by metal surface characteristics and shear rate, *The 68th American Heart Association Meeting (Circulation, 92: I-86)*, Anaheim, CA, Nov. 14-16, 1995.
- 73) McPherson, T., Park, K., and Johnson, P.C.: Prevention of platelet adhesion by surface-grafted PEO, *The 22nd Annual Meeting of the Society for Biomaterials*, Abstract #768, 1996.
- 74) Kidane A., Szleifer I., Park K.: Protein adsorption kinetics on PEO-grafted glass, *Transactions of 5th World Biomaterials Congress*, Vol. 2, p. 535, May 29-June 2, 1996. (*The 22nd Annual Meeting of the Society for Biomaterials*, Abstract #769), 1996.
- 75) Li, T. and Park, K.: Monte Carlo simulation of surface grafted peo chains, *The 23rd Annual Meeting of the Society for Biomaterials*, Abstract #124, April 30-May 4, 1997.
- 76) Li, T., Kildsig, D.O., and Park, K.: Molecular dynamics simulation of diffusion of small molecules in amorphous polymers, *The 23rd Annual Meeting of the Society for Biomaterials*, Abstract #316, April 30-May 4, 1997.
- 77) Kidane, A., Szabocsik, J.M., and Park, K.: Lysozyme deposition on poly(hema) contact lens, *The 23rd Annual Meeting of the Society for Biomaterials*, Abstract #366, April 30-May 4, 1997.
- 78) Bowersock, T.L., HogenEsch, H., Wang, B., Torregrosa, S., Ryker, D., Park, H., Blevins, B., and Park, K.: Oral administration of alginate microspheres stimulates pulmonary immunity in cattle, *Program of the 24th International Symposium on Controlled Release of Bioactive Materials*, Abstract #316, Stockholm, Sweden, June 15-19, 1997.
- 79) Jo, S., Gemeinhart, R.A., Park, K.: Prevention of protein adsorption on solid surfaces by self-assembled poly(ethylene glycol) grafts, *71st Colloid & Surfaces Science Symposium*, Abstract #150, University of Delaware, Newark, DE, June 29-July 2, 1997.
- 80) Jackson, R. and Park, K.: Preparation of 2-5 μ m alginate microparticles by emulsification for oral vaccine delivery: Effects of surfactant type, crosslinker, and mixer speed on particle size, *American Association of Pharmaceutical Scientists 12th National Meeting*, Abstract #1152, 1997. (*Pharm. Res. 14 (11 supplement): S-47*, 1997).
- 81) Jo, S. and Park, K.: A new preparation method for poly(ethylene glycol) (PEG) hydrogels using silanated PEGs, *American Association of Pharmaceutical Scientists 12th National Meeting*, Abstract #2210, 1997. (*Pharm. Res. 14 (11 supplement): S-293*, 1997).
- 82) Park, H., Hwang, S.J., Chen, J., and Park, K.: Synthesis of superporous hydrogels as a platform for oral drug delivery, *American Association of Pharmaceutical Scientists 12th National Meeting, 1997*, Abstract #3488. (*Pharm. Res. 14 (11 supplement): S-627*, 1997).

- 83) Li, T. and Park, K.: Fractal analysis of pharmaceutical solid particles, *American Association of Pharmaceutical Scientists 12th National Meeting, 1997*, Abstract #4202. (Pharm. Res. 14 (11 supplement): S-693, 1997).
- 84) Park, K. and Li, T.: Fractal analysis of pharmaceutical particles, *1998 Conference on Pharmaceutical Science and Technology (in conjunction with the 28th Annual Meeting of the Fine Particle Society)*, Proceedings of the Abstracts, p. 17, April 1-3, 1998.
- 85) Kidane, A. and Park, K.: Complement activation by PEO-grafted Glass surfaces, *The 24th Annual Meeting of the Society for Biomaterials*, Abstract #509, April 22-26, 1998.
- 86) Kidane, A., McPherson, T., Park, K., and Szleifer, I.: Protein adsorption on PEO grafted surface: Experimental observation and theoretical prediction. *The 24th Annual Meeting of the Society for Biomaterials*, Abstract #516, April 22-26, 1998.
- 87) Kidane, A., McPherson, T., Shim, H.S., and Park, K.: PEG grafting to polyester through a priming layer. *The 24th Annual Meeting of the Society for Biomaterials*, Abstract #530, April 22-26, 1998.
- 88) Jo, S. and Park, K.: Surface modification using silanated poly(ethylene glycol). *The 24th Annual Meeting of the Society for Biomaterials*, Abstract #536, April 22-26, 1998.
- 89) Jo, S. and Park, K.: Synthesis and characterization of thermoreversible sucrose hydrogels (Sucrogels), *The American Chemical Society National Meeting, Division of Cellulose, Paper, and Textile*, Abstract #17, 1998.
- 90) Chen, J., Park, H., and Park, K.: Superporous hydrogels: Fast responsive hydrogel systems, *The American Chemical Society National Meeting, PMSE and Polymer Chemistry Divisions*, Abstract #68, 1998.
- 91) Park, K., Chen, J., and Park, H.: Superporous hydrogel composites: synthesis, characterization, and application, *The American Chemical Society National Meeting, Polymer Chemistry Divisions*, Abstract #189, 1998.
- 92) Li, T., Morris, K., and Park, K.: Fractal analysis of acetaminophen crystal during dissolution, *American Association of Pharmaceutical Scientists 13th National Meeting, 1998*, Abstract #2608. (PharmSci. Supplement 1(1): S-313, 1998).
- 93) Gemeinhart, R. and Park, K.: Tablet formulation using superporous hydrogel, *American Association of Pharmaceutical Scientists 13th National Meeting, 1998*, Abstract #3240. (PharmSci. Supplement 1(1): S-432, 1998).
- 94) Kim, J.J. and Park, K.: Preparation and characterization of concanavalin A-polymer conjugates for glucose-sensitive hydrogels, *American Association of Pharmaceutical Scientists 13th National Meeting, 1998*, Abstract #1327. (PharmSci. Supplement 1(1): S-97, 1998).
- 95) Gemeinhart, R., Park, H. and Park, K.: Compressed superporous hydrogels: Compact, fast swelling hydrogel system, *The 25th Annual Meeting of the Society for Biomaterials*, April 22-26, 1999.
- 96) Li, T., Morris, K., and Park, K.: Fractal analysis of crystal dissolution, *American Association of Pharmaceutical Scientists 13th National Meeting*, New Orleans, LA, Nov. 14-18, 1999.
- 97) Baek, N., Bae, Y.H., and Park, K.: Control of the swelling rate of superporous hydrogels, *Sixth World Biomaterials Congress*, Kamuela, HI, Abstract #1494, May 15-20, 2000.
- 98) Kim, J.J. and Park, K.: Modulated insulin delivery using phase-reversible glucose-sensitive hydrogels, *2000 Prague Meetings on Macromolecules, 40th Microsymposium, Polymers in Medicine*, International Union of Pure and Applied Chemistry, Czech Chemical Society, Prague, Czech, Abstract #SL12, July 17-20, 2000.

