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EDUCATION

- ◆ **Doctor of Philosophy**, Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, Aug. 22, 2003
Advisor: Professor Tae Gwan Park, Ph.D.
Thesis title: "Polymeric Nano-particular and Micellar Gene Delivery Systems for Gene Therapy"
- ◆ **Master of Education**, Department of Biology Education, Seoul National University, Republic of Korea, Feb. 26, 1996
Advisor: Professor Guhung Jung, Ph.D.
Thesis title: "The Catalytic Properties of Human Hepatitis B Virus Polymerase"
- ◆ **Bachelor of Science**, Department of Biotechnology, Chung-Ang University, Republic of Korea, Feb. 18, 1994

PROFESSIONAL EXPERIENCE

- ◆ **Professor**, School of Pharmacy, Sungkyunkwan University, Republic of Korea, Oct. 2018 to Present
- ◆ **Assistant and Associate Professor**, School of Pharmacy, Sungkyunkwan University, Republic of Korea, Oct. 2007 to Sep. 2018
- ◆ **Postdoctoral Research Associate**, Department of Pharmaceutics and Pharmaceutical Chemistry, University of Utah, USA, Mar. 2004 to Aug. 2007
 - *Advisor: Professor Sung Wan Kim, Ph.D.*
- ◆ **Postdoctoral Fellow**, Center for Natural Sciences, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea, Sep. 2003 to Feb. 2004
 - *Advisor: Professor Tae Gwan Park, Ph.D.*
- ◆ **Research Scientist**, Mogam Biotechnology Research Institute, Republic of Korea, Dec. 1995 to Dec. 1996

CITATIONS AND H-INDEX (GOOGLE SCHOLAR)

- ◆ Citations: 12,279 (Total) / 4686 (Since 2018)
- ◆ H-index: 56 (Total) / 40 (Since 2018)
- ◆ i10 Index: 120 (Total) / 99 (Since 2018)

RESEARCH INTERESTS

- ◆ Biomaterials
- ◆ Cancer immunotherapy
- ◆ Delivery systems for macromolecular drugs
- ◆ Engineered cell therapy
- ◆ Molecular imaging
- ◆ Microneedles

ACADEMIC AWARD

- **Grand Prize for Creative Knowledge**, The Ministry of Education, and Science and Technology, Korea, Dec. 2. 2010.
- **Journal of Controlled Release 2008 – 2010 Top Ten Most Cited Article Award**, Elsevier, 2010.
- **Bioneer Award**, “Development of novel delivery systems for anti-sense oligonucleotides”, KAIST/Bioneer Inc., Korea, Mar. 4, 2003.

PATENTS

1. J. H. Jeong, N. W. Kim, “Self-assembled nanoparticle releasing soluble microneedle structure and preparation method therefor” US Patent 0117561 A1, 2019.
2. J. H. Jeong, K. Lee, M. S. Lee, “Calcium phosphate nano-aggregates using hydrophilic polymer modified organic compound containing catechol group and preparation method thereof” Korea Patent No. 10-1465725, Nov. 20, 2014.
3. J. H. Jeong, M. S. Lee, “Nano-micelle type gene carrier containing antioxidant” Korea Patent No. 10-1369716, Feb. 25, 2014.
4. J. H. Jeong, M. S. Lee, “A method for manufacturing dendritic gold nanoparticles using

- antioxidative micelles as a template” Korea Patent No. 10-1362549, Jan. 09, 2014.
5. J. H. Jeong, M. G. Kim, M. S. Lee, Y. L. Jang, “Self-assembled albumin nanoparticles” Korea Patent No. 10-1455921, Oct. 22, 2014.
 6. J. H. Jeong, “Highly efficient gene delivery system consisted of reducible polymer and plasmid DNA with nuclear protein binding motif for active nuclear localization” Korea Patent pending No. 10-2010-0067836, Jul. 14, 2010.
 7. J. H. Jeong, S. Y. Chae, “Amphiphile polymer conjugate consisting of polyethylenimine and bile acid having cell membrane fusion activity” Korea Patent No. 10-1128108, Mar. 12, 2012.
 8. K. S. Blevins, J. H. Jeong, S. W. Kim, “Pancreatic Islet Targeting Biodegradable Poly(Disulfide Amine)s for Gene Delivery” Application No. U-4946, Filed: Sep. 22, 2010.
 9. S. H. Kim, J. H. Jeong, T. Kim, S. W. Kim, D. A. Bull, “Arginine-Conjugated Bio-reducible Poly(disulfide amine) Polymers for Gene Delivery System” U.S. Patent US8153155, Apr. 10, 2012.
 10. J. H. Jeong, T. G. Park, S. H. Kim, “SiRNA-hydrophilic polymer conjugates for intracellular delivery of siRNA and method thereof” U.S. Patent US8969543, Mar. 3, 2015.
 11. J. H. Jeong, T. G. Park, “Hybrid polyelectrolyte complex micelles self-assembled from the conjugate of oligonucleotide and hydrophilic polymers” Korea Patent No. 0466254, Jan. 4, 2005.
 12. J. H. Jeong, T. G. Park, “Conjugate for gene transfer comprising oligonucleotide and hydrophilic polymer, polyelectrolyte complex micelles formed from the conjugate, and methods for preparation thereof” PCT International Publication No. WO 2004/087931 A1, Oct. 14, 2004.
 13. T. G. Park, J. H. Jeong, “Novel polymer-DNA hybrid polymeric micelles composed of hydrophobic poly(D,L-lactic-co-glycolic acid) and hydrophilic oligonucleotides”, Korea Patent No. 0411234, Dec. 02, 2003.

