

Curriculum Vitae

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Education

2024. 02. 16 Incheon National University, Department of Biological Sciences / Life Sciences,

2024. 02. 26 Chonnam National University, Biomedical Engineering

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. 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. (* : co-first author, † : co-corresponding author) **Pharmaceutics** 18(9): 1254
2. 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
3. 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
4. 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
5. 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
6. 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
7. 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
8. 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
9. 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 (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
2. **So B**, Park JT (2024) Identification of anti-senescence mechanism of isoschaftoside targeting Rac2 protein, International Conference 2024, May 28 ~ May 31, 2024, 생화학분자생물학회

