Curriculum Vitae

Yoojin Lee (이유진)

Personal E-mail: juli9709@gmail.com

Cell Phone: +82- 010-3278-6702 (cell), +1-205-917-9839 (cell)

Educational Background

2025.02 – present	Master's program, Incheon National University, Division of Life Sciences
2016.03 – 2025. 02	Incheon National University (Incheon, Republic of Korea) Major: Molecular & Medical Science Bachelor of Science GPA: 4.08/4.5

- Received full-tuition scholarship for academic excellence (2018. 09)
- Received full-tuition scholarship for academic excellence (2019. 03)
- Received half-tuition scholarship for excellent foreign language skills (2023. 09)
- Received full-tuition scholarship for academic excellence (2024. 03)

Language skills

2025.07	Duolingo test (100/160)
2023.2 – 2025.2	OPIc IH (Intermediate High)
2022.10 - 2024.10	TOEIC (915/990)
2017.4	Completion in English for Academic purpose (EAP) program Level 1 in Dalhousie, NS, Canada
2017.9	Completion in English for Academic purpose (EAP) program Level 2 in Dalhousie, NS, Canada

Career

2026.01 – present	**Research assistant**, The University of Alabama at Birmingham, School of Dentistry, Endodontics
2023.11 – present	**Research assistant**, protein engineering lab, Incheon National University, Division of Life Sciences
2023.09 – 2023.12	**Foreign Exchange Student Buddy Program,** Incheon National University
	- **- Support for foreign exchange students to adapt to Korean and university life**
2016. 03 – 2025. 02	**Undergraduate course**, Incheon National University, Division of Molecular& Medical Science

Honors and Awards

2025. 11	**Best Poster Award, 17th International Symposium on Natural Sciences**

Technology Transfer

1. Lee YH (37.5%), **Lee YJ (25%)**, Kwon HW (12.5%), Park JT (25%) (Oct 15, 2025), Reverse-aging composition derived from Magnolia officinalis with restoration effects in cellular senescence and metabolic function (세포 노화 및 대사 기능 회복 효능을 갖는 후박나무 유래 역노화 조성물)

Publication (1st Author)

1. **Lee YJ***, Song ES *, Lee YH, Park JH, Yoon JH, Kim M, Kwon HW, Byun Y †, Park JT† **Anti-senescence effects of KB3409 through mitochondrial amelioration by regulating VCP and RCN2** **(논문 작성 진행 중, 한가지 실험 남겨둠)**
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

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 13, 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. (* : co-first author, † : co-corresponding author) **Pharmaceutics** Accepted
4. 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 mitochondrial ROS production. (*: co-first author, †: co-corresponding author) **Pharmaceutics** 18(5): 612
5. Lee YH*, Lim H*, Kim G, Jang G, Kuk MU, Park JH, 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 via metabolic reprogramming. (*: co-first author, †: co-corresponding author) **Cell proliferation** DOI: 10.1111/cpr.70049
6. 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
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. Lee YH, Jeong EY, Kim YH, Park JH, Yoon GH, **Lee YJ**, Lee SH, Nam YK, Cha SY, Park JS, Kim SY, Byun Y†, Shin SS†, Park JT† (Feb 17, 2025) Identification of senescence rejuvenation mechanism of *Magnolia officinalis* extract including honokiol as a core ingredient. (†: co-corresponding author) **Aging** 17(2): 497–523
9. 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
10. Kuk MU, So MK, Park JH, Yoon JH, **Lee YJ**, Kim D, So B, Lee YH, Kim M, 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** 29:1025–1033
11. 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
12. Lee YH*, So BH*, 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
13. 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(3):520–528

International Patent (Filling)

1. Lee YH, **Lee YJ**, Kwon HW, Byun YJ, Kim YH, Lee SH, Cha SY, Nam YK, Jeong EY, Kim SY, Park JS, Shin SS, JT (Jul 30, 2024), Reverse-aging composition derived from Magnolia officinalis with restoration effects in cellular senescence and metabolic function (세포 노화 및 대사 기능 회복 효능을 갖는 후박나무 유래 역노화 조성물), Affiliation No. (출원 번호): PCT/KR2024/015910

Korean Patent (Filling)

2. Lee YH, **Lee YJ**, Kwon HW, Byun YJ, Kim YH, Lee SH, Cha SY, Nam YK, Jeong EY, Kim SY, Park JS, Shin SS, JT (Jul 30, 2024), Reverse-aging composition derived from Magnolia officinalis with restoration effects in cellular senescence and metabolic function (세포 노화 및 대사 기능 회복 효능을 갖는 후박나무 유래 역노화 조성물) Affiliation No. (출원 번호): 10-2024-0142926
3. **Lee YJ**, Song ES, Kwon HW, Lim HW, Byun YJ, Park JT (Jun 13, 2024), ANTI-AGING COMPOSITION COMPRISING PYRAZOLE DERIVATIVE (피라졸 유도체를 유효성분으로 포함하는 항노화 조성물 조성물), Affiliation No. (출원 번호): 10-2024-0077014
4. **Lee YJ**, Song ES, Kwon HW, Byun YJ, Lee GY, Park JT (May 03, 2024), ANTI-AGINGCOMPOSITION COMPRISING DEHYDROACTEOSIDE (디히드로악테오사이드를 유효성분으로 포함하는 항노화조성물), Affiliation No. (출원 번호): 10-2024-0059125

Poster Presentation

1. **Lee YJ**, **Park JT** (2025) Mitochondrial amelioration and anti-aging effects of KB3409, 17th International Symposium on Natural Sciences, October 16th ~ October 17th, 2025, Research Institute of Basic Sciences, Incheon National University
2. **Lee YJ**, Park JT (2025) Mitochondrial amelioration and anti-aging effects of KB3409, 31st The Federation of Asian and Oceanian Biochemists and Molecular Biologists, May 20 ~ May 23, 2025, FAOBMB 2025
3. **Lee YJ**, Park JT (2024) Mitochondrial amelioration and anti-aging effects of a pyrazole analog (KB3409), 16th International Symposium on Natural Sciences, October 10th ~ October 11th, 2024, Research Institute of Basic Sciences, Incheon National University
4. **Lee YJ**, Park JT (2024) Mitochondrial amelioration and anti-aging effects of KB3409. *International Conference 2024*, May 28 ~ May 30, 2024, KSBMB
5. **Lee YJ**, Park JT (2024) Senomorphic effect of dehydroacteoside as an anti-senescence. *International Conference 2024*, May 28 ~ May 30, 2024, KSBMB