- 99) Byrne, M., Park, K., and Peppas, N.: Non-covalent molecular imprinting of glucose: Recognition in aqueous media, *1st International Workshop on Molecular Imprinting*, Cardiff, UK, July 2-5, 2000, p. 111.
- 100) Seong, H., Choi, W.-M., Kim, J.-C., Thompson, D., and Park, K.: Preparation of liposomes containing dibranched-amino acids and characterization of their glucose-binding properties, *220th ACS National Meeting, Division of Polymer Chemistry (Subdivision; 4th International Biorelated Polymer Symposium)*, Washington, D.C., Abstract #229, August 20-24, 2000.
- 101) Byrne, M.E., Park, K., and Peppas, N.A.: Non-covalent molecular imprinting of glucose in polar protic media, *American Association of Pharmaceutical Scientists 13th National Meeting*, Indianapolis, IN, Abstract #2404, October 29-November 2, 2000.
- 102) Li, T., Morris, K., and Park, K.: Influence of tailor-made additives on the formation of etching patterns of acetaminophen single crystals, *American Association of Pharmaceutical Scientists 13th National Meeting*, Indianapolis, IN, Abstract #3596, October 29-November 2, 2000.
- 103) Wen, H., Li, T., Morris, K., and Park, K.: Characterization of etching patterns of crystal surfaces, *American Association of Pharmaceutical Scientists National Meeting*, Denver, CO., Abstract #T3625, October 21-25, 2001.
- 104) Fu, Y., Wang, D., and Park, K.: Study of temperature and feed concentrations on the morphology and flowability of PVP and acetaminophen spray dried particles, *American Association of Pharmaceutical Scientists National Meeting*, Denver, CO., Abstract #W4715, October 21-25, 2001.
- 105) Qiu, Y., Gemeinhart, R., and Park, K.: Characterization of etching patterns of crystal surfaces, *American Association of Pharmaceutical Scientists National Meeting*, Denver, CO., Abstract #T3625, October 21-25, 2001.
- 106) Li, T., Morris, K., and Park, K.: Influence of tailor-made additives on etching patterns of acetaminophen single crystals: Understanding through modeling and Monte Carlo simulation, *American Association of Pharmaceutical Scientists National Meeting*, Denver, CO., Abstract #W4515, October 21-25, 2001.
- 107) Haydon, K.S., Park, K., and Sinclair, J.L.: Effect of particle size on pickup velocity of cohesive particles, *The American Institute of Chemical Engineers Annual Meeting*, Nov. 4-9, 2001, Abstract #195b, Reno, NV.
- 108) Byrn, M., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition of biologicals: Theoretical and experimental analysis, *2002 APS Annual March Meeting*, Indianapolis, IN, March 18-22, 2002.
- 109) Byrn, M., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition of biologically significant molecules, *2002 MRS Spring Meeting, MRS Symposium N: Biological and Biomimetic Materials-properties to Function*, San Francisco, CA, April 1-5, 2002.
- 110) Byrn, M., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition of biologicals: Theoretical and experimental analysis, *Bull. Amer. Phys. Soc.*, 47, 395-396, 2002.
- 111) Hilt, J.Z., Byrne, M.E., Bashir, R., Park, K., and Peppas, N.A.: Micropatterned environmentally sensitive and analyte specific polymers, *2002 MRS Spring Meeting, MRS Symposium O: Chemilca and Biological Sensors-Materials and Devices*, San Francisco, CA, April 1-5, 2002.
- 112) Byrne, M.E., Hilt, J.Z., Bashir, R., Park, K., and Peppas, N.A.: Biomimetic materials for selective recognition and microsensing of biologically significant molecules, *The 28th Annual Meeting of the Society for Biomaterials*, Abstract #78, April 24-27, 2002.
- 113) Blanchette, J., Lopez, J., Park, K., and Peppas, N.A.: Use of methacrylic acid-containing hydrogels to increase protein transport across the intestinal epithelium, *Bull. Amer. Phys. Soc.*, 47, 394, 2002.

- 114) Henthorn, D.B., Park, K., and Peppas, N.A.: Modeling of the specific binding of biomolecules by molecularly imprinted polymeric gels, *Bull. Amer. Phys. Soc.*, 47, 1166, 2002.
- 115) Lee, S., Acharya, G., Lee, J., Chang, C., and Park, K.: Hydrotropic polymers and hydrogels for drug delivery: Solubilization of poorly water-soluble drugs, *The 28th Annual Meeting of the Society for Biomaterials*, Abstract #499, April 24-27, 2002.
- 116) Mun, G.A., Nurkeeva, Z.S., Nam, I.K., Khutoryanskiy, V.V., and Park, K.: New stimuli-responsive polymers based on vinyl ethers and their interpolymer complexes as materials for development of drug release systems, *The World Congress of Korean and Korean-Ethnic Scientists and Engineers-2002*, Seoul, Korea, July 8-13, 2002.
- 117) Seong, H., Lee, H., and Park, K.: Binding of glucose to molecularly imprinted polymers, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #124, July 20-25, 2002.
- 118) Kim, D.J., Seo, K., and Park, K.: Polymer composition and acidification effects on the swelling properties of P(AM-co-AA) superporous hydrogels, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #9, July 20-25, 2002.
- 119) Kim, D.J., Seo, K., and Park, K.: Swelling and mechanical properties of superporous hydrogels of P(AM-CO-AA)/PEI IPNS, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #224, July 20-25, 2002.
- 120) Lee, J., Acharya, G., Lee, S., and Park, K.: Structural influence of hydrotropic agents on the solubilization of paclitaxel, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #259, July 20-25, 2002.
- 121) Lee, S., Lee, J., Acharya, G., and Park, K.: Hydrotropic polymers and hydrogels: A new approach for solubilization of poorly water-soluble drugs, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #466, July 20-25, 2002.
- 122) Lee, J., Baek, N., and Park, K.: Hydrotropic agents: A new tool to prepare nano- and micro-particles of poorly soluble drugs, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #264, July 20-25, 2002.
- 123) Konno, T., Watanabe, J., Ishihara, K., Lee, J., Murry, D.J., Galinsky, R.E., and Park, K.: In vivo evaluation of paclitaxel in bioinspired water-soluble phospholipid polymer aggregates, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, July 20-25, 2002.
- 124) Kim, B., Ryu, J., Park, K., Kim, J.: Bioadhesive starch-g-PAA microparticles modified by lectin for mucosal delivery systems, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #274, July 20-25, 2002.
- 125) Yeo, Y., Chen, A.U., Basaran, O.A., and Park, K.: Solvent exchange method: A novel microencapsulation technique, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #294, July 20-25, 2002, pp. 547-548.
- 126) Yeo, Y., Kim, B., Kim, J., Chen, A.U., Basaran, O.A., and Park, K.: Solvent exchange method: Variables for process optimization, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #295, July 20-25, 2002, pp. 549-550.
- 127) Baek, N., Lee, J., Park, K., Shanley, J.F., and Eigler, N.L.: Controlled release of paclitaxel from stents for anti-restenosis, *The 29th Annual Meeting of the Controlled Release Society*, Seoul, Korea, Abstract #365, July 20-25, 2002.
- 128) Ooya, T., Lee, J., and Park, K.: Star-shaped poly(ethylene glycol monomethacrylate) and polyglycerol dendrimers as new drug delivery systems, *Division of Polymer Chemistry, the 224th ACS National Meeting*, Boston, MA, August 18-22, 2002.

