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EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE	YEAR(s)	FIELD OF STUDY
Johns Hopkins University School of Medicine, Baltimore, Maryland (Advisor: Steven Leach MD)	PostDoc	2009-2013	Institute of Genetic Medicine
Johns Hopkins University School of Medicine, Baltimore, Maryland (Thesis advisor: Ie-Ming Shih MD PhD)	Ph.D	2004-2009	Pathobiology
Seoul National University, Seoul, Korea	M.S.	2001-2003	Biological Science
Seoul National University, Seoul, Korea	B.S.	1994-2001	Biology education

RESEARCH AND PROFESSIONAL EXPERIENCE:

9/2017 – present	Assistant/Associate Professor, Division of Life Sciences, Incheon National University
9/2024 – 8/2025	Visiting Professor, UT Health San Antonio
1/2016 – 8/2017	Principal Scientist, Drug Substance Team, Samsung Bioepis, Korea
10/2013 – 12/2015	Research Staff Member, Well Aging Center, Samsung Advanced Institute of Technology, Samsung Electronics, Korea
4/2008 – 9/2013	Postdoctoral fellow, Institute of Genetic Medicine, Johns Hopkins University School of Medicine
3/2003 - 7/2004	Research Assistant, School of Biological Sciences, Seoul National University, Seoul, Korea
3/1995 - 5/1997	R.O.K. Army, Korea (Military Service)

Honors and Awards:

Aug 19/2024	Best Lecture Award (최우수강의상 Undergraduate) , 1 st semester 2024, Incheon National University
Feb 24/2024	Excellent Lecture Award (우수강의상 Undergraduate) , 2 nd semester 2023, Incheon National University
Aug 25/2023	Excellent Lecture Award (우수강의상 Undergraduate) , 1 st semester 2023, Incheon National University
Feb 24/2023	Excellent Lecture Award (우수강의상 Undergraduate) , 2 nd semester 2022, Incheon National University
Feb 06/2023	Excellent Lecture Award (우수강의상 Graduate) , 2 nd semester 2022, Incheon National University
Aug 30/2022	Best Lecture Award (최우수강의상 Undergraduate) , 1 st semester 2022, Incheon National University
Sep 07/2021	Excellent Lecture Award (우수강의상 Undergraduate) , 1 st semester 2021, Incheon National University
4/2008	Pathology young investigator award (1st rank, Excellence in basic research) , Dept. of Pathology, Johns Hopkins, School of Medicine
2/2001	Seoul National University Alumni Award (서울대학교 총동창회장상) , Seoul National University, Seoul, Korea

PROFESSIONAL SERVICE:

4/2019 – present	인천광역시 투자유치위원회 자문위원
1/2021 – 12/2021	생화학분자생물학회 소식지편집위원회 편집위원

PUBLICATIONS:

1. Shannonhouse J, Son H, Zhang Y, Kim E, Han D, Gomez R, **Park JT**, and Kim YS (Aug 1, 2025) In Vivo Calcium Imaging of Neuronal Ensembles in Networks of Primary Sensory Neurons in Intact Trigeminal Ganglia. **J Vis Exp** <https://doi.org/10.3791/68284>
2. Shannonhouse J, Zhang Y, Son H, Kim E, Han D, **Park JT**, Kim YS (Aug 14, 2025) Lessons from the use of in vivo cellular calcium imaging in primary sensory neurons and spinal cord. **Neuroscientist** <https://doi.org/10.1177/10738584251360724>
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. Kim E, Son H, Zhang Y, Shannonhouse J, Gomez R, Han D, **Park JT**, Kim ST, Amarista Fe, Perez D, Ellis E, and Kim YS (May 31, 2025) BoNT injection in TMJ alleviates TMD pain in FMO-induced TMD mouse model. **Journal of Neuroscience** 2025 Aug 4:e2035242025
5. Zhang Y, Shannonhouse J, Son H, **Park JT**, Kim YS (May 31, 2025) Regulatory Action of Calcium and Calcium Channels in Pain Pathways. **Int J Biol Sci** 21(8):3726-3739
6. **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** 207: 112800
7. **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
8. **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** 2025; 0:e70049
9. **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
10. **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
11. **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
12. **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
13. **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** 29:1025–1033
14. **Yoon JH***, Kim YH*, Jeong EY‡, Lee YH‡, Byun Y, Shin SS†, **Park JT†** (Sep 14, 2024) Senescence Rejuvenation through Reduction in Mitochondrial Reactive Oxygen Species Generation by *Polygonum cuspidatum* Extract: In Vitro Evidence. (*: co-first author, ‡: co-second author, †: co-corresponding author) **Antioxidants** 13(9): 1110
15. **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
16. **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
17. **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
18. Lim JS, Jeon EJ, Go HS, Kim H, Kim KY, Nguyen T, Lee DY, Kim KS, Pietrocola F, Hong SH, Lee SE, Kim K, Park TS, Choi D, Jeong Y, Park Jong, Kim HS, Min J, Kim YS, **Park JT**, Cho J, Lee G, Lee JH, Choy HE, Park