BOOK CHAPTERS

1. J. H. Jeong, “Drug Metabolism” in *Biopharmaceutics (Edited by Korean Association of Pharmacy Education)*, Chapter 4, Shinil Books Co., Feb. 28, 2013.
2. J. H. Jeong, “Biologics” in *Summary on Pharmaceutics (Edited by Korean Association of Pharmacy Education)*, Chapter 9, Shinil Books Co., Sep. 2009.
3. J. H. Jeong, “Gene Delivery Systems” in *Biomaterials (Edited by Korean Society for*

Biomaterials), Chapter 12, Freedom Academy Pub. Co., Jun. 2009.

4. J. H. Jeong, S. H. Kim, T. G. Park, “Targeted antisense oligonucleotide micellar delivery systems” in *Nanotechnology in Cancer Therapeutics (Edited by M. M. Amiji)*, Chapter 24, CRC Press LLC, Dec. 2006.

RESEARCH PAPERS (*PEER-REVIEWED SCI(E) JOURNALS ONLY*)

1. H. T. T. Duong, Y. Yin, T. M. D. Le, J. H. Jeong*, D. S. Lee* “Highly Prolonged Release of the Cancer Vaccine and Immunomodulator via a Two-Layer Biodegradable Microneedle for Prophylactic Treatment of Metastatic Cancer” *Biomacromolecules* 24, 1209-1219, 2023
2. N. W. Kim, S. Y. Lim, D. Kim, S. Lyu, O. Whang, C. Park, B. D. Kim, M. S. Lee, J. H. Jeong “Chemoattractant releasing microneedles for enhanced DNA vaccination” *J. Ind. Eng. Chem.* 117, 109-116, 2023.
3. P. N. Chien., J. H. Jeong, S. Y. Nam, S. Y. Lim., N. V. Long, X. R. Zhang, J. H. Jeong*, C. Y. Heo* “Nanomicelle-generating Microneedles Loaded With Tranilast for Treatment of Hypertrophic Scars in a Rabbit Model” *In Vivo* 36, 1734-1744, 2022.
4. G. Kwak, J. Cheng, H. Kim, S. Song, S. J. Lee, Y. Yang, J. H. Jeong, J. E. Lee, P. B. Messersmith, S. H. Kim “Sustained Exosome-Guided Macrophage Polarization Using Hydrolytically Degradable PEG Hydrogels for Cutaneous Wound Healing: Identification of Key Proteins and MiRNAs, and Sustained Release Formulation” *Small*, 18, 2200060, 2022.
5. M. Kim., J. Oh, Y. Lee., E.-H. Lee., S. H. Ko., J. H. Jeong, C. H. Park, M. Lee “Delivery of self-replicating messenger RNA into the brain for the treatment of ischemic stroke” *J. Contr. Rel.* 350, 471-485, 2022.
6. J. Jung, S. Y. Lim, D. Kim, S. Lyu, O. Whang, C. Park, B. D. Kim, M. S. Lee, J. H. Jeong “Microneedle-Directed Drug Delivery to Tumor-Draining Lymph Node for Synergistic Combination Chemoimmunotherapy for Metastatic Cancer” *Adv. Ther.* 2100217, 2022.
7. D. Jung, J. B. Jung, S. Kang, K. Li, I. Hwang, J. H. Jeong, H. S. Kim, J. Lee “Toxicometabolomics study of a deep eutectic solvent comprising choline chloride and urea suggests in vivo toxicity involving oxidative stress and ammonia stress” *Green Chem.* 23, 1300-1311, 2021.
8. E. S. Kim, M. S. Lee, H. Jeong, S. Y. Lim., D. Kim, D. Kim, J. Jung, S. Lyu, H. J. Cho, D. M. Kim., W. Suh, J. H. Jeong “Sustained-Release Microspheres of Rivoceranib for the Treatment of Subfoveal Choroidal Neovascularization” *Pharmaceutics* 13, 1548-1558,

2021.