- 129) Ooya, T, Lee, J., and Park, K.: Star-shaped poly(ethylene glycol monomethacrylate) and polyglycerol dendrimers: New delivery vehicles for paclitaxel, *2002 AAPS Annual Meeting and Exposition*, Toronto, Canada, Abstract # AM02-00959 (T3477), November 10-14, 2002.
- 130) Byrne, M.E., Park, K., and Peppas, N.A.: Biomimetic networks for selective recognition of biomolecules: Materials for bionanotechnology, *Third Annual BioMEMS and Biomedical Nanotech World 2002*, Columbus, OH, September 6-8, 2002.
- 131) McClean, D., Finkelstein, A., Kar, S., Takizawa, K., Honda, T., Baek, N., Park, K., Fishbein, M.C., Makkar, R., Litvack, F., and Eigler, N.: Local delivery using a stent with programmable pharmacokinetics in vitro and in porcine coronary arteries, *Annual Meeting of the American Heart Association*, Chicago, IL, November 18-21, 2002.
- 132) Henthorn, D.B., Oral, E., Park, K., and Peppas, N.A.: Simulation of polymeric network formation with atomic level interactions for the study of templated and cognitive materials, *Bull. Amer. Phys. Soc.*, 48, 210, 2003.
- 133) Yeo, Y., Chen, A. U., Basaran, O., and Park, K.: 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, Abstract #1, March 3-6, 2003.
- 134) Ooya, T. and Park, K.: Hydrotropic polymers, hydrogels and dendrimers for solubility enhancement of poorly soluble drugs, *11th International Symposium on Recent Advances in Drug Delivery Systems*, Salt Lake City, UT, Abstract #34, March 3-6, 2003.
- 135) Konno, T., Watanabe, J., Ishihara, K, Lee, J., Murry, D.J., Galinsky, R., and Park, K.: The amphiphilic phospholipid polymer as a novel solubilizer for poorly soluble drugs, *11th International Symposium on Recent Advances in Drug Delivery Systems*, Salt Lake City, UT, Abstract #44, March 3-6, 2003.
- 136) Blanchette, J.O., Park, K., and Peppas, N.A.: Use of complexation hydrogels for oral administration of chemotherapeutic agents, *29th Annual Meeting of Society for Biomaterials*, Reno, NV, Abstract #246, April 30-May 3, 2003.
- 137) Yeo, Y. and Park, K.: New microencapsulation technique using an ultrasonic atomizer based on the solvent exchange method, *The American Chemical Society National Meeting, Div. Polym. Mat. Sci. Eng.*, Abstract #94, September 8, 2003.
- 138) Fu, Y., Jeong, S.H., Kim, J., and Park, K.L: Preparation of fast dissolving tablets based on mannose. *The American Chemical Society National Meeting, Div. Polym. Mat. Sci. Eng.*, Abstract #480, September 11, 2003.
- 139) Yeo, Y. and Park, K.: Process parameters involved in a new microencapsulation technique based on the solvent exchange method, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #W4206, October 26-30, 2003.
- 140) Paul, C. S., Yeo, Y., Chen, A. U.-T., Basaran, O. A., and Park, K.: Microencapsulation of protein drugs using the solvent exchange method, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #AM03-02825 (W4165), October 26-30, 2003.
- 141) Yang, S., Fu, Y., Jeong, S., and Park, K.: Poly(acrylic acid) superporous hydrogel microparticles as a super-disintegrant in fast disintegrating tablets, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #1968 (W4129), October 26-30, 2003.
- 142) Fu, Y., Jeong, S., Kim, J., and Park, K.: Moisture treatment of mannose tablets for making fast dissolving tablets, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #W4115, October 26-30, 2003.

- 143) Qiu, Y., Omidian, H., and Park, K.: Hydrogels having enhanced elasticity and mechanical properties, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #W4178, October 26-30, 2003.
- 144) Wen, H., Morris, K., and Park, K.: Synergic effects of polymeric additives on dissolution and crystallization of acetaminophen: Dynamic adsorption model, *2003 AAPS Annual Meeting and Exposition*, Salt Lake City, UT, Abstract #1968 (W4129), October 26-30, 2003.
- 145) Park, K. and Yeo, Y.: Solvent exchange method: A new microencapsulation technique, *Division of Biochemical Technology, the 227th ACS National Meeting*, Anaheim, CA, Abstract#381, March 28-April 1, 2004.
- 146) Lee, G.U., Oark, J.W., Wang, Z., Kang, E., and Park, K.: Microfabricated reactor arrays for high throughput screening of membrane protein function, *AIChE 2004 Annual Meeting*, Austin, TX, November 7-12, 2004.
- 147) Acharya, G. and Park, K.: Challenges and strategies in drug delivery from coronary stents. *Biointerface 2004*. Baltimore, MD, October 28, 2004, p. 45.
- 148) Park, S., Seomoon, G., Pai, C., Fu, Y., Jeong, S., Park, K.: Orally disintegrating tablets using mannose granules, *2004 AAPS Annual Meeting Abstracts*, W5207, Baltimore, MD, November 9-11, 2004.
- 149) Park, J., Yeo, Y., Ye, M., Park, K.: Microencapsulation of lysozyme using the solvent exchange method: effect of sugar and salt concentration on the particle size, *2004 AAPS Annual Meeting Abstracts*, W4038, Baltimore, MD, November 9-11, 2004.
- 150) Yeo, Y., Park, K.: Characterization of reservoir-type microcapsules made by the solvent exchange method, *2004 AAPS Annual Meeting Abstracts*, T2161, Baltimore, MD, November 9-11, 2004.
- 151) 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*, San Diego, CA, BIOT #212, March 13-17, 2005.
- 152) Park, G.E., Park, K., and Webster, T.J.: Fibronectin and vitronectin interactions with NaOH-treated PLGA increases chondrocyte functions, *Society for Biomaterials 30th Annual Meeting & Exhibition*, Memphis, TN, #516, April 27-30, 2005.
- 153) Park, J., Ye, M., Yeo, Y., Lee, W., Paul, C., Choi, D., and Park, K.: Reservoir-type microcapsules for protein delivery: Optimization of the fabrication condition, *Society for Biomaterials 30th Annual Meeting & Exhibition*, Memphis, TN, #585, April 27-30, 2005.
- 154) Park, J.H., Huh, K.M., Lee, S.C., Lee, W.K., Ooya, T., and Park, K.: Nanoparticulate drug delivery systems based on hydrotropic polymers, dendrimers, and polymer complexes, *2005 NSTI Nanotechnology Conference*, Anaheim, CA, Abstract #1072, May 8-12, 2005.
- 155) Seomoon, G., Park, S., Hwang, J., Lim, H., Pai, C., and Park, K.: Orally disintegrating tablets incorporated with taste-mased drug, *2005 AAPS Annual Meeting Abstracts*, Nashville, TN, #R6129, November 7-10, 2005.
- 156) Ye, M., Park, J.H., Yeo, Y., Lee, W-K., Paul, C., Choi, D.K., and Park, K.: Microencapsulation of lysozyme using the solvent exchange method: Effects of volume and the type of collection medium on the particle size, *2005 AAPS Annual Meeting Abstracts*, Nashville, TN, #R6174, November 7-10, 2005.
- 157) Paul, C., Lee, S., Yeo, Y., Grégori, G., Robinson, J.P., and Park, K.: Flow cytometric microencapsulation, *2005 AAPS Annual Meeting Abstracts*, Nashville, TN, #R6113, November 7-10, 2005.

