

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
kinam.com; kinampark.com

July 2024

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

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: Diagnosis, Prevention, and Therapy*, 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.
- 13) Park, K., Ed.: *Biomaterials for Cancer Therapeutics: Evolution and Innovation*, Woodhead Publishing-Elsevier, Duxford, UK, 2020, 755 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., Lehmeier, 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 picolynicotinamide 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.aapspharmscitech.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, W., Cai, Y., Zhang, G., Liu, Y., Sui, H., Park, K., and Wang, H.: Sophoridine-loaded PLGA microspheres for lung targeting: preparation, in vitro, and in vivo evaluation, *Drug Deliv*, 23(9): 3674–3680, 2016.
- 271) Min, H.S., Son, S., You, D.G., Lee, T.W., Lee, J., Lee, S., Yhee, J.Y., Lee, J., Han, M.H., Park, J.H., Kim, S.H., Choi, K., Park, K., Kim, K., and Kwon, I.C., Chemical gas-generating nanoparticles for tumor-targeted ultrasound imaging and ultrasound-triggered drug delivery, *Biomater.* 108: 57-70, 2016.

- 272) 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.
- 273) Lee, H.C., Ejserholm, F. Gaire, J. Currilin, 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.
- 274) Salva, R., Mrsny, R., Park, K., Aubert, I., and Staman, C.: Insights and lessons from a scientific conference on non-invasive delivery of macromolecules, *Pharm. Res.*, 34: 1149-1151, 2017.
- 275) 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.
- 276) 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.
- 277) 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.
- 278) 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.
- 279) 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.
- 280) 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.
- 281) 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.
- 282) 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.
- 283) 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.
- 284) Lee, H.Y., Park, J.H., Ji, Y.B., Kwon, D.Y., Lee, B.K., Kim, J.H., Park, K. and Kim, M.S.: Preparation of pendant group-functionalized amphiphilic diblock copolymers in the presence of a monomer activator and evaluation as temperature-responsive hydrogels, *Polymer*, 137:293-302, 2018.
- 285) 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.
- 286) Bowling, J., Davidson, D.D., Tholpady, S., Park, K., Katona, T., Eckert, G., Chu, T.-M. G., and Barco, C.T.: Baseline biomechanical properties of non-expanded tissue samples in dogs, *Plastic and Reconstructive Surgery – Global Open*, 6: e1773, 2018.
- 287) Kim, N.A., Thapa, R., Jeong, S.H., Bae, H.-D., Maeng, J., Lee, K., and Park, K.: Enhanced intranasal insulin delivery by formulations and tumor protein-derived protein transduction domain as an absorption enhancer, *J. Control. Release*, 294: 226-236, 2018.

