

Yujin Baek

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EDUCATION

Mar. 2020 ~ Aug. 2026	Seoul National University Department of Materials Science and Engineering	Seoul, Korea
	Thesis: Understanding and Engineering Nanoparticle-Cell Interactions for Enhanced Anticancer Therapy <i>Advisor: Junsang Doh</i> <i>Ph.D. in Materials Science and Engineering</i> GPA: 4.14 / 4.3	
Mar. 2016 ~ Feb. 2020	Yonsei University Department of Materials Science and Engineering	Seoul, Korea
	<i>B.S. in Materials Science and Engineering</i> GPA: 3.9 / 4.3	

RESEARCH INTERESTS

- Nanoparticle
- Endocytosis
- Immunotherapy
- Cancer therapy

RESEARCH EXPERIENCES

- Research Student at Materials Science and Engineering, Seoul National University, Korea (Mar. 2020 ~ Present)

PUBLICATIONS (SCIE/ESCI)

1. HyeMi Kim, Yujin Baek, Taeyong Ha, Doowon Choi, Woo Kin Lee, Yongbum Cho, Jeehun Park, Sungjee Kim, Junsang Doh, "Gold Nanoparticle-Carrying T Cells for the Combined Immuno-Photothermal Therapy", *SMALL*, (2023)
2. Jeehun Park, Yerin Shin, Jung Min Kim, SoonHo Kweon, Ah Young Song, Yujin Baek, Jinho Kim, Duck Cho, Hun Sik Kim, Junsang Doh, "Multifunctional Microparticles with Stimulation and Sensing Capabilities for Facile NK Cell Activity Assay", *ACS SENSORS*, (2021)
3. Dohyun Park, Inae Park, Bohwa Han, Yujin Baek, Dowon Moon, Noo Li Jeon, Junsang Doh, "Cytotoxic Chemotherapy in a 3D Microfluidic Device Induces Dendritic Cell Recruitment and Trogocytosis

of Cancer Cells", *CANCER IMMUNOLOGY RESEARCH*, (2025)

4. Seol-Ha Jeong, Min-Gyu Lee, Chong-Chan Kim, Jeehun Park, Yujin Baek, Byung Ik Park, Junsang Doh, Jeong-Yun Sun, "An implantable ionic therapeutic platform for photodynamic therapy with wireless capacitive power transfer", *MATERIALS HORIZONS*, (2023)
5. Yongho Jang, Jeehun Park, Pilsu Kim, Eun-Joo Park, Hyungjin Sun, Yujin Baek, Jaehun Jung, Taikyong Song, Junsang Doh, Hyuncheol Kim, "Development of exosome membrane materials-fused microbubbles for enhanced stability and efficient drug delivery of ultrasound contrast agent", *ACTA PHARMACEUTICA SINICA B*, (2023)
6. Jihyun Seong, Sehwan Jeong, Sungjun Kim, Seojeong Yun, Yujin Baek, Kyobum Kim, "Ex vivo activation of dendritic cells via coacervate-mediated exogenous tumor cell lysate delivery", *BIOMATERIALS SCIENCE*, (2023)

AWARDS AND HONORS

- 4단계 BK21사업 창의인재 재료교육연구단 참여대학원생 우수 연구실적상, Seoul National University, Korea (Dec. 2023)