- 158) Kang, E., Kim, J.-M., Thompson, D., Park, K.: Supported lipid bilayer membrane on lipid-poly(ethylene glycol)-silane with varied molecular weights and lipid moieties, *2005 AAPS Annual Meeting Abstracts*, Nashville, TN, #M1103, November 7-11, 2005.
- 159) Kang, E., Kwon, I.K., Wang, H., Cheng, J-X. and Park, K.: 3-D visualization of paclitaxel in polymer films by coherent anti-Stokes Raman scattering microscopy, *Society for Biomaterials Annual Meeting*, Pittsburgh, PA, Abstract #93, April 26-29, 2006.
- 160) Kwon, I.K., Park, K., and Matsuda, T.: Co-electrospun nanofiber fabrics of poly(L-lactide-co- ϵ -caprolactone) with type I collagen or heparin, *Society for Biomaterials Annual Meeting*, Pittsburgh, PA, Abstract #361, April 26-29, 2006.
- 161) Shi, Y., Shim, W.S., Park, K., Shi, R., and Cheng, J-X.: Effective restoration of compound action potential in trauma injured spinal cords with nanoscale block co-polymer micelles, 23rd Annual National Neurotrauma Society Meeting, St. Louis, MO, Abstract reference number: 0204, July 7-9, 2006.
- 162) Kang, E., Kwon, I.K., Wang, H., Ye, M., Park, K., and Cheng, J-X.: Chemical imaging of drug-loaded polymer films and reservoir type microcapsules by coherent anti-Stokes Raman scattering microscopy, The 33rd CRS Annual Meeting, Vienna, Austria, Abstract #574, July 22-26, 2006.
- 163) Kang, E., Lee, S.C., and Park, K.: Layer-by-layer assembly of micelle layers, The 33rd CRS Annual Meeting, Vienna, Austria, Abstract #916, July 22-26, 2006.
- 164) Min, H.S., Huh, K.M., Lee, S.C., Lee, J., and Park, K.: Aqueous solubilization of paclitaxel using hydrotropic polymer micelle, *Asian Symposium on Biomedical Materials-7*, Jeju, Korea, Abstract No. DS-Po-048, August 20-23, 2006.
- 165) Choi, Y.M., Huh, K.M., Myung, S-W., Choi, H-S., and Park, K.: Preparation and swelling behavior of superporous hydrogels: Control of pore structure and surface property, *Asian Symposium on Biomedical Materials-7*, Jeju, Korea, Abstract No. PO-Po-022, August 20-23, 2006.
- 166) Kwon, I.K., Kang, E., Song, Y-H., Miller, K.M., Kamath, K., Barry, J. and Park, K.: Paclitaxel release from two-drug formulations in poly(styrene-b-isobutylene-b-styrene) matrices, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster # T3163, Oct. 29-Nov. 2, 2006.
- 167) Kang, E., Kwon, I.K., Wang, H., Park, K., Song, Y-H., Miller, K.M., Kamath, K., Barry, J., and Cheng, J-X.: In situ imaging of paclitaxel release from poly(styrene-b-isobutylene-b-styrene) films by coherent anti-Stokes Raman scattering microscopy, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster # W4206, Oct. 29-Nov. 2, 2006.
- 168) Ye, M., Shim, W.S., Seo, K-S., Paul, C., Park, K.: Microencapsulation of lysozyme using the solvent exchange method: Effects of ethyl acetate in the collection bath, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster #W5065, Oct. 29-Nov. 2, 2006.
- 169) Shim, W.S., Ye, M., Seo, K-S., Paul, C., Park, K.: Microencapsulation of lysozyme using the solvent exchange method: Enhancement of encapsulation efficiency and release from lyophilized microcapsules, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster #W5066, Oct. 29-Nov. 2, 2006.
- 170) Seo, K.S., Ye, M., Shim, W.S., Kim, M.S., Lee, H.B., and Park, K.: Mono-nuclear microcapsule formation using modified ultrasonic atomizer for protein drug delivery, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster #W5064, Oct. 29-Nov. 2, 2006.
- 171) Jeong, S.H. and Park, K.: Development of sustained release fast-disintegrating tablets using various polymer-coated ion exchange resin complexes, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster # T3196, Oct. 29-Nov. 2, 2006.

- 172) Park, S., Hwang, J., Moon, G., Chung, H., Lim, H., Pai, C., Park, K.: Orally disintegrating tablets for bitter taste drug, *The 2006 AAPS Annual Meeting and Exposition*, San Antonio, TX, Poster # W4136, Oct. 29-Nov. 2, 2006.
- 173) Park, K., Kang, E., Kwon, I.K., Wang, H., Robinson, J., Ye, M., and Cheng, J-X.: Chemical imaging of drug/polymer in polymer films by coherent anti-Stokes Raman scattering microscopy, *The 2006 AIChE Annual Meeting*, San Francisco, CA, Podium #131d, Nov. 12-16, 2006.
- 174) Kim, J., Wei, X., Kim, S., Park, K.: Paclitaxel release from hydrotropic micelles, *The 34th CRS Annual Meeting*, Long Beach, CA, Abstract #251, July 9-11, 2007.
- 175) Kang, E., Vedantham, K., Long, X., Dadara, M., Kwon, I., Sturek, M., Park, K.: Stent for delivery of 1,3-dipropyl-8-cyclopentylxanthine (DPCPX) – A signaling pathway specific drug, *The 34th CRS Annual Meeting*, Long Beach, CA, Abstract #504, July 9-11, 2007.
- 176) Kim, J.Y., Kim, S., Konno, T., Ishihara, K., Pinal, R. and Park, K.: Hydrotropic polymers for lipophilic drug delivery, *The 2007 AAPS Annual Meeting and Exposition*, San Diego, CA, Poster # W4126, Nov. 11-15, 2007.
- 177) Vedantham, K., Kim, S., Konno, T., Ishihara, K., and Park, K.: Development of an anti-thrombogenic drug eluting stent using polymer based on 2-methacryloyloxyethyl phosphorylcholine (MPC), *The 2008 AAPS National Biotechnology Conference*, Toronto, Canada, Poster # M1026, June 22-25, 2008.
- 178) Takaishi, Y. and Park, K.: Development of fast dissolving tablets using Eudragit NE as a binder, *The 35th CRS Annual Meeting*, New York, NY, July 13-16, 2008.
- 179) Kim, J.Y., Kim, S., Pinal, R., Konno, T., Ishihara, K., and Park, K.: Hydrotropic polymer micelles for delivery of hydrophobic drugs, *The 35th CRS Annual Meeting*, New York, NY, July 13-16, 2008.
- 180) Vedantham, K., Kwon, I.K., Kim, S., and Park, K.: Development of an anti-thrombogenic drug eluting stent: Combinatorial drug approach, *The 35th CRS Annual Meeting*, New York, NY, July 13-16, 2008.
- 181) Chaterji, S., Park, K., and Panitch, A.: Smooth muscle cell phenotypic modulation & higher endothelial cell adhesion in a direct co-culture model, *Society for Biomaterials Annual Meeting*, San Antonio, TX, Abstract #713, April 22-25, 2009.
- 190) Chaterji, S., Kim, N., Sturek, M.S., and Park, K.: Effect of ProbucoI, AICAR, and TGF- β 1 on Smooth Muscle Cell and Endothelial Cell Phenotype and Proliferation, NanoDDS'09, Indianapolis, IN, Abstract p.43, October 5-6, 2009.
- 184) Holback, H.K.A., Kim, S.W., and Park, K.: Swelling in glucose-sensitive HEMA-DMAEMA hydrogels, NanoDDS'09, Indianapolis, IN, Abstract p.54, October 5-6, 2009.
- 182) Kim, S.W. and Park, K.: Thermo- and pH-sensitive hydrotropic polymer micelles for oral paclitaxel delivery, NanoDDS'09, Indianapolis, IN, Abstract p.59, October 5-6, 2009.
- 185) Kitsongsermthon, J., Sturek, M., and Park, K.: Development of DPCPX-eluting stents, NanoDDS'09, Indianapolis, IN, Abstract p.60, October 5-6, 2009.
- 183) Long, X., He, Y., Kitsongsermthon, J., Park, K., and Sturek, M.: Novel drug-eluting stents to reduce coronary in-stent stenosis in a porcine model of metabolic syndrome, NanoDDS'09, Indianapolis, IN, Abstract p.65 October 5-6, 2009.
- 186) Shi, Y., Kim, S.W., Huff, T.B., Borgens, R.B., Park, K., Shi, R., and Cheng, J.X.: Effective repair of traumatically injured spinal cord by block copolymer micelles, NanoDDS'09, Indianapolis, IN, Abstract # October 5-6, 2009.

