

## 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) 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.
- 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) 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.
- 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.: The use of ultrasound imaging and fluoroscopic imaging to study gastric retention of enzyme-digestible hydrogels, *Biomaterials*, 13: 289-296, 1992.
- 28) Amiji, M., Park, H., and Park, K.: Study on the prevention of surface-induced platelet activation by albumin coating, *J. Biomater. Sci. Polymer Edn.*, 3: 375-388, 1992.
- 29) Shalaby, W.S.W., Chen, M., and Park, K.: A mechanistic assessment of enzyme-induced degradation of albumin-crosslinked hydrogels, *J. Bioact. Compat. Polymers*, 7: 257-274, 1992.
- 30) Amiji, M. and Park, K.: Prevention of protein adsorption and platelet adhesion on surfaces by PEO/PPO/PEO triblock copolymers, *Biomaterials*, 13: 682-692, 1992.
- 31) Amiji, M. and Park, K.: Surface modification by radiation-induced grafting of PEO/PPO/PEO triblock copolymers, *J. Colloid Interf. Sci.*, 155: 251-255, 1993.
- 32) Tseng, Y.C., Kim, J., and Park, K.: Photografting of albumin onto dimethyl-dichlorosilane-coated glass, *J. Biomaterials Applications*, 7: 233-249, 1993.
- 33) Shalaby, W.S.W., Jackson, R., Blevin, W.E., and Park, K.: Synthesis of enzyme-digestible, interpenetrating hydrogel networks by gamma-irradiation, *J. Bioact. Compat. Polymers*, 8: 3-23, 1993.
- 34) Amiji, M. and Park, K.: Surface modification of polymeric biomaterials with poly(ethylene oxide), albumin, and heparin for reduced thrombogenicity, *J. Biomater. Sci. Polymer Edn.*, 4:217-234, 1993.
- 35) Tseng, Y.C., Mullins, W.M., and Park, K.: Albumin grafting onto polypropylene by thermal activation, *Biomaterials*, 14: 392-400, 1993.
- 36) Shalaby, W.S.W., Abdallah, A.A., Park, H., and Park, K.: Loading of albumin into hydrogels by an electrophoretic process, *Pharm. Res.*, 10: 457-460, 1993.
- 37) Park, H. and Park, K.: Role of polymers in pharmaceutical products, *ACS Symp. Ser.*, 540: 2-15, 1994.
- 38) Amiji, M. and Park, K.: Surface modification of polymeric biomaterials with PEO: A steric repulsion approach, *ACS Symp. Ser.*, 540: 135-146, 1994.
- 39) Bowersock, T.L., Shalaby, W.S.W., Samuels, M.L., White, M.R., Lallone, R., Levy, M., Ryker, D., and Park, K.: Poly(methacrylic acid) hydrogels as carriers of bacterial exotoxins in an oral vaccine for cattle, *ACS Symp. Ser.*, 540: 288-296, 1994.
- 40) Kamath, K. and Park, K.: Preparation and characterization of enzyme-digestible hydrogels from natural polymers by gamma-irradiation, *ACS Symp. Ser.*, 545: 55-65, 1994.