- 288) Skidmore, S., Hadar, J., Garner, J., Park, H., Park, K., Wang, Y. and Jiang, X.J.: Complex sameness: Separation of mixed poly(lactide-co-glycolide)s based on the lactide:glycolide ratio, *J. Control. Release*, 300: 174-184, 2019.
- 289) Park, K. and Otte, A. Prevention of Opioid Abuse and Treatment of Opioid Addiction: The Current Status and Future Possibilities, *Ann. Rev. Biomed. Eng.*, 21: 61-84, 2019.
- 290) Hadar, J., Skidmore, S. Garner, G., Park, H., Park, K., Wang, Y., Qin, B., and Jiang, X.J.: Characterization of branched poly(lactide-co-glycolide) polymers used in injectable, long-acting formulations, *J. Control. Release*, 304: 75-89, 2019.
- 291) Park, K., Skidmore, S., Hadar, J., Garner, J., Park, H., Otte, A., Soh, B.K., Yoon, G., Yu, D., Yun, Y., Lee, B.K., Jiang, X.J. and Wang, Y.: Injectable, long-acting PLGA formulations: Analyzing PLGA and understanding microparticle formation, *J. Control. Release*, 304: 125-134, 2019.
- 292) Chhetri, A., Chittiboyina, S., Atrian, F., Bai, Y., Delisi, D., Rahimi, R., Garner, J., Efremov, Y., Park, K., Talhouk, R., Lelievre, S.: Cell culture and coculture for oncological research in appropriate microenvironments, *Current Protocols in Chemical Biology*, 11(2): e65 (47 pages) doi: 10.1002/cpch.65. 2019.
- 293) Garner, J., Davidson, D.D., Barwinska, D., Eckert, G.J., Tholpady, S.S., Park, K., Barco, C.T.: Reshapeable hydrogel tissue expander for ridge augmentation: Results of a series of successive insertions at the same intraoral site, *Journal of Periodontology*, 90:718-727, 2019,
- 294) Chang, D.M. Park, K. and Famili, A.: Hydrogels for sustained delivery of biologics to the back of the eye, *Drug Discovery Today*, 24: 1470-1482, 2019.
- 295) Garner, J., Hadar, J., Skidmore, S., Jessmon, F., Immel R. Tyler, A., and Park, K.: Narrow molecular weight margins for the thermogelling property of polyester-polyether block copolymers, *J. Appl. Polym. Sci.*, DOI: 10.1002/APP.48673 (11 pages), 2019.
- 296) Hadar, J., Skidmore, S. Garner, G., Park, H., Park, K., Wang, Y., Qin, B., Jiang, X.J., and Kozak, D.: Method matters: Development of characterization techniques for branched and glucose-poly(lactide-co-glycolide) polymers, *J. Control. Release*, 320: 484-494, 2020.
- 297) Sharifi, F., Otte, A., Yoon, G., and Park K.: Continuous in-line homogenization process for scale-up production of naltrexone-loaded PLGA microparticles, *J. Control. Release*, 325: 347-358, 2020.
- 298) Otte, A., Sharifi, F., and Park K.: Interfacial tension effects on the properties of PLGA microparticles, *Colloids and Surfaces B: Biointerfaces*, 196: 111300 (6 pages), 2020.
- 299) Bae, Y.H. and Park, K.: Advanced drug delivery 2020 and beyond: Perspectives on the future, *Adv. Drug Del. Rev.*, 158: 4-16, 2020.
- 300) Park, K., Otte, A., Sharifi, F., Garner, J. Skidmore, S., Park, H., Jhon, Y.K., Qin, B., and Wang, Y.: Formulation composition, manufacturing process, and characterization of poly(lactide-co-glycolide) microparticles, *J. Control. Release*, 329: 1150-1161, 2021.
- 301) Park, K., Otte, A., Sharifi, F., Garner, J. Skidmore, S., Park, H., Jhon, Y.K., Qin, B., and Wang, Y.: Potential roles of the glass transition temperature of PLGA microparticles in drug release kinetics, *Mol. Pharm.* 18: 18-32, 2021.
- 302) Park, K. and Mrsny, R.: Perspective: Are controlled release scientists doing enough for our environment? *J. Control. Release*. 332: 620-622, 2021.
- 303) Garner, J., Skidmore, S., Hadar, J., Park, H, Park, K., Jhon, Y.K., Qin, B., Wang, Y. Jhon, Y.K., Qin, B., and Wang, Y.: Analysis of semi-solvent effects for PLGA polymers, *Int. J. Pharm.*, 602: 120627, 2021.
- 304) Otte, A., Damen, F., Goergen, C., and Park, K.: Coupling the in vivo performance to the in vitro characterization of PLGA microparticles, *Int. J. Pharm.*, 604: 120738, 2021.