- 187) McDermott, M., Shin, C.S., Acharya, G., and Park, K.: Fabrication of homogeneous drug delivery systems *via* hydrogel template strategy, NanoDDS'09, Indianapolis, IN, Abstract p.70, October 5-6, 2009.
- 189) Rish, T., McDermott, M., Shin, C.S., Hansen, Keith, Amick, K., Acharya, G., and Park, K.: Hydrogel template strategy for the fabrication of microstructures of complex geometries, NanoDDS'09, Indianapolis, IN, Abstract p.82, October 5-6, 2009.
- 188) Shin, C.S., McDermott, M., Acharya, G., and Park, K.: Fabrication of homogeneous drug delivery systems with controlled release kinetics, NanoDDS'09, Indianapolis, IN, Abstract p.87, October 5-6, 2009.
- 189) Otte, A., Park, K., and Carvajal, T.: Microfabricated particles for pulmonary delivery, Respiratory Drug Delivery, Orlando, FL, April 25-29, 2010.
- 190) Kitsongsermthong, J., Acharya, A., and Park, K.: Drug-eluting balloon development by imprinting uniform array of microparticles, *The 38th CRS Annual Meeting*, National Harbor, MD, Abstract #9, July 30-August 3, 2011.
- 191) Lee, S., Kim, S.W., Park, K., and Cheng, J.X.: A Reversibly crosslinked micelle for intravenous delivery of paclitaxel, *The 38th CRS Annual Meeting*, National Harbor, MD, Abstract #334, July 30-August 3, 2011.
- 191) Lu, Y., Acharya, G., and Park, K.: Fabrication of homogeneous nano/microparticles using hydrogel template method, *The 38th CRS Annual Meeting*, National Harbor, MD, Abstract #177, July 30-August 3, 2011.
- 192) Lu, Y. and Park, K.: Development and evaluation of controlled release risperidone PLGA microparticles produced by the hydrogel template method, the 2012 AAPS Annual Meeting, Chicago, IL, Poster # T2249, October 16, 2012.
- 193) Park, K.: Controlled drug delivery systems: The third generation, International Conference on Biomaterials Science, Tsukuba, Japan, PL 17, March 20-22, 2013.
- 194) Kwak, B., Park, K., and Han, B.: Tumor-microenvironment-on-chip: Simulation of complex transport around tumor, *The 40th CRS Annual Meeting*, Honolulu, HI, Session: Imaging and Characterization Techniques for Drug Delivery: Systems and Targeted Drug Delivery, 10:30 AM - 12:00 PM, July 23, 2013.
- 195) Ozcelikkale, A., Shin, C.S., Park, K. and Han, B.: Rapid screening of anti-cancer drugs and delivery vehicles using tumor-microenvironment-on-chip, *The 41st CRS Annual Meeting*, Chicago, IL, July 14, 2014.
- 196) Shin, C.S., Ozcelikkale, A., Han, B., and Park, K.: Engineering in vitro three-dimensional tumor models by surface fabrication, *The 41st CRS Annual Meeting*, Chicago, IL, July 14, 2014.
- 197) Park, K.: In vitro testing of bioequivalence for long-term depot formulations, Generic Drug User Fee Amendments of 2012 Regulatory Science Initiatives: Request for Public Input for FY 2015 Generic Drug Research Part 15 Public Hearing, FDA White Oak Campus, Silver Spring, MD, June 5, 2015.
- 198) Lee, B.K., Yun, Y.H., Skidmore, S., Garner, J., and Park, K.: The Vacuum SpinSwiper Device for Making PLGA Microparticle, *The 42nd CRS Annual Meeting*, Edinburgh, Scotland, July 28, 2015, Abstract #814.
- 199) Baez-Santos, Y.M., Otte, A., and Park, K.: A fast and sensitive method for the detection of leuprolide acetate: a high-throughput approach for the in vitro evaluation of liquid crystal formulations, *The 43rd CRS Annual Meeting*, Seattle, WA, July 17-20, 2016, Abstract 2570.

- 200) Otte, A., Baez, Y., Berlant, C., Lee, Y., Soh, B.K., Song, C.G, Goergen, C., and Park, K.: Ultrasound monitoring of a subcutaneous liquid crystal drug delivery system, *The 43rd CRS Annual Meeting*, Seattle, WA, July 17-20, 2016, Abstract 2653.
- 201) Mun, E., Baez, Y., Lee, A., Otte, A., Soh, B.K., Song, C.G., and Park, K.: Formulation and characterization of a hexagonal liquid crystalline drug delivery system, *The 43rd CRS Annual Meeting*, Seattle, WA, July 17-20, 2016, Abstract 1997.
- 202) Garner, J., Skidmore, S., Park, H., Park, K., Choi, S., and Wang, Y.: Assay of PLGA properties in parenteral depot formulations, *The 43rd CRS Annual Meeting*, Seattle, WA, July 17-20, 2016, Abstract 3252.
- 203) Garner, J., Skidmore, S., Hadar, J., Park, K., Park, H., Choi, S., and Wang, Y.: Assay of PLGA types in microparticle depo formulations, 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.
- 204) Skidmore, S., Garner, J., Park, K., Park, H., Choi, S., and Wang, Y.: The impact of in vitro test methods on drug release from PLGA microparticles, 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.
- 204) Hadar, J., Garner, J., Skidmore, S., Park, K., Park, H., Choi, S., and Wang, Y.: The effect of lactide:glycolide ratio on PLGA solubility in selective solvents, 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.

Book Reviews

- 1) Kinam Park
Topics in Pharmaceutical Sciences 1985, Breimer, D.D. and Speiser, P., Eds., Elsevier, New York, 1985.
J. Control. Release, 4: 304-305, 1987.
- 2) Kinam Park
Clinical Chemistry: Interpretation and Techniques, 3rd Edition, Kaplan, A., Szabo, L.L., and Opheim, K.E., Lea & Febiger, Philadelphia, 1988.
J. Control. Release, 9: 88, 1989.
- 3) Kinam Park
Bioadhesion-Possibilities and Future Trends, Gurney, R. and Junginger, H.Z., Eds., WVA, Germany, 1990.
J. Control. Release, 15: 84-85, 1991.
- 4) Kinam Park
Protein Stability and Stabilization through Protein Engineering, Nosoh, Y. and Sekiguchi, T., Ellis Horwood, New York, 1991.
J. Control. Release, 29: 204, 1994.
- 5) Kinam Park
Topics in Fluorescence Spectroscopy. Vol. 4. Probe Design and Chemical Sensing, Lakowicz, J.R., Ed., Plenum Press, New York, 1994.
J. Control. Release, 42: 301, 1996.
- 6) Kinam Park

Pharmaceutical Dosage Forms: Disperse Systems. Volumes I and II, Lieberman, H.A., Rieger, M.M., and Banker, G.S., Eds., Marcel Dekker, Inc., New York, 1996.
Pharmaceutical Research, 13: 1902-1903, 1996.