9. Y. Yin, W. Su, Jie Zhang, W. Huang, X. Li, H. Ma, M. Tan, H. Song, G. Cao, S. Yu, D. Yu, J. H. Jeong, X. Zhao, H. Li, G. Nie, H. Wang “Separable Microneedle Patch to Protect and 2 Deliver DNA Nanovaccines Against COVID-19” *ACS Nano* 15, 14347-14359, 2021.
10. J. S. Choi, M. S. Lee, J. Kim, M. R. Eom, E. J. Jeong, M. Lee, S. A. Park, J. H. Jeong*, S. K. Kwon* “Hyaluronic Acid Coating on Hydrophobic Tracheal Scaffold Enhances Mesenchymal Stem Cell Adhesion and Tracheal Regeneration” *Tissue Eng. Regen. Med.* 18, 225–233, 2021
11. S. Kang, H. Namgoong, W. S. Son, Y. D. Kim, K. M. Jeong, Y. Jin, H.-S. Won, J. Hong, J. H. Jeong, and Jeongmi Lee, “Insights into the Vastly Different Effects of Eutectic Solvents on the Stability of Phenolic Compounds” *Phys. Chem. Lett.* 11, 5268-5272, 2020
12. J. Oh, S. M. Kim, E. H. Lee, M. Kim, Y. Lee, S. H. Ko, J. H. Jeong, C. H. Park, M. Lee “Messenger RNA polymeric carrier nanoparticles for delivery of heme oxygenase-1 gene in the post-ischemic brain” *Biomater. Sci.*, 8, 3063–3071, 2020.
13. J. Y. Jang, T. M. D. Le, J. H. Ko, Y. J. Ko, S. M. Lee, H. J. Kim, J. H. Jeong, T. Thambi, D. S. Lee, S. U. Son “Triple-, Double-, and Single-Shelled Hollow Spheres of Sulfonated Microporous Organic Network as Drug Delivery Materials” *Chem. Mater.* 31, 2, 300–304, 2020.
14. S. Y. Wang, H. Kim, G. Kwak, S. D. Jo, D. Cho, Y. Yang, I. C. Kwon, J. H. Jeong*, S. H. Kim* “Development of microRNA-21 mimic nanocarriers for the treatment of cutaneous wounds” *Theranostics*, 10, 3240–3253, 2020.
15. T. L. Nguyen, Y. Yin, Y. Choi, J. H. Jeong*, J. Kim* “Enhanced cancer DNA vaccine via direct transfection to host dendritic cells recruited in injectable scaffolds” *ACS Nano* 14, 11623–11636, 2020.
16. H. T. T. Duong, T. Thambi, Y. Yin, S. H. Kim, T. L. Nguyen, V. H. G. Phan, J. Kim, J. H. Jeong*, D. S. Lee*, “Degradation-regulated architecture of injectable smart hydrogels enhances humoral immune response and potentiates antitumor activity in human lung carcinoma” *Biomaterials* 230, 119599, 2020.
17. J. Oh, J. Lee, C. Piao, J. H. Jeong, M. Lee “A self-assembled DNA-nanoparticle with a targeting peptide for hypoxia-inducible gene therapy of ischemic stroke” *Biomater. Sci.* 23, 7, 2174-2190, 2019.
18. Y. Yin, T. L. Nguyen, B. Wang, H. T. T. Duong, D. S. Lee, J.-H. Kim, J. Kim, J. H. Jeong “Simultaneous delivery of DNA vaccine and hydrophobic adjuvant using reducible polyethylenimine-functionalized graphene oxide for activation of dendritic cells” *J.*

Industrial and Engineering Chemistry 80, 870-876, 2019.