- SC, Lee C, Rhee JH, Serrano M, Cho KA (Jan 02, 2024) Mucosal TLR5 activation controls healthspan and longevity. **Nature Communications** 15(1):46.
19. **Lee YH**, Kuk MU, So MK, Park HJ, Song ES, Park JH, Yoon JH, Kwon HW[†], Choi J[†], **Park JT[†]** (Jan 01, 2024) *Polyporus ulleungus* mycelia cultured in MEB medium produce metabolites with anticancer property. (†: co-corresponding author) **Journal of Cancer** 15(2):309-316
 20. **Song ES**, So MK, Park HJ, Lee H, Lee YH, Kuk MU, Park JH, Kwon HW, Choi J[†], **Park JT[†]** (Jul 09, 2023) Chemical screening identifies the anticancer properties of *Polyporus tuberaster*. (†: co-corresponding author) **Journal of Cancer** 14(11): 2075-2084
 21. **Lee YH***, **Kuk MU***, So MK, Song ES, Lee H, Ahn S, Kwon HW[†], **Park JT[†]**, Park SC[†] (Apr 15, 2023) Targeting Mitochondrial Oxidative Stress as a Strategy to Treat Aging and Age-Related Diseases. (*: co-first author, †: co-corresponding author) **Antioxidants** 12:934
 22. **Lee H**, Song ES, Lee YH, Park JY, Kuk MU, Kwon HW, Roh H[†], **Park JT[†]** (Apr 02, 2023) A novel hybrid promoter capable of continuously producing proteins in high yield. (†: co-corresponding author) **Biochemical and Biophysical Research Communications** 650: 103-108
 23. **Kuk MU**, Lee H, Song ES, Lee YH, Park JY, Jeong S, Kwon HW, Byun Y[†], Park SC[†], **Park JT[†]** (Mar 01, 2023) Functional restoration of lysosomes and mitochondria through modulation of AKT activity ameliorates senescence. (†: co-corresponding author) **Experimental Gerontology** 173:112091
 24. **Lee YH**, Kim M, Park HJ, Park JY, Song ES, Lee H, Ko G, Ahn S, Kwon HW, Byun Y, Kim C[†], Choi J[†], **Park JT[†]** (Jan 01, 2023) Chemical screening identifies the anticancer properties of *Polyporus parvovarius*. (†: co-corresponding author) **Journal of Cancer** 14(1):50-60
 25. **Park JY**, Lee H, Song ES, Lee YH, Kuk MU, Ko G, Byun YJ[†], Kwon HW[†], **Park JT[†]** (Dec 31, 2022) Improvement of Tol2 transposon system by modification of Tol2 transposase. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** 27(6): 987-994
 26. Choi S, Lee H, Lee M, **Park JT**, Heynderickx PM, Wu D, Depuydt S, Asselman J, Janssen C, Häder DP, Han T, Park J (Nov 05, 2022) A Ten-Minute Bioassay to Test Metal Toxicity with the Freshwater Flagellate *Euglena agilis*. **Biology** 11(11):1618
 27. **Kuk MU***, Ga YJ*, Kim YJ, Park JY, Song ES, Lee H, Lee YH, Ko G, Kim JK, Yeh JY, Kwon HW[†], Byun YJ[†], **Park JT[†]** (Nov 03, 2022) Metabolic reprogramming as a novel therapeutic target for Cocksackievirus B3. (*: co-first author, †: co-corresponding author) **Animal Cells and Systems** 26(6) 275–28
 28. **Park JY**, Lee H, Song ES, Lee YH, Kuk MU, Ko G, Kwon HW[†], Byun YJ[†], **Park JT[†]** (Dec 01, 2022) Restoration of lysosomal and mitochondrial function through p38 MAPK inhibition ameliorates senescence. (†: co-corresponding author) **Rejuvenation Research** 25(6):291-299
 29. Yang EJ, Park JH, Cho HJ, Hwang J, Woo S, Park CH, Kim SY, **Park JT**, Park SC, Hwang D, Lee Y (Jul 14, 2022) Co-inhibition of ATM and ROCK synergistically improves cell proliferation in replicative senescence by activating FOXM1 and E2F1. **Commun Biol.** 2022 5(1):702
 30. **Lee YH**, Park JY, Song ES, Lee H, Kuk MU, Joo JH, Roh H[†], **Park JT[†]** (Jun 25, 2022) Improvement of Sleeping Beauty transposon system enabling efficient and stable protein production. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** 27(3): 353-360
 31. **Kuk MU**, Park JY, Song ES, Lee H, Lee YH, Joo JH, Kwon HW[†], **Park JT[†]** (May 24, 2022) Bacterial artificial chromosome-based protein expression platform using the Tol2 transposon system. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** 27(3): 344-352
 32. **Park JT**, Oh S (Mar 03, 2022) The translational landscape as regulated by the RNA helicase DDX3. **BMB Reports** 55(3): 125-135
 33. **Lee YH**, Choi D, Jang G, Park JY, Song ES, Lee H, Kuk MU, Joo JH, Ahn SK, Byun Y[†], **Park JT[†]** (Jan 30, 2022) Targeting regulation of ATP synthase 5 alpha/beta dimerization alleviates senescence. (†: co-corresponding author) **Aging** 14(2):678-707
 34. **Kuk MU**, Lee YH, Kim JW, Hwang SY, Park JY, Song ES, Kwon HW[†], Oh S[†], **Park JT[†]** (Dec 31, 2021) Rapid and Efficient BAC Recombineering: Gain & Loss Screening System. (†: co-corresponding author) **Biotechnology and Bioprocess Engineering** 26(6): 1023-1033
 35. **Lee YH**, Park JY, Lee H, Song ES, Kuk MU, Joo JH, Oh S, Kwon HW[†], **Park JT[†]**, Park SC[†] (Nov 03, 2021) Targeting mitochondrial metabolism as a strategy to treat senescence (†: co-corresponding author) **Cells** 10(11): 3003