- 7) Tonglei Li and Kinam Park
Fractal Aspects of Materials. Family, F., Meakin, P., Sapoval, B., and Wool, R., Eds., Materials Research Society, Pittsburgh, 1995.
Pharm. Res., 14: 551, 1997.
- 8) Kinam Park
Protein Delivery Physical Systems, Sanders, L.M. and Hendren, R.W., Eds., Plenum Publishing Corporation, New York, 1997.
Pharm. Res., 14: 1496, 1997.
- 9) Kinam Park
Biosensors in the Body. Continuous In Vivo Monitoring, Fraser, D.M., Ed., John Wiley & Sons, Ltd., Chichester, England, 1997.
Biocompatibility Assessment of Medical Devices and Materials, Braybrook, J.H., Ed., John Wiley & Sons, Ltd., Chichester, England, 1997.
Pharm. Res., 15: 158-159, 1998.
- 10) Kinam Park
Physicochemical Principles of Pharmacy, Florence, A.T. and Attwood, D., Macmillan Press Ltd., Houndmills, England, 1998.
Pharmaceutical Biotechnology: An Introduction for Pharmacists and Pharmaceutical Scientists, Crommelin, D.J.A. and Sindelar, R.D., Eds., Harwood Academic Publishers, Amsterdam, The Netherlands, 1997.
Pharm. Res., 15: 1804-1805, 1998.
- 11) Kinam Park
In Quest of Tomorrow's Medicines, Drews, J., Springer-Verlag, New York, 1999.
Pharm. Res., 17: 897-898, 2000.
- 12) Kinam Park
Cells, Gels and the Engines of Life. A New, Unifying Approach to Cell Function, Pollack, G.H., Ebner and Sons Publishers, Seattle, WA, 2001.
Pharm. Res., 18(12): 1804-1805, 2001.
- 13) Kinam Park
Electroactive Polymer (EAP) Actuators as Artificial Muscles. Reality, Potential, and Challenges. Bar-Cohen, Y., Ed. SPIE Press, Bellingham, WA, 2001.
Biomimetic Materials and Design. Biointerfacial Strategies, Tissue Engineering, and Targeted Drug Delivery. Dillow, A.K. and Lowman, A.M., Eds., Marcel Dekker, New York, NY, 2002.
A New Kind of Science. Wolfram, S., Wolfram Media, Champaign, IL, 2002.
Fundamentals of Microfabrication: The Science of Miniaturization, Second Edition, Madou, M.J., CRC Press, Boca Raton, FL, 2002.
MEMS and NEMS: Systems, Devices, and Structures. Lyshevski, S.E., Ed., CRC Press, Boca Raton, FL, 2002.
Handbook of Nanoscience, Engineering, and Technology, Goddard, III, W.A., Brenner, D.W., Lyshevski, S.E., and Iafrate, G.J., Eds., CRC Press, Boca Raton, FL, 2003.
The MEMS Handbook, Gad-el-Hak, M., Ed., CRC Press, Boca Raton, FL, 2002.
Microarray Analysis, Schena, M., John Wiley & Sons, Hoboken, NJ, 2003.

Handbook of Applied Surface and Colloid Chemistry. Volumes. 1 and 2, Holmberg, K., Ed., John Wiley & Sons, New York, NY, 2001.
Pharm. Res., 20(3): 527-529, 2001.

14) Kinam Park

Thermodynamics of Pharmaceutical Systems. An Introduction for Students of Pharmacy, Connors, K.A., Wiley-Interscience, Hoboken, NJ, 2002.
Thermodynamics and Statistical Mechanics, Basic Concepts in Chemistry. Seddon, J.M. and Gale, J.D., Wiley-Interscience, New York, NY, 2002.
Thermodynamics of Biochemical Reactions, Alberty, R.A., John Wiley & Sons, Hoboken, NJ, 2003.
Bioenergetics 3, Nicholls, D.G., and Ferguson, S.J., Academic Press, San Diego, CA, 2002.
Pharm. Res., 20(9): 1518-1519, 2003.

15) Kinam Park

Encyclopedia of Polymer Science and Technology. Third Edn. Mark, H.F., Ed., John Wiley & Sons, Hoboken, NJ, 2003. Volumes 1-4, Part 1.
Volume 1. A to Coatings.
Volume 2. Coextrusion to Hyperbranched Polymers.
Volume 3. Injection Molding to Polysulfide.
Volume 4. Polysulfones to Weathering.
Pharm. Res., 20(12): 2041-2051, 2003.

16) Kinam Park

Encyclopedia of Polymer Science and Technology, Third Edn. Mark, H.F., Ed., John Wiley & Sons, Hoboken, NJ, 2003. Volumes 5-8, Part 2.
Volume 5. Acoustic Properties to Cyclopentadiene and Dicyclopentadiene.
Volume 6. Degradation to Magnetic Polymers.
Volume 7. Metal-Containing Polymers to Rigid-Rod Polymers.
Volume 8. Semicrystalline Polymers to Ziegler-Natta Catalysts.
Protecting America's Health: The FDA, Business, and One Hundred Years of Regulation, Hiltz, P.J., Knopf, A.A., New York, NY, 2003.
A History of Nonprescription Product Regulation, Pray, W.S., Pharmaceutical Products Press, Binghamton, NY, 2003.
Pharm. Res., 21(3): 543-552, 2004

Articles in Newsletters, Business Reports, and Technology Journals

- 1) Li, T. and Park, K.: The CRS web-site, *Controlled Release Newsletter*, 14(1): 14-15, 1997.
- 2) Potts, R. and Park, K.: The 1998 CRS Annual Symposium in Las Vegas, *Controlled Release Newsletter*, 15(2): 16, 1999.
- 3) Park, K.: From the President, *Controlled Release Newsletter*, 18(3): 3, 2001.
- 4) Park, K.: From the President, *Controlled Release Newsletter*, 19(1): 11&20, 2002.
- 5) Park, K.: New drugs in the past and new drugs in the future, *Business Briefing PharmaTech 2002*, p. 144.
- 6) Park, K.: Superporous hydrogels for pharmaceutical and other applications, *Drug Delivery Technology*, 2(4): 34-40, 2002.
- 7) Huh, K.M., Cho, Y.W., and Park, K.: PLGA-PEG block copolymers for drug formulations, *Drug Delivery Technology*, 3(5): 52-58, 2003.
- 8) Rocca, J.G. and Park, K.: Oral drug delivery: prospects and challenges, *Drug Delivery Technology*, 4(4): 52-57, 2004.

- 9) Leaming, M. and Park, K.: Journal of Controlled Release Highlights, *Controlled Release Society Newsletter*, 22 (3), 27, 2005.
- 10) Leaming, M. and Park, K.: Journal of Controlled Release Highlights, *Controlled Release Society Newsletter*, 23 (1), 15, 2006.
- 11) Leaming, M. and Park, K.: Journal of Controlled Release Highlights, *Controlled Release Society Newsletter*, 23 (2), 12, 2006.
- 12) Park, K.: Journal of Controlled Release Highlights, *Controlled Release Society Newsletter*, 24 (3), 5, 2007.
- 13) Park, K.: A workshop on the regulatory landscape for therapeutic biologics, *Controlled Release Society Newsletter*, 2016
(<http://www.controlledreleasesociety.org/publications/Newsletter/MemberOnlyNewsletter/Special%20Feature.pdf>).

Invited Lectures

- 1) Surface characterization of biomaterials by immunogold staining. Scanning Electron Microscopy 1986, Biotechnology and Bioapplication of Colloidal Gold, New Orleans, LA, May 5-9, 1986.
- 2) Platelet behavior at polymer-blood interfaces. Devices and Technology Branch Contractors Meeting, Bethesda, MD, Dec. 8-10, 1986.
- 3) Enzyme-digestible hydrogels - new platforms for oral controlled drug delivery, INTERx Research Corporation, Lawrence, KS, October 12, 1987.
- 4) Factors affecting efficiency of colloidal gold staining colloidal stability, The 7th Pfefferkorn Conference on Science of Biological Specimen Preparation, Guildford, England, September 12-16, 1988.
- 5) Examination of cytoskeletal structures of spread platelets using video-enhanced interference reflection microscopy, *The 7th Pfefferkorn Conference on Science of Biological Specimen Preparation*, Guildford, England, September 12-16, 1988.
- 6) Time-lapse video microscopic analysis of surface-induced platelet activation, Conference on Platelet Structure and Adhesion, Madison, WI, October 27-28, 1988.
- 7) New approach to study bioadhesion: colloidal gold staining, AMGEN, Thousand Oaks, CA, November 11, 1988.
- 8) The redistribution of fibrinogen receptors on the ventral membrane of spreading platelets, Scanning Microscopy 1989, Colloidal Gold Labelling, Salt Lake City, UT, May 1-5, 1989.
- 9) Drug delivery systems using enzyme-digestible swelling/mucoadhesive hydrogels, The Fall Workshop of the Korean Federation of Science and Technology Societies, Seoul, Korea, October 11-13, 1989.
- 10) Modification of surface-adsorbed fibrinogen by spreading platelets, Third Annual Midwest Platelet Symposium, Madison, WI, November 17, 1989.
- 11) A new approach to study mucoadhesion: Colloidal gold staining, Center for Controlled Chemical Delivery, Salt Lake City, UT, January 30, 1990.
- 12) New approaches to the study of polymer-mucin interactions, Gordon Research Conferences on Polymers in Biosystems, Oxnard, CA, March 19-23, 1990.
- 13) Prevention of platelet adhesion and activation by surface modification, Shiley Incorporated, Irvine, CA, May 9, 1990.

