

Curriculum Vitae

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직위: 대학원생 (석사과정)

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Education

2026. 02 Incheon National University, Department of Biological Sciences / Life Sciences,
2024. 02 Chonnam National University, Biomedical Engineering
2020. 02 Gwangju Seoseok High School

Career

03/2024 - 06/2024 Teaching experiment classes at Incheon National University
03/2024 - 02/2026 석사과정, Incheon National University, Department of Life Science, Protein Engineering Lab
08/2022 - 06/2023 학부연구생, 전남대학교 의공학과, Translational Bio/Micro Fabrication LAB

Honors and Awards

02/2025 인천대학교 연구소 학생연구단 지원사업, Incheon National University, Incheon, Korea

Publication (1st author)

1. **So B***, Park JH*, Kim MS, Lee H, Yoon JH, Lee YJ, Kim D, Kwon HW, Park J, Han T, Lee YH†, Park JT† (Apr 03, 2025) Rapid and Accurate Genotoxicity Assessment Using the Neutral Comet Assay in *Cyprinus carpio* Cells. (*: co-first author, †: co-corresponding author) **Life** 15(4): 603
2. Lee YH*, **So B***, Lee KS, Kuk MU, Park JH, Yoon JH, Lee YJ, Kim D, Kim MS, Kwon HW, Byun Y†, Lee KY†, Park JT† (Sep 04, 2024) Identification of cellular isoschaftoside-mediated anti-senescence mechanism in RAC2 and LINC00294 (*: co-first author, †: co-corresponding author) **Molecules** 29(17): 4182

Publication (Co-author)

1. Lee YH*, Jeong EY*, Kim YH*, Oh S*. Yoon JH, Park JH, Lee YJ, Kim D, **So B**, Kim M, Kim SY, Kwon HW, Byun Y, Shin SS†, Park JT† (Jan 15, 2026) Liquid Extract from the bark of *Magnolia officinalis* Rejuvenates Skin Aging Through Mitochondrial ROS Reduction. (*: co-first author, †: co-corresponding author) **Cosmetics** 13: 22
2. Kim M*, Park JH*, **So B**, Lee H, Yoon JH, Lee YJ, Kim D, Kwon HW, Park J, Han T, Oh S†, Lee YH†, Park JT† (Oct 29, 2025) Rapid ecotoxicity and genotoxicity assessment using *Macropodus ocellatus* cells. (*: co-first author, †: co-corresponding author) **Toxicological Research** DOI: 10.1007/s43188-025-00325-9
3. **Park JH***, **Lee YH***, Lee KS, Lee YJ, Yoon JH, So B, Kim D, Kim M, Kwon HW, Byun Y, **Lee KY†**, **Park JT†** (Aug 22, 2025) ε-Viniferin Rejuvenates Senescence via RGS16 Regulation: In Vitro Evidence. (*: co-first author, †: co-corresponding author) **Pharmaceutics** 18(9): 1254
4. Lee YJ *, Song ES *, Lee YH, Lee KS, **So B**, Park JH, Yoon JH, Kim D, Kim M, Kwon HW, Byun Y † , Lee KY†, Park JT† (Jun 02, 2025) Dehydroacteoside rejuvenates senescence via TVP23C-CDRT4 regulation. (* : co-first author, † : co-corresponding author) **Experimental Gerontology** doi.org/10.1016/j.exger.2025.112800
5. Park JH *, Jeong EY *, Kim YH *, Cha SY, Kim HY, Nam YK, Park JS, Kim SY, Lee YJ, Yoon JH, **So B**, Kim D, Kim M, Byun Y, Lee YH † , Shin SS † , Park JT † (Apr 23, 2025) Epigallocatechin gallate in *Camellia sinensis* ameliorates skin aging by reducing 2 mitochondrial ROS production. (* : co-first author, † : co-corresponding author) **Pharmaceutics** 18(5): 612
6. Lee YH *, Lim H *, Kim G, Jang G, Kuk MU, , Yoon JH, Lee YJ, Kim D, **So B**, Kim M, Kwon HW, Byun Y † , Park JT † (Apr 16, 2025) Elucidating the role and mechanism of alpha-enolase in senescent amelioration viametabolic reprogramming. (* : co-first author, † : co-corresponding author) **Cell proliferation** DOI: 10.1111/cpr.70049
7. Kuk MU*, Lee YH*, Kim D*, Lee KS, Park JH, Yoon JH, Lee YJ, **So B**, Kim MS, Kwon HW, Lee KY†, Byun Y†, Park JT† (Feb 20, 2025) Sauchinone ameliorates senescence through reducing mitochondrial ROS production. (*: co-first author, †: co-corresponding author) **Antioxidants** 14(3): 259
8. Kuk MU*, Kim D*, Lee YH, Yoon JH, Park JH, Lee YJ, **So B**, Kim MS, Kwon HW, Byun Y†, Park JT† (Nov 28, 2024) Synergistic ROS Reduction Through the Co-Inhibition of BRAF and p38 MAPK Ameliorates Senescence. (*: co-first author, †: co-corresponding author) **Antioxidants** 13(12): 1465
9. Kuk MU, So MK, Park JH, Yoon JH, Lee YJ, Kim D, **So B**, Lee YH, Kim MS, Byun Y, Kwon HW†, Park JT† (Oct 03, 2024) ROSA26 BAC-based System Enables Continuous High-yield Protein Production. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** https://doi.org/10.1007/s12257-024-00158-7
10. Lee YH*, Kuk MU*, Park JH*, Lee H, Lee H, So MK, Yoon JH, Lee YJ, Kim D, **So B**, Kim MS, Park J, Han T†, Park JT† (Sep 05, 2024) Rapid and accurate ecotoxicological assessment of heavy metals using *Cyprinus carpio* cells (*: co-first author, †: co-corresponding author) **Life** 14(9): 1119
11. Song ES, Lee YH, So MK, Kuk MU, Park JH, Yoon JH, Lee YJ, Kim D, **So B**, Byun Y, Kwon HW†, Park JT† (Apr 24, 2024) Establishment of a new promoter trapping vector using 2A peptide. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** 29:520–528