19. Y. Yin, M. S. Lee, J. E. Lee, S. Y. Lim, E. S. Kim, J. Jeong, D. Kim, J. Kim, D. S. Lee, J. H. Jeong*, “Effective systemic siRNA delivery using dual-layer protected long-circulating nanohydrogel containing inorganic core” *Biomaterials Science* 7, 3297-3306, 2019.
20. H. T. T. Duong, T. Thambi, Y. Yin, J. E. Lee, Y. K. Seo, J. H. Jeong*, D. S. Lee*, “Smart pH-Responsive Nanocube-Controlled Delivery of DNA Vaccine and Chemotherapeutic Drugs for Chemoimmunotherapy” *ACS Applied Materials & Interfaces* 11, 13058-13068, 2019.
21. J. E. Lee, Y. Yin, S. Y. Lim, E. S. Kim, J. Jung, D. Kim, J. W. Park, M. S. Lee, J. H. Jeong*, “Enhanced Transfection of Human Mesenchymal Stem Cells Using a Hyaluronic Acid/Calcium Phosphate Hybrid Gene Delivery System” *Polymers* 11, 798-810, 2019.
22. V. H. G. Phan, H. T. T. Duong, T. Thambi, T. L. Nguyen, M. H. Turabee, Y. Yin, S. H. Kim, J. Kim, J. H. Jeong*, D. S. Lee* “Modularly engineered injectable hybrid hydrogels based on protein-polymer network as potent immunologic adjuvant in vivo” *Biomaterials* 195, 100-110, 2019.
23. J. E. Lee, K. Lee, J. A. Nam, A. Kim, S. Y. Lee, M. S. Lee, N. W. Kim, Y. Yin, J. W. Park, S. Y. Park, J. H. Jeong “Cellular delivery of siRNA using poly(2-dimethylaminoethyl methacrylate)-functionalized graphene oxide nano-wrap” *Macromol. Res.* 26, 1115-1122, 2018.
24. M. S. Lee, N. W. Kim, J. E. Lee, M. G. Kim, Y. Yin, S. Y. Kim, B. S. Ko, A. Kim, J. H. Lee, S. Y. Lim, D. W. Lim, S. H. Kim, J. W. Park, Y. T. Lim, J. H. Jeong “Targeted cellular delivery of robust enzyme nanoparticles for the treatment of drug-induced hepatotoxicity and liver injury” *Acta Biomaterialia* 81, 231-241, 2018.
25. H. T. T. Duong, Y. Yin, T. Thambi, T. L. Nguyen, V. H. G. Phan, M. S. Lee, J. E. Lee, J. Kim, J. H. Jeong*, D. S. Lee* “Smart vaccine delivery based on microneedle arrays decorated with ultra-pH-responsive copolymers for cancer immunotherapy” *Biomaterials* 185, 13-24, 2018.
26. Y. K. Kim, J. E. Lee, B. Ryplida, C. A. Choi, Z. A. I. Mazrad, G. Lee, S. Lee, I. In, J. H. Jeong*, S. Y. Park* “Redox-responsive FRET-based polymer dot with BODIPY for fluorescence imaging-guided chemotherapy of tumor” *European J. Pharmaceutics Biopharmaceutic* 132, 200-210, 2018.
27. Y. Yin, J. E. Lee, N. W. Kim, J. H. Lee, S. Y. Lim, E. S. Kim, J. W. Park, M. S. Lee, J. H. Jeong “Inhibition of tumor growth via systemic siRNA delivery using reducible bile acid-conjugated polyethylenimine” *Polymers* 10, 953, 2018
28. N. W. Kim, S. Y. Kim, J. E. Lee, Y. Yin, J. H. Lee, S. Y. Lim, E. S. Kim, H. T. T. Duong,