36. **Kim JW**, Lee YH, Kuk MU, Hwang SY, Kwon HW[†], **Park JT**[†] (Oct 31, 2021) Cre/Lox-based RMCE for site-specific integration in CHO cells. ([†]: co-corresponding author) **Biotechnology and Bioprocess Engineering** 26(5): 795-803
37. **Hwang SY**, Lee YH, Kuk MU, Kim JW, Oh S, **Park JT** (Oct 31, 2021) Improvement of Tol2 transposon system enabling efficient protein production in CHO cells. **Biotechnology and Bioprocess Engineering** 26(5): 767-775
38. Lee HJ, Stephen Depuydt, Shin KS, Choi SY, Kim GH, Lee YH, **Park JT**, Han TJ, Park JH (Jul 02, 2021), Assessment of various toxicity endpoints in duckweed (*Lemna minor*) at the physiological, biochemical, and molecular levels as a measure of diuron stress. **Biology** 10(7):684
39. Park JH, Ryu SJ, Kim BJ, Cho HJ, Park CH, Choi HJC, Jang EJ, Yang EJ, Hwang JA, Woo SH, Lee JH, Park JH, Choi KM, Kwon YY, Lee CK, **Park JT**, Cho SC, Lee YI, Lee SB, Han JA, Cho KA, Kim MS, Hwang D, Lee YS, Park SC (Jun 29, 2021) Disruption of nucleocytoplasmic trafficking as a cellular senescence driver. **Experimental & Molecular Medicine** 53:1092-1108
40. **Kuk MU**, Lee YH, Kim JW, Hwang SY, **Park JT**[†], Park SC[†] (Feb 17, 2021) Potential Treatment of Lysosomal Storage Disease Through Modulation of the Mitochondrial–Lysosomal Axis. ([†]: co-corresponding author) **Cells** 10(2): 420
41. Song N, Jeong DY, Tu TH, Park BS, Yang HR, Kim YJ, Kim JK, **Park JT**, Yeh JY, Yang S, Kim JG (Feb 04, 2021) Adiponectin Controls Nutrient Availability in Hypothalamic Astrocytes. **Int J Mol Sci.** 22(4):1587
42. Park JH, Lee HJ, Choi SY, Pandey LK, Depuydt S, Saeger JD, **Park JT**, Han TJ (Jan 04, 2021) Extracts of red seaweed, *Pyropia yezoensis*, inhibit melanogenesis but stimulate collagen synthesis. **Journal of Applied Phycology** 33:653–662
43. **Hwang SY**, Kuk MU, Kim JW, Lee YH, Lee YS, Choy HE, Park SC, **Park JT** (Nov 01, 2020) ATM mediated-p53 signaling pathway forms a novel axis for senescence control. **Mitochondrion** 55:54-63
44. Lim JS, Lee DY, Kim HS, Park SC, **Park JT**, Kim HS, Oh WK, Cho KA (Dec 01, 2020) Identification of a novel senomorphic agent, avenanthramide C, via the suppression of the senescence-associated secretory phenotype. **Mech Ageing Dev.** 192:111355
45. Cho HJ, Yang EJ, **Park JT**, Kim JR, Kim EC, Jung KJ, Park SC, Lee YS (May 07, 2020) Identification of SYK inhibitor, R406 as a novel senolytic agent. **Aging** 12(9):8221-8240
46. **Kim JW**^{*}, Kuk MU^{*}, Choi HE, Park SC[†], **Park JT**[†] (Oct 15, 2019) Mitochondrial metabolic reprogramming via BRAF inhibition ameliorates senescence. (^{*}: co-first author, [†]: co-corresponding author) **Experimental Gerontology** 126: 110691
47. Oh S, **Park JT** (May 10, 2019) Zebrafish model of KRAS-initiated pancreatic endocrine tumor. **Animal Cells and Systems.** 23(3):209-218
48. **Kuk MU**^{*}, **Kim JW**^{*}, Lee YS, Cho KA, **Park JT**[†], Park SC[†] (Mar 31, 2019) Alleviation of senescence via ATM inhibition in accelerated aging models. (^{*}: co-first author, [†]: co-corresponding author) **Molecules and Cells** 42(3):210-217
49. Kang SU, **Park JT** (Feb 01, 2019) Functional evaluation of alternative splicing in the FAM190A gene. **Genes & Genomics** 41(2):193-199
50. **Park JT**, Lee YS, Park SC (Nov 25, 2018) Quantification of Autophagy During Senescence. **Methods Mol Biol.** 1896:149-157
51. **Park JT**, Leach SD (Oct 08, 2018) Zebrafish model of KRAS-initiated pancreatic cancer. **Animal Cells and Systems** 22(6): 353–359
52. **Park JT**, Lee YS, Cho KA, Park SC (Nov 01, 2018) Adjustment of the lysosomal-mitochondrial axis for control of cellular senescence. **Ageing Research Reviews** 47:176-182
53. **Park JT**, Kang HT, Park CH, Lee YS, Cho KA, Park SC (Jun 01, 2018) A crucial role of ROCK for alleviation of senescence-associated phenotype. **Experimental Gerontology** 106:8-15
54. Kang HT^{*}, **Park JT**^{*†}, Choi K^{*}, Choi HJ, Jung CW, Lee YS[†], ParkSC[†] (Mar 27, 2017). Chemical screening identifies ATM as a target for alleviating senescence (**As co-first and co-corresponding author**) **Nature Chemical Biology** 13:616-623.
55. Kang HT^{*}, **Park JT**^{*†}, Choi K, Choi HJ, Jung CW, Kim GR, Lee YS[†], ParkSC[†] (Jun 01, 2017). Chemical screening identifies ROCK as a target for recovering mitochondrial function in Hutchinson-Gilford progeria syndrome (**As co-first and co-corresponding author**) **Aging Cell** 16(3):541-550.
56. Jung JG, Shih IM, **Park JT**, Gerry E, Kim TH, Ayhan A, Handschuh K, Davidson B, Nickles Fader A, Selleri L, Wang TL (Nov 01, 2016). Ovarian cancer chemoresistance relies on the stem cell reprogramming factor PBX1. **Cancer Res.** 76(21):6351-6361.