- 305) Sharifi, F., Meqbil, Y.J., Otte, A., Guttridge, A.M., Blaine, A.T., van Rijn, R.M., Park, K.: Engineering quick- and long-acting naloxone delivery systems for treating opioid overdose, *Pharm. Res.* 38: 1221-1234, 2021.
- 306) Zheng, F., Hou, P., Corpstein, C.D., Park, K., and Li, T.: Multiscale pharmacokinetic modeling of the systemic exposure and bioavailability of subcutaneously injected biotherapeutics, *J. Control. Release*, 337: 407-416, 2021.
- 307) Sharifi, F., Otte, A., and Park, K.: Initial formation of the skin layer of PLGA microparticles, *Adv. Healthcare Mater.*, 10: 2101427 (11 pages), 2021.
- 308) Park, H., Otte, A., and Park, K.: Evolution of drug delivery systems: From 1950 to 2020 and beyond, *J. Control. Release*, 342: 53-65, 2022.
- 309) Chen, Y.-C., Moseson, D.E., Richard, C.A., Swinney, M.R., Horava, S.D., Oucherif, K.A., Cox, A.L., Hawkins, E.D., Li, Y., DeNevel, D.F., Lomeo, J., Zhu, A., Lyle, L. T., Munson, E., Taylor, L.S., Park, K., and Yeo, Y.: Development of hot-melt extruded drug/polymer matrices for sustained delivery of meloxicam, *J. Control. Release*, 342: 189-200, 2022.
- 310) Park, K., Otte, A., and Park, H.: Perspective on drug delivery in 2050, *J. Control. Release*, 344: 157-159, 2022.
- 311) Otte, A. and Park, K.: Transitioning from a lab-scale PLGA microparticle formulation to pilot-scale manufacturing, *J. Control. Release*, 348: 841-848, 2022.
- 312) Otte, A., Turasan, H., and Park, K.: Implications of particle size on the respective solid-state properties of naltrexone in PLGA microparticles, *Int. J. Pharm.* 626: 122170 (7 pages), 2022.
- 313) Garner, J., Skidmore, S., Hadar, J., Park, H, Park, K., Qin, B., and Wang. Y.: Surface analysis of sequential semi-solvent vapor impact (SAVI) for studying microstructural arrangements of poly(lactide-co-glycolide) microparticles, *J. Control. Release*, 350: 600-612, 2022.
- 314) Yang, J., Wang, X., Wang, B., Park, K., Wooley, K., NS Zhang, S.: Challenging the fundamental conjectures in nanoparticle drug delivery for chemotherapy treatment of solid cancers, *Adv. Drug Del. Rev.*, 190: 114525 (16 pages), 2022.
- 315) Garner, J., Skidmore, S., Hadar, J., Park, H, Park, K., Otte, A., Jhon, Y.L., Xu, X., Qin, B., and Wang. Y.: Scanning analysis of sequential semi-solvent vapor impact (SAVI) to study naltrexone release from PLGA microparticles, *Mol. Pharm.*, 19 (11): 4286-4298, 2022.
- 316) Nejati, S., Wang, J., Sedaghat, S., Balog, N.K., Long, A.M, Kasi, V., Park, K., Johnson, J.S., Verma, M., and Rahimi, R.: Smart capsule for targeted proximal colon microbiome sampling, *Acta Biomaterialia*, 154: 83-96, 2022.
- 317) Organski, L., Wang, X., Meyers, A., Chen, Y.-C., Park, K., Horava, S.D., Richard, C.A., Yeo, Y., and Shashurin, A.: Inner surface modification of polyethylene tubing induced by DBD plasma. *Journal of Vacuum Science and Technology A.*, 40 (6): 063005, 2022.
- 318) Pei, Y., Wang, J., Khaliq, N.U., Meng, F., Oucherif, K.A., Xue, JU., Horava, S.D., Cox, A.L., Richard, C.A., Swinney, M.R., Park, K., and Yeo, Y.: Development of poly(lactide-co-glycolide) microparticles for sustained delivery of meloxicam, *J. Controlled Rel.*, 353:823-831, 2023.