- H. K. Kim, S. Kim, J. E. Kim, D. S. Lee, J. Kim, M. S. Lee, Y. T. Lim, J. H. Jeong “Enhanced Cancer Vaccination by In Situ Nanomicelle-Generating Dissolving Microneedles” *ACS Nano* 12, 9702-9713, 2018.
29. J. E. Lee, M. G. Kim, Y. L. Jang, M. S. Lee, N. W. Kim, Y. Yin, J. H. Lee, S. Y. Lim, J. W. Park, J. Kim, D. S. Lee, S. H. Kim, J. H. Jeong, “Self-assembled PEGylated albumin nanoparticles (SPAN) as a platform for cancer chemotherapy and imaging” *Drug Delivery* 25, 1570-1578, 2018.
 30. M. S. Lee, K. Lee, M. W. Nam, K. M. Jeong, J. E. Lee, N. W. Kim, Y. Yin, S. Y. Lim, D. E. Yoo, J. Lee, J. H. Jeong “Natural deep eutectic solvents as a storage medium for human interferon- α 2: a green and improved strategy for room-temperature biologics” *J. Industrial and Engineering Chemistry* 65, 343-348, 2018.
 31. C. A. Choi, J. E. Lee, Z. A. I. Mazrad, Y. K. Kim, I. In, J. H. Jeong*, S. Y. Park* “Dual-responsive carbon dot for pH_redox triggered fluorescence imaging with controllable photothermal ablation therapy of cancer” *ChemMedChem* 13, 1459-1468, 2018.
 32. M. D. L. Thai, T. T. D. Huu, T. Thambi, V. H. G. Phan, J. H. Jeong*, D. S. Lee* “Bioinspired pH- and Temperature-Responsive Injectable Adhesive Hydrogels with Polyplexes Promotes Skin Wound Healing” *Biomacromolecules* 19, 3536-3548, 2018.
 33. B. G. Cha, J. H. Jeong, J. Kim “Extra-Large Pore Mesoporous Silica Nanoparticles Enabling Co-Delivery of High Amounts of Protein Antigen and Toll-like Receptor 9 Agonist for Enhanced Cancer Vaccine Efficacy” *ACS Central Science* 4, 484-492 2018.
 34. C. A. Choi, J. E. Lee, Z. A. I. Mazrad, I. In, J. H. Jeong*, S. Y. Park* “Redox- and pH-responsive fluorescent carbon nanoparticles-MnO₂-based FRET system for tumor-targeted drug delivery in vivo and in vitro” *J. Industrial and Engineering Chemistry* 63, 208-219, 2018.
 35. J. Y. Jang, H. T. T. Duong, S. M. Lee, H. J. Kim, Y. J. Ko, J. H. Jeong, D. S. Lee, T. Thambi, S. U. Son, “Folate decorated hollow spheres of microporous organic networks as drug delivery materials” *Chemical Communications* 54, 3652-3655, 2018.
 36. X. Tan, G. Kim, D. Lee, J. Oh, M. Kim, C. Piao, J. Lee, M. S. Lee, J. H. Jeong*, M. Lee*, “A curcumin-loaded polymeric micelle as a carrier of a microRNA-21 antisense-oligonucleotide for enhanced anti-tumor effects in a glioblastoma animal model” *Biomaterials Science* 6, 407-417, 2018.
 37. M. G. Kim, S. D. Jo, J. H. Jeong*, S. H. Kim* “Nanoscale polyelectrolyte complexes encapsulating mRNA and long-chained siRNA for combinatorial cancer gene therapy” *J. Industrial and Engineering Chemistry* 64, 430-437, 2018.
 38. E. B. Kang, J. E. Lee, Z. A. I. Mazrad, I. In, J. H. Jeong*, S. Y. Park*, “pH-Responsible

fluorescent carbon nanoparticles for tumor selective theranostics via pH-turn on/off fluorescence and photothermal effect in vivo and in vitro” *Nanoscale* 10, 2512-2523, 2018.

39. Md. H. Turabee, T. Thambi, H. T. T. Duong, J. H. Jeong, D. S. Lee, “A pH- and temperature-responsive bioresorbable injectable hydrogel based on polypeptide block copolymers for the sustained delivery of proteins in vivo” *Biomaterials Science* 6, 661-671, 2018.
40. B. Y. Shin, B. G. Cha, J. H. Jeong, J. Kim “Injectable macroporous ferrogel microbeads with a high structural stability for magnetically actuated drug delivery” *ACS Applied Materials and Interfaces* 9, 31372–31380, 2017.
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42. S. Choi, Y. Choi, M.-S. Jang, J. H. Lee, J. H. Jeong, J. Kim “Supertough hybrid hydrogels consisting of a polymer double-network and mesoporous silica microrods for mechanically stimulated on-demand drug delivery” *Advanced Functional Materials* 27, 1703862, 2017.
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44. J. Oh, M. S. Lee, J. H. Jeong*, M. Lee* “Deoxycholic acid-conjugated polyethylenimine for delivery of heme oxygenase-1 gene in rat ischemic stroke model” *J. Pharmaceutical Science* 106, 3524-3532, 2017.
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46. A. Sinha, B. G. Cha, Y. Choi, T. L. Nguyen, P. J. Yoo, J. H. Jeong, J. Kim “Carbohydrate-functionalized rGO as an effective cancer vaccine for stimulating antigen-specific cytotoxic T cells and inhibiting tumor growth” *Chemistry Materials* 29, 6883-6892, 2017.
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48. J. Y. Kim, C. Piao, G. Kim, S. Lee, M. S. Lee, J. H. Jeong^{*}, M. Lee^{*} “Combined delivery of a lipopolysaccharide-binding peptide and the heme oxygenase-1 gene using deoxycholic acid-conjugated polyethylenimine for the treatment of acute lung injury” *Macromolecular Bioscience* 17, 1600490, 2017.
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65. M. W. Nam, J. Z., M. S. Lee, J. H. Jeong, J. Lee “Enhanced extraction of bioactive natural products using tailor-made deep eutectic solvents: application to flavonoid extraction from Flos sophorae” *Green Chemistry* 17, 1718-1727, 2015.
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