57. **Park JT**, Johnson N, Liu S, Levesque M, Wang YJ, Ho H, Huso D, Maitra A, Parsons MJ, Prescott JD, Leach SD (May 21, 2015). Differential in vivo tumorigenicity of diverse KRAS mutations in vertebrate pancreas: A comprehensive survey. **Oncogene** 34(21): 2801–2806.
58. Kim MS, Jo S, **Park JT**, Shin HY, Kim SS, Gurel O, Park SC (Aug 31, 2015). Method To Purify and Analyze Heterogeneous Senescent Cell Populations Using a Microfluidic Filter with Uniform Fluidic Profile. **Anal Chem.** 87(19):9584-8.
59. Wang YJ, **Park JT**, Parsons MJ, Leach SD (Jun 01, 2015). Fate mapping of ptf1a-expressing cells during pancreatic organogenesis and regeneration in zebrafish. **Dev Dyn.** 244(6):724-35
60. **Park JT**, Leach SD. (Dec 31, 2013) TAILOR (Transgene Activation and Inactivation with LOx and Rox). **PLOS ONE** 8(12): e85218
61. Pashos E, **Park JT**, Leach S, Fisher S (Sep 15, 2013). Distinct enhancers of ptf1a mediate specification and expansion of ventral pancreas in zebrafish. **Dev Biol.** 381(2):471-481
62. Choi SM, Kim Y, Shim JS, **Park JT**, Wang RH, Leach SD, Liu JO, Deng CX, Ye Z, Jang YY (Jun 01, 2013). Efficient drug screening and gene correction for treating liver disease using patient-specific stem cells. **Hepatology.** 57(6): 2458-2468
63. **Park JT**, Chen X, Trope CG, Davidson B, Shih IeM, Wang TL (Sep 01, 2010). Notch3 Overexpression Is Related to the Recurrence of Ovarian Cancer and Confers Resistance to Carboplatin. **Am J Pathol.** 177(3):1087-94
64. **Park JT**, Shih IeM, Wang TL (Nov 01, 2008). Identification of Pbx1, a potential oncogene, as a Notch3 target gene in ovarian cancer. **Cancer Res** 68(21): 8852-8860
65. Choi JH, **Park JT**, Davidson B, Morin PJ, Shih IeM, Wang TL (Jul 15, 2008). Jagged-1 and Notch3 juxtacrine loop regulates ovarian tumor growth and adhesion. **Cancer Res.** 68(14):5716-23.
66. **Park JT**, Li M, Nakayama K, Mao TL, Davidson B, Zhang Z, Kurman RJ, Eberhart CG, Shih IeM, Wang TL (Jun 15, 2006). Notch3 gene amplification in ovarian cancer. **Cancer Res.** 66(12):6312-8
67. Choi KS, **Park JT**, Dumler JS (Dec 01, 2005) Anaplasma phagocytophilum delay of neutrophil apoptosis through the p38 mitogen-activated protein kinase signal pathway. **Infect Immun.** 73(12):8209-18.
68. **Park JT**, Jung YE, Ahn TI (Dec 01, 2002) Changes in profiles of major proteins in encysting Acanthamoeba castellanii **Korean J. Biol. Sci.** 6: 341-347

International Patent (Registration):

1. **Park JT**, Lee KJ, Lim JS, Lim HT, Heo YJ, Lee JS, Min HS (Nov 05, 2020), Process for reducing undesirable by-product in cell culture, AU2017349343B2 (등록)
2. Choi K, **Park JT**, Kang HT (Apr 24, 2018), Composition for reducing senescence of cell or subject comprising smurf2 inhibitor and use thereof, **US9951336B2** (등록)
3. **Park JT**, Kang HT, Jung CW, Choi K, Park SC, Choi HJ (Apr 17, 2018), COMPOSITION FOR REDUCING CELL SENESCENCE COMPRISING RHO-KINASE INHIBITOR AND USE THEREOF, **US9943525B2** (등록)
4. Jung CW, **Park JT**, Kang HT, Park SC, Choi HJ, Choi K (Sep 26, 2017), COMPOSITION INCLUDING ATM INHIBITOR FOR REDUCING CELLULAR SENESCENCE AND USE OF THE COMPOSITION, **US9770451B2** (등록)
5. Keum JW, **Park JT**, Jung CW, Park SC, Lee YS (Sep 19, 2017), COMPOSITION FOR REDUCING SENESCENCE OF CELL OR SUBJECT INCLUDING BRAF INHIBITOR AND USE THEREOF, **US9763923B2** (등록)

Korean Patent (Registration):

1. **이윤행, 박지윤, 한태준, 박지혜, 이호준, 박준태** (Sep 24, 2025), 민물고기 세포의 증식 특성을 이용한 생태독성 평가방법, 10-2865566 (등록)
2. **박지윤, 박준태** (Jun 24, 2025), 신규한 트랜스포사제 및 이를 이용한 트랜스포존 시스템, 10-2825196 (등록)
3. **이하늘, 권형욱, 변영주, 박준태** (Dec 27, 2024), 하이브리드 프로모터, 10-2749407 (등록)
4. **이윤행, 최재혁, 김창무, 김민경, 안초롱, 유영현, 지원재, 박준태** (Oct 16, 2024), 항암 활성을 가지는 폴리포르스 파보바리우스(Polyporus parvovarius) 균주, 10-2720148 (등록)
5. **국명욱, 박준태** (Apr 04, 2022), 박테리아 인공 염색체 재조합 스크리닝 방법, 10-2384173 (등록)
6. **이윤행, 박준태** (Feb 16, 2022), 개선된 슬리핑 뷰티 트랜스포존 시스템 및 이를 이용한 유전자 전위 방법, 10-2365768 (등록)

7. 황수영, 박준태 (Feb 09, 2022), CHO 세포에 전이 유전자를 통합하기 위한 방법, 10-2362878 (등록)
8. 최고봉, 박준태, 강현태 (Feb 03, 2022) Smurf2 의 저해제를 포함하는 세포 또는 개체의 노화를 감소시키기 위한 조성물 및 그의 용도, 10-2360028 (등록)
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10. 김재원, 박준태 (Nov 30, 2021), Fer1L4 유전자에 부위-특이적 통합된 RMCE 랜딩 패드를 포함하는 CHO 세포, 10-2335242 (등록)
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POSTER PRESENTATION:

1. **Lee YH, Park JT** (2025) Elucidating the mechanism of improving aging through selective death of senescent cells, 제 31 차 아시아 · 오세아니아 생화학분자생물학회 (FAOBMB 2025), May 20 ~ May 23, 2025, 생화학분자생물학회
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8. **Kuk MU, Park JT** (2024) EXPLORING REJUVENATION EFFECTS THROUGH THE APPLICATION OF SAUCHINONE AS AN NF-KB INHIBITOR, 16th International Symposium on Natural Sciences, October 10th ~ October 11th, 2024, Research Institute of Basic Sciences, Incheon National University
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25. **Kim DY, Park JT** (2024) Synergistic effect of p38 MAPK and BRAF inhibitor at senescence amelioration (Synergy effect of SB590885 and SB203580), International Conference 2024, May 28 ~ May 31, 2024, 생화학분자생물학회
26. **So B, Park JT** (2024) Identification of anti-senescence mechanism of isoshaftoside targeting Rac2 protein, International Conference 2024, May 28 ~ May 31, 2024, 생화학분자생물학회
27. **Song ES, Park JT** (2023) Discovery of new endogenous promoters in CHO cells through promoter trapping, 15th International Symposium on Natural Sciences, October 30th ~ October 31th, 2023, Research Institute of Basic Sciences, Incheon National University
28. **Lee YH, Park JT** (2023) Identification of senescence rejuvenation and metabolic reprogramming by alpha-enolase regulation. 15th International Symposium on Natural Sciences, October 30th ~ October 31th, 2023, Research Institute of Basic Sciences, INU
29. **Kuk MU, Park JT** (2023) The ROSA26 BAC endogenous promoter enhances the synthesis of recombinant proteins, 15th International Symposium on Natural Sciences, October 30th~ 31th, 2023, Research Institute of Basic Sciences, INU
30. **Kuk MU, Park JT** (2023) Minimization of human β -interferon MARs in recombinant protein production systems, 15th International Symposium on Natural Sciences, October 30th~ 31th, 2023, Research Institute of Basic Sciences, INU
31. **Kuk MU, Park JT** (2023) Mitochondrial dysfunction caused by the 3C protease of coxsackievirus B3 in HeLa cell, 15th International Symposium on Natural Sciences, October 30th~ 31th, 2023, Research Institute of Basic Sciences, INU
32. **Lee YH, Kuk MU, Park J, Ahn SK, Park JT** (2023) Identification of senescence rejuvenation and metabolic reprogramming by alpha-enolase regulation. The 40th Spring Conference of the Korean Society for Gerontology & Korea-Japan Joint Symposium, July 13 ~ July 15, 2023, The Korean Society For Gerontology.
33. **Lee YH, Ahn SK, Park JT** (2023) Identification of senescence rejuvenation and metabolic reprogramming by alpha-enolase regulation. International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회
34. **Kuk MU, Park JT** (2023) The ROSA26 BAC Endogenous Promoter: A Novel Strategy for Optimizing Recombinant Protein Production Efficiency, International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회