Patents

1. 김민선, 박지호, **소병현**, 이윤행, 이호준, 박지혜, 한태준, 박준태 (Jul 25, 2025), 버들봉어 세포를 이용한 독성물질의 유전독성 평가방법, 10-2025-0101173 (출원)
2. **소병현**, 박지호, 김민선, 이윤행, 이호준, 박지혜, 한태준, 박준태 (Jul 25, 2025), 민물고기 세포를 이용한 독성물질의 유전독성 평가방법, 10-2025-0101172 (출원)
3. 이윤행, **소병현**, 권형욱, 변영주, 이기용, 박준태 (Apr 29, 2024), 이소샤프토사이드를 유효성분으로 포함하는 항노화 조성물, 10-2024-0056806 (출원)

Poster Presentation

1. **So B, Park JT** (2025) Acteoside reverses cellular senescence through senolytic activity and reductions in ROS and SASP markers, 17th International Symposium on Natural Sciences, October 16th ~ October 17th, 2025, Research Institute of Basic Sciences, Incheon National University
2. **So B, Park JT** (2025) A Study on the Senolytic Mechanism of Acteoside for Anti-Aging, International Conference 2025, May 20 ~ May 23, 2025, 생화학분자생물학회
3. **So B, Park JT** (2024) Identification of cellular anti-senescence mechanism: regulatory of RAC2 and LINC00294 mediated by isoschaftoside, 16th International Symposium on Natural Sciences, October 10th ~ October 11th, 2024, Research Institute of Basic Sciences, Incheon National University
4. **So B, Park JT** (2024) Identification of anti-senescence mechanism of isoschaftoside targeting Rac2 protein, International Conference 2024, May 28 ~ May 31, 2024, 생화학분자생물학회