- 14) Biodegradable hydrogels as platforms for long-term oral drug delivery, Fourth Annual Symposium of the Johnson & Johnson Drug Delivery Subcommittee, October 8, 1990.
- 15) In vitro and in vivo studies of enzyme-digestible hydrogels for oral drug delivery, Fifth International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, February 25-28, 1991.
- 16) Application of quantitative colloidal gold staining to the study of mucin-polymer interactions, Scanning '91, Atlantic City, NJ, April 10-12, 1991.
- 17) Development of long-term oral drug delivery systems using enzyme-digestible swelling hydrogels, Syntex Research, Palo Alto, CA, June 10, 1991.
- 18) Application of quantitative colloidal gold staining to the study of mucin-polymer interactions, 3M Life Sciences Sector, St. Paul, MN, June 13, 1991.
- 19) Prevention of platelet adhesion and activation by surface modification, 3M Life Sciences Sector, St. Paul, MN, June 14, 1991.
- 20) Hydrogel systems, 204th ACS National Meeting, Washington, D.C., August 23, 1992.
- 21) Hydrogel systems in pharmaceuticals, 1992 Annual Meeting of AAPS, PDD Symposium on Polymer Science: Unique Applications in the Pharmaceutical Industry, San Antonio, TX, November 17, 1992.
- 22) Oral vaccination using hydrogels, Miles Inc., Animal Health Products, Shawnee Mission, KS, February 24, 1993.
- 23) Biodegradable hydrogels for delivery of protein drugs, The 205th American Chemical Society National Meeting, Division of Polymer Chemistry, Denver, CO, April 1, 1993.
- 24) Evaluation of bioadhesion by colloidal gold staining, Gliatech, Inc., Cleveland, OH, June 11, 1993.
- 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.
- 27) Smart hydrogels for pharmaceutical applications, PharmTech Conference, Atlantic City, NJ, September 22, 1993.
- 28) Protein interactions with surfaces, American Vacuum Society, Orlando, FL, November 15, 1993.
- 28) New methods for modification of polymeric biomaterials, BSI Corporation, Eden Prairie, MN, November 5, 1993.
- 29) Protein interactions with surfaces, American Vacuum Society, Orlando, FL, November 15, 1993.
- 30) Surface modification of biomaterials, Cedars-Sinai Medical Center, Los Angeles, CA, November 22, 1993.
- 31) Smart hydrogels, WCCR Literature Meeting, Purdue University, West Lafayette, IN, April 22, 1994.
- 32) Polysaccharide hydrogels for controlled drug delivery, Frontiers in Carbohydrate Research Conference, West Lafayette, IN, May 10, 1994.
- 33) Surface modification for prevention of protein adsorption, AAPS Midwest Regional Meeting, Chicago, IL, May 23, 1994.
- 34) Oral vaccination of cattle via hydrogel delivery systems, The 21st International Symposium on Controlled Release of Bioactive Materials, Nice, France, June 27, 1994.
- 35) Surface modification of biomaterials for the prevention of protein adsorption and cell adhesion, Dept. of Biomedical Engineering, Duke University, Durham, NC, October 17, 1994.

- 36) Development of modulated insulin delivery systems: prospects and limitations, Korea Basic Science Center, Seoul, Korea, October 24, 1994.
- 37) Oral vaccination hydrogel systems, Second International Symposium on Biomaterials and Drug Delivery Systems, Korea Institute of Science and Technology, Seoul, Korea, October 25, 1994.
- 38) Recent advances in drug delivery systems using hydrogels, *Pacific Corporation*, Seoul, Korea, October, 28, 1994.
- 39) Surface modification of biomaterials, Center of Membrane Sciences, University of Kentucky, Lexington, KY, December 6, 1994.
- 40) Synthesis of novel sucrose-derived hydrogels and hydrogel foams for pharmaceutical applications, The Sugar Association, Washington, D.C., March 7, 1995.
- 41) Oral vaccination hydrogel systems, The Seventh International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, February 28, 1995.
- 42) Surface modification for the prevention of protein adsorption and cell adhesion, College of Pharmacy, University of Michigan, Ann Arbor, MI, March 8, 1995.
- 43) Stent regulation of the vascular microenvironment, The 41st Annual Conference of ASAIO (American Society for Artificial Internal Organs), Chicago, IL, May 6, 1995.
- 44) Synthesis of glucose-sensitive phase-reversible hydrogels, 11th International Symposium on Affinity Chromatography and Biological Recognition, San Antonio, TX, May 27, 1995.
- 45) Smart hydrogels for pharmaceutical applications, Strategies for new drug and vaccine development, 5th Annual Meeting of the Society of Biomedical Research, Washington, D.C., September 15, 1995.
- 46) Surface modification of biomaterials, EE520 Biomedical Engineering Seminar, Purdue University, October 31, 1995.
- 47) Recent trend in pharmaceutical research, Choongwae Pharmaceuticals, Seoul, Korea, December 12, 1995.
- 48) Controlled drug delivery using smart hydrogels, Choongwae Research Labs., Suwon, Korea, December 13, 1995.
- 49) Smart hydrogels, Collagen Corp., Palo Alto, CA, February 6, 1996.
- 50) Issues in the implantable drug delivery systems, 42nd Annual Conference of American Society for Artificial Internal Organs, Washington, D.C., May 3, 1996.
- 51) Controlled drug delivery: Present and future, The Madison Conference on the Pharmaceutical Sciences, 1996, Madison, WI, June 7, 1996.
- 52) Computer simulation in drug delivery and biomaterials research: Oral vaccination hydrogel systems, Third International Symposium on Biomaterials and Drug Delivery Systems, Korea Research Institutes of Chemical Technology, Taejeon, Korea, July 5, 1996.
- 53) Hydrogel foams, Korea Institute of Science & Technology, Seoul, Korea, August 13, 1996.
- 54) A view on future glucose sensors and insulin delivery systems, Cygnus Corp., Redwood City, CA, October 24, 1996.
- 55) Self-regulated insulin delivery and glucose sensing, Fukuoka University, Fukuoka, Japan, May 13, 1997.
- 56) Future of glucose sensing and insulin delivery: A point of view, The First Asian International Symposium on Polymeric Biomaterials Science, Ishikawa, Japan, May 15, 1997.