- 319) Ji, Y.B., Lee, S., Ju, H.J., Kim, H.E., Noh, J.H., Choi, S., Park, K., Lee, H.B., and Kim, M.: Preparation and evaluation of injectable microsphere for longer sustained release of donepezil, *J. Control. Release*, 356: 43-58, 2023.
- 320) Chen, Y.-C., Shishikura, S., Moseson, D., Ignatovich, A.J., Lomeo, J., Zhu, A., Horava,, S.D., Richard, C.A., Swinney, M.R., Park, K., and Yeo, Y.: Control of drug release kinetics from hot-melt extruded drug/polycaprolactone matrices, *J. Control. Release*, 359: 373-383, 2023.
- 321) Otte, A., Soh, B.K., and Park, K.: The impact of post-processing temperature on PLGA microparticle properties, *Pharm. Res.*, 40: 2677-2685, 2023.
- 322) Corpstein, C.D., Hou, P., Park, K., and Li, T.: Multiphysics simulation of local transport and absorption coupled with pharmacokinetic modeling of systemic exposure of subcutaneously injected drug solution, *Pharm. Res.*, 40: 2873-2886, 2023.
- 323) Park, K., Otte, A., and Li, T.: Bohemian rhapsody of the future drug delivery systems: Rational changes necessary for the next revolution, *Mol. Pharm.*, 2024, <https://doi.org/10.1021/acs.molpharmaceut.4c00550>.
- 324) Wang, Y., Otte, A., Park, H., and Park, K.: In vitro-in vivo correlation (IVIVC) development for long-acting injectable drug products based on poly(lactide-co-glycolide), *J. Control. Release*, Submitted for review.
- 325) Garner, J. and Park, K.: Nuplon: New synthetic polymers fully degradable in water, *J. Control. Release*, Submitted for review.

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 Elisseeff 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.: Hydrtropic 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., Kitsongsermthom, 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 Hydrogels: 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. Springer, 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) Garner, J. and Park, K. Chemically Modified Natural Polysaccharides to Form Gels, in: K.G. Ramawat, J.-M. Mérillon (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) 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).
- 94) 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).
- 95) 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.
- 96) 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
- 97) 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, Singapore, 2016, Chapter 2 (pp. 17-41).
- 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.
- 192) Enhanced immune responses by co-adsorption of liposomal adjuvant formulations to the aluminum-antigen complex, *J. Control. Release* 275 (2018) 269.
- 193) Microchamber arrays for controlled NIR laser mediated drug delivery to single cells, *J. Control. Release* 276 (2018) 168.
- 194) Implants attenuating vaginal T lymphocyte activation and inflammation, *J. Control. Release* 277 (2018) 183.
- 195) Functional recovery in spinal cord injury using mesenchymal stem cells, *J. Control. Release* 278 (2018) 159.
- 196) 3D mesoscopic fluorescence tomography for photoimmunotherapy monitoring in vivo, *J. Control. Release* 279 (2018) 355.
- 197) Enhanced bacterial cancer therapy with hydroxychloroquine liposomes, *J. Control. Release* 280 (2018) 124.
- 198) Combined therapy of imatinib and an anti-CTLA4 immune-checkpoint inhibitor, *J. Control. Release* 281 (2018) 196.
- 199) Thermo-responsive polypeptides and micromechanical machines for sustained delivery to the posterior eye, *J. Control. Release* 283 (2018) 291.
- 200) Enhanced treatment of lung cancer by metronomic therapy with oral pemetrexed, *J. Control. Release* 284 (2018) 250.
- 201) Triggered delivery of sequestered siRNA to the heart, *J. Control. Release* 285 (2018) 258.
- 202) Quantitative non-invasive imaging of target engagement in small animals, *J. Control. Release* 286 (2018) 485.