35. **Kuk MU, Park JT** (2023) Harnessing iMARs for Enhanced Recombinant Protein Expression in Biopharmaceutical and Gene Therapy Applications, International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회
36. **Kuk MU, Park JT** (2023) Exploiting CVB3 3C Protease Mutants for Therapeutic Intervention of Coxsackievirus B3 Infection, International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회
37. **Song ES, Kang KY, Park JT** (2023) Natural substances with anticancer activity discovered in fungal extracts, International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회
38. **Song ES, Kang KY, Park JT** (2023) Increased Protein Productivity Through the Use of the RMCE (Recombinase-Mediated Cassette Exchange) System and P2A, International Conference 2023, May 10 ~ May 13, 2023, 생화학분자생물학회
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40. **Lee YH, Park JT** (2022) Development of cell lines of freshwater fish species and evaluation of ecotoxicity, 제 18 회 대한 독성 유전·단백체 학회 국제 학술대회, Oct 25th~27th 2022, 대한독성유전·단백체학회
41. **Ko G, Park JT** (2022) Efficient expression of recombinant protein mammalian system using S/MAR elements. 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
42. **Song ES, Park JT** (2022) Natural substances with anticancer properties discovered in *Polyporus tuberaster* mycelium extract, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
43. **Song ES, Park JT** (2022) Modification of recombinase-mediated cassette exchange (RMCE) system to increase protein productivity, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
44. **Lee H, Park JT** (2022) Discovery of new signal peptides through gene trapping, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
45. **Lee H, Park JT** (2022) Finding effective genomic hot spots through gene trapping, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
46. **Lee H, Park JT** (2022) High expression level protein production through dual promoter construction, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
47. **Park JY, Park JT** (2022) Improvement of Tol2 transposase system using H2B enabling efficient protein production in CHO cells, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
48. **Park JY, Park JT** (2022) Restoration of lysosomal and mitochondrial function through MAPK inhibition ameliorates senescence, 14th International Symposium on Natural Sciences, October 6th ~ October 7th, 2022, Research Institute of Basic Sciences, Incheon National University
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59. **JOO JH, Park JT** (2021) Tol2 transposase system with ELS mutation to increase protein productivity, 2021 년도 한국분자·세포생물학회 추계학술대회, NOV 03th~05th 2021, 한국분자·세포생물학회
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61. **JOO JH, Park JT** (2021) Tol2 transposase system with ELS mutation to increase protein productivity, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
62. **Kuk MU, Park JT** (2021) BAC based antibody expression platform using Tol2 transposon in CHO cells, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
63. **Kuk MU, Park JT** (2021) Metabolic reprogramming from oxidative phosphorylation to glycolysis is induced by Cocksackievirus B3 in Hela cells, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
64. **Kuk MU, Park JT** (2021) Mitochondrial metabolic reprogramming via AKT inhibition ameliorates senescence, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
65. **Kuk MU, Park JT** (2021) Superior secretion gene trapping in Chinese hamster ovary cell line, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
66. **Lee H, Park JT** (2021) Finding effective genomic hot spots through gene trapping, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
67. **Lee H, Park JT** (2021) Inducing a Protein with high expression level through the construction of a new hybrid promoter, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
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69. **Park JY, Park JT** (2021) Improved Tol2 transposase system with increased transposase number enabling efficient protein production in CHO cells, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
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71. **Lee YH, Park JT** (2021) Discovery of anticancer substances in fungal extracts through high throughput screening, 13th International Symposium on Natural Sciences, October 6th 2021, Research Institute of Basic Sciences, Incheon National University
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78. **Lee YH, Choi D, Byun Y, Park JT** (2021) Chemical screening identifies the regulation of mitochondrial cristae formation as a target for alleviating senescence, 2021 년도 생화학분자생물학회 춘계 국제학술대회, MAY 25th~27th 2021, 생화학분자생물학회
79. **Lee YH, Park JT** (2020) Improved productivity of Sleeping Beauty transposon in CHO cell, 12th International Symposium on Natural Sciences, October 9th 2020, Research Institute of Basic Sciences, Incheon National University
80. **Hwang SY, Kuk MU, Kim JW, Park JT** (2020) ATM mediated-p53 signaling pathway forms a novel axis for senescence control, 12th International Symposium on Natural Sciences, October 9th 2020, Research Institute of Basic Sciences, Incheon National University
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83. **Kim JW, Park JT** (2020) Cre-Lox based RMCE for efficient gene-of-interest exchange in CHO