- 57) New and emerging polymers and hydrogels, Land of Lake Conference on Challenges and Prospects in the Design and Development of Oral Controlled Release Products, Merric, WI, June 4, 1997.
- 58) Biocompatibility of implantable drug delivery systems, CRS-CPA Joint Workshop on Recent Advances in Drug Delivery Science and Technology, Beijing, China, September 20, 1997.
- 59) Biocompatibility of biomaterials, KSP-CRS Joint Symposium on Recent Advances in Drug Delivery and Biomaterials, Seoul, Korea, September 26, 1997.
- 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.
- 61) How to respond to reviewers' critiques, The Education Committee sponsored program on How to Write a Research Article at the American Association of Pharmaceutical Scientists 12th National Meeting, Boston, MA, November 4, 1997.
- 62) Fractal analysis of pharmaceutical particles, University of Wisconsin, School of Pharmacy, Madison, WI, January 5, 1998.
- 63) Superporous hydrogel composites: A new class of hydrogels for biomedical and pharmaceutical applications, The Fifth European Symposium on Controlled Drug Delivery, Noordwijk aan Zee, The Netherlands, April 1-3, 1998.
- 64) Drug delivery technology: Use of novel polymers and hydrogels, The AAPS Midwest Regional Meeting, Chicago, IL, May 18, 1998.
- 65) Analysis of glucose-binding molecules, The 25th International Symposium on Controlled Release of Bioactive Materials, Las Vegas, NV, June 23, 1998.
- 66) AFM and fractal analysis of biomaterial microtopography, Microscopy & Microanalysis '98, Atlanta, GA, July 12-16, 1998.
- 67) Oral vaccination using microparticles: potentials and future directions, Pharmaceutical and Analytical & Development, Abbott Laboratories, Chicago, IL, July 24, 1998.
- 68) Surface-grafted PEO chains: Experiments, theoretical analysis, and computer simulation, Non-Fouling Surface Technologies Symposium, Seattle, WA, July 30-31, 1998.
- 69) Superporous hydrogels: Fast responsive hydrogel systems, The American Chemical Society National Meeting. PMSE and Polymer Chemistry Divisions, Boston, MA, August 21-26, 1998.
- 70) Superporous hydrogel composites: synthesis, characterization, and application, The American Chemical Society National Meeting. Polymer Chemistry Divisions, Boston, MA, August 21-26, 1998.
- 71) Fractal analysis of pharmaceutical particles, Korea Institute of Science and Technology, Seoul, Korea, November 10, 1998.
- 72) Superporous hydrogels: medical and pharmaceutical applications, Korea Advanced Institute of Science and Technology, Taejon, Korea, November 11, 1998.
- 73) Fractal analysis of pharmaceutical particles, Korea Research Institute of Chemical Technology, Taejon, Korea, November 11, 1998.
- 74) Development and evaluation of medical devices and materials, The Second International Symposium on Current Status of International Regulation on Food and Drug, Korea Food and Drug Administration, Seoul, Korea, November 13, 1998.
- 75) Superporous hydrogels: medical and pharmaceutical applications, University of Minnesota, Biomedical Engineering Center and Department of Pharmaceutics, Minneapolis, MN, December 3, 1998.

- 76) Hydrogels in drug delivery, Ninth International Symposium on Recent Advances in Drug Delivery Systems, Salt Lake City, UT, February 22, 1999.
- 77) Superporous hydrogels: pharmaceutical and medical applications, Yamanouchi Shaklee Pharma, Palo Alto, CA, March 19, 1999.
- 78) Video-enhanced interference reflection microscopy and video-intensified fluorescence microscopy, The Society for Biomaterials Academic Workshop on Probing and Imaging of Cells and Molecules, Providence, RI, April 28, 1999.
- 79) Degradable, fast-swelling, superporous sucrose hydrogels, Frontiers in Carbohydrate Research-6, West Lafayette, IN, May 12, 1999.
- 80) Characterization of morphological features of crystal surface during dissolution process, University of Utah, Salt Lake City, UT, May 17, 1999.
- 81) Superporous hydrogels: pharmaceutical and medical applications, Alza Corp., Palo Alto, CA, June 15, 1999.
- 82) Surface modified biomaterials: in vitro and in vivo behavior, UWEB Symposium on Devices and Diagnostics in Contact with Blood: Issues in Blood Compatibility at the Close of the 20th Century, Seattle, WA, August 4-6, 1999.
- 83) In vitro and in vivo behavior of surface modified biomaterials, KAIST, Taejon, Korea, August 28, 1999.
- 84) Superporous hydrogels: Synthesis and Application, The 5th International Symposium on Polymers for Advanced Technologies, Waseda University, Tokyo, Japan, August 31-September 5, 1999.
- 85) Pharmaceutical and biomedical applications of superporous hydrogels, Pusan National University, September 13, 1999.
- 86) Surface modified biomaterials: in vitro and in vivo behavior, KIST, Seoul, Korea, September 14, 1999.
- 87) Development of oral paclitaxel delivery systems, Sam Yang Corp., Taejon, Korea, September 17, 1999.
- 88) Pharmaceutical and biomedical applications of superporous hydrogels, Sook Myung Women's University, September 18, 1999.
- 89) Pharmaceutical and biomedical applications of superporous hydrogels, Dong Kook University, September 20, 1999.
- 90) Gastric retention drug delivery systems: Past and present, U.S. Food and Drug Administration, Rockville, MD, September 29, 1999.
- 91) Gastric retention drug delivery systems: Past and present, Kos Pharmaceutical, Edison, NJ, October 14, 1999.
- 92) Superporous hydrogels: pharmaceutical and medical applications, Ohio State University, Columbus, OH, October 28, 1999.
- 93) Superporous hydrogels: pharmaceutical and medical applications, Procter & Gamble Company, Cincinnati, OH, November 1, 1999.
- 94) Polymeric systems for oral controlled delivery, AAPS-Northeast Regional Discussion Group, Hartford, CT, April 24, 2000.
- 95) Modulated insulin delivery using glucose-sensitive sol-gel phase reversible hydrogels, Workshop on Supramolecular Approach to Biological Function, World Biomaterials Congress Workshop, Hawaii, May 15, 2000.

- 96) Superporous hydrogels for oral controlled drug delivery, Chong Kun Dang Corp., Seoul, Korea, May 18, 2000.
- 97) Superporous hydrogels for oral controlled drug delivery, Cheil Jedang Corp., Seoul, Korea, May 19, 2000.
- 98) Polymers in oral drug delivery, Kwang Ju Institute of Science and Technology, Kwang Ju, Korea, May 22, 2000.
- 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 & Healthcare, 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 pharmaceuticals, 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 microparticulate 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 hydrogel 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, Beijing, 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 Foresight Joint Symposium on Gene Delivery and the International Workshop on Biomaterials 2010, Changchun, Jilin, 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 various 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 *iCRS*. 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 Prevention, 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 delivery of the future: Chasing the invisible gorilla, The 1st Annual International Symposium on Bio-Therapeutics Delivery, Seoul, Korea, September 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 delivery 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.

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

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 which are 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-)
- 7) BME 290: Frontiers in Biomedical Engineering (2010-)

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 September 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 postdoc 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., February 2017 - June 2017
- 80) Gwang Heum Yoon, M.S., October 2016 -
- 81) Dijia Yu, M.S., November, 2017 –
- 82) Shweta Sharma, February 2018 -

Manuscript Reviews for Journals

ACS Advanced Chemistry Series
Acta Anatomica
Analytical Chemistry
American Journal of Pathology
American Journal of Transplantation
Bioconjugate Chemistry
Biomacromolecules
Biomaterials
Biotechnology and Bioengineering
Colloids and Surfaces
Computational and Theoretical Polymer Science
CRC Critical Reviews
Eur. J. Pharmaceutical Sci.
Eur. J. Pharmaceutics & Biopharmaceutics
European Polymer Journal
Fundamental and Applied Toxicology
IEEE Transaction on Biomedical Engineering
International Journal of Cancer
International Journal of Pharmaceutics
Journal of Adhesion
Journal of Applied Polymer Science
Journal of American Chemical Society
Journal of Bioactive and Compatible Polymers
Journal of Biomaterials Science-Polymer Edition
Journal of Biomedical Materials Research
Journal of Colloid and Interface Science
Journal of Controlled Release
Journal of Drug Targeting
Journal of Membrane Science
Journal of Pharmaceutical Science
Journal of Physical Chemistry. Letters Section
Journal of Polymer Science. Part A: Polymer Chemistry
Langmuir
Macromolecules
Molecular Therapy/Genomics
NanoLetters
Nature Biotechnology
Nature Nanotechnology
Polymer
Pharmaceutical Development and Technology
Pharmaceutical Research
PharmSciTech
Proceedings of the National Academy of Sciences, USA
Reactive and Functional Polymers
Scanning Microscopy
Separation Science and Technology
Trends in Polymer Science