- 203) Impact of anti-PEG antibodies on PEGylated nanoparticles fate in vivo, *J. Control. Release* 287 (2018) 257.
- 204) New biomedical polymer targeting E-selectin to reduce atherosclerosis, *J. Control. Release* 288 (2018) 277.
- 205) Multi-functional peptide-modified liposomes for treatment of glioma, *J. Control. Release* 289 (2018) 171.
- 206) Inherent antimicrobial activity by bacteria-derived vesicles, *J. Control. Release* 290 (2018) 180.
- 207) Drug transport-based therapeutic resistance in breast cancer liver metastases, *J. Control. Release* 291 (2018) 196.
- 208) Different phase behaviors of enzalutamide amorphous solid dispersion, *J. Control. Release* 292 (2018) 277-278.
- 209) Core-shell polymer particles as flexible platform for vaccination, *J. Control. Release* 293 (2018) 224-225.
- 210) Probing the mechanism of drug release from liposomes, *J. Control. Release* 294 (2019) 390.
- 211) Optimal nanoparticle design for effective transport through the blood-brain barrier, *J. Control. Release* 295 (2019) 290
- 212) Albumin-binding Auristatin prodrugs for long-term tumor regressions, *J. Control. Release* 296 (2019) 258.
- 213) PK/PD model for liposomal chemophototherapy, *J. Control. Release* 297 (2019) 102.
- 214) Transcending nanomedicine to the next level: Are we there yet? *J. Control. Release* 298 (2019) 213.
- 215) Pharmacokinetic studies for cochlear drug delivery, *J. Control. Release* 299 (2019) 165.
- 216) Collective progress in drug delivery, *J. Control. Release* 300 (2019) 197-199.
- 217) Bioink-guided spatio-temporal gene delivery for tissue engineering, *J. Control. Release* 301 (2019) 190.
- 218) Allen, C. and Park, K.: What do we do next? *J. Control. Release* 302 (2019) 190.
- 219) The beginning of the end of the nanomedicine hype, *J. Control. Release* 305 (2019) 221-222.
- 220) Automatic antidote delivery device for opioid overdose, *J. Control. Release* 306 (2019) 177.
- 221) Shape-dependent bioavailability of lovastatin nanocrystals, *J. Control. Release* 307 (2019) 423.
- 222) Science The Endless Frontier, *J. Control. Release* 308 (2019) 240.
- 223) JCR is attuned for the 2020s, *J. Control. Release* 3017 (2020) 385.

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) 439-440.
- 8) Kinam Park: Collective progress in drug delivery, *J. Control. Release* 300 (2019) 197-199.
- 9) Kinam Park: *J. Control. Release* 302 (2019) 204.

- 10) Kinam Park: *J. Control. Release* 304 (2019) 289.
- 11) Kinam Park: *J. Control. Release* 306 (2019) 178.
- 12) Kinam Park: Fresh air in the JCR editorial team, *J. Control. Release* 307 (2019) 424.
- 13) Kinam Park: JCR is attuned for the 2020s, *J. Control. Release* 317 (2019) 385.

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
U.S. Patent No. 10,011,689 B2
- 24) 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: USPTO Application No.: 15/684,134
Filed on August 23, 2017
Approved on December 11, 2020
U.S. Patent No. 11,000,479
- 25) Soh, B.K., Yoon, G., Otte, A., and Park, K.
Injectable long-acting naltrexone microparticle compositions
U.S. Application No.: 16/653,707 (2019.10.15). Allowed on Feb. 12, 2021.
PCT Application No.: PCT/KR2019/013535 (2019.10.15)
U.S. Patent No. 11,000,479
- 26) Garner, J. and Park, K.
Synthesis of environmentally degradable alkyl polyesters
U.S. Application No.: 17/304,496 (6/22/2021)
PCT Application No.: PCT/US2170743/17304496
- 27) Garner, J. and Park, K.
Synthesis of environmentally degradable alkyl polyesters
U.S. Application No.: 18/332,724 (6/10/2023)
- 28) Otte, A. and Park, K.
Biodegradable compacted formulations and methods of use and manufacture thereof
U.S. Application No.: 18/ 538,022 (12/13/2023)