- 41) Lee, S.J. and Park, K.: Study of polymer-solvent interactions using computational chemistry, *ACS Symp. Ser.*, 545: 221-233, 1994.
- 42) Bowersock, T.L., Shalaby, W.S.W., Blevins, W.E., Levy, M., and Park, K.: Poly(methacrylic acid) hydrogels for rumen bypass and the delivery of oral vaccines to ruminants, *ACS Symp. Ser.*, 545: 214-220, 1994.
- 43) Amiji, M.A. and Park, K.: Analysis on the surface adsorption of PEO/PPO/PEO triblock copolymers by radiolabeling and fluorescence techniques, *J. Applied Polymer Sci.*, 52: 539-544, 1994.
- 44) Kamath, K. and Park, K.: Surface modification of polymeric biomaterials by albumin grafting using gamma-irradiation, *Journal of Applied Biomaterials*, 5: 163-173, 1994.
- 45) Kamath, K., Park, H., Shim, H.S., and Park, K.: Albumin grafting on dimethyldichlorosilane-coated glass by gamma-irradiation, *Colloids and Surfaces. B. Biointerfaces*, 2: 471-479, 1994.
- 46) Bowersock, T.L., Shalaby, W.S.W., Levy, M.L., Samuels, M.L., Lallone, R., White, M.R., Borie, D.L., Lehmyer, J., and Park, K.: Evaluation of an orally administered vaccine using hydrogels containing bacterial exotoxins of *Pasteurella Haemolytica* in cattle, *Am. J. Veterinary Res*, 55(4): 502-509, 1994.
- 47) Lee, S.J. and Park, K.: Protein interaction with surfaces: Separation distance-dependent interaction energies, *J. Vacuum Science and Technology A.*, 12(5): 2949-2956, 1994.
- 48) Bowersock, T.L., Shalaby, W.S.W., Levy, M., Blevins, W.E., and Park, K.: The potential use of poly(methacrylic acid) hydrogels for the oral administration of vaccines to ruminants, *J. Control. Release*, 31: 245-254, 1994.
- 49) Tseng, Y.-C., McPherson, T., Yuan, C.S., and Park, K.: Grafting of ethylene glycol/butadiene block copolymers on to dimethyldichlorosilane-coated glass by  $\gamma$ -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  $\gamma$ -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) Chen, J. and Park, K.: Synthesis of fast-swelling, superporous sucrose hydrogels, *Carbohydrate Polymers*, 41: 259-268, 2000.
- 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) 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.
- 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) 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.
- 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  $\alpha$ -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) 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.
- 112) Omidian, H. and Park, K.: Experimental design in 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) 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.
- 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., Rocca, J.G., and Park, K.: 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  $\alpha$ -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) 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.
- 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<sup>®</sup>: 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) 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.
- 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  $\alpha$ -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) Berhane, N.H., 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) 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.
- 165) 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.
- 166) 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.
- 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 Ni<sup>2+</sup>: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) 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, 2007.
- 177) 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.
- 178) 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.
- 179) 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.
- 180) 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.
- 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 PDLA 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) 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.
  - 193) 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.
  - 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) 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.
  - 201) 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.

- 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., 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.
- 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) Park, Kyeongsoon, and Park, Kinam: Oral protein delivery: Current status and future prospect, *Reactive and Functional Polymers*, 71: 280-287, 2011.
- 215) 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.
- 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) 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.
- 223) 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.
- 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 glycolchitosan 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) 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.
- 232) Lee, S.Y., Kim, S.W., Tyler, J., Park, K., and Cheng J.-X.: Blood-stable, tumor-adaptable disulfide bonded MPEG-(Cys)<sub>4</sub>-PDLLA micelles for chemotherapy, *Biomaterials*, 34: 552-561, 2013.
- 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) 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.
- 242) 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.
- 243) 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.
- 244) 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.
- 245) Park, K.: The controlled drug delivery systems: Past forward and future back, *J. Control. Release*, 190: 3-8, 2014.
- 246) 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.
- 247) 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.
- 248) Lee, B.K., Yun, Y.H., and Park, K.: Smart Nanoparticles for Drug Delivery: Boundaries and Opportunities, *Chemical Engineering Science*, 125: 158-164, 2015.
- 249) 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.
- 250) 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.
- 251) 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.
- 252) 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.

- 253) 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.
- 254) 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.
- 255) 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.
- 256) 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.
- 258) 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.
- 258) 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 (2016) 168-176.
- 259) Park, K.: Drug Delivery of the Future: Chasing the Invisible Gorilla, *J. Control. Release*, 240: 2-8, 2016.
- 260) 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.
- 261) 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.
- 262) Park, K.: Drug delivery research: The invention cycle, *Mol. Pharm.*, 13 (7): 2143-2147, 2016.
- 263) He, Y. and Park, K.: Effects of the microparticle shape on cellular uptake, *Mol. Pharm.*, 13: 2164-2171, 2016.
- 264) 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.
- 265) Lee, B.K., Yun, Y., and Park, K.: PLA micro- and nano-particles, *Adv. Drug Del. Rev.*, 106: 176-191, 2016.
- 266) 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.
- 267) 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.
- 268) 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.

- 269) Lee, H.C., Ejserholm, F. Gaire, J. Currlin, 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.
- 270) Salva, R., Mrsny, R., Park, K., Aubert, I., and Stamoran, C.: Insights and lessons from a scientific conference on non-invasive delivery of macromolecules, *Pharm. Res.*, 34: 1149-1151, 2017.
- 271) 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.
- 272) 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.
- 273) 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*, in press.
- 274) Barwinska, D., Garner, J. Davidson, D., Eckert, G., Cook, T., Tholpady, S.S., March, K., Park, K., and Barco, C.: Use of hydrogel tissue expander in oral mucosa for surgical grafting: addressing the importance of adequate tissue perfusion. *Plastic and Reconstructive Surgery-Global Open*, in press.
- 275) 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.*, in press.
- 276) Park, K.: The drug delivery field at the inflection point: Time to fight its way out of the egg, *J. Control. Release*, in press.
- 277) Lee, H.C., Gaire, J., Currlin, 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 Neuroscience*, in press.
- 278) 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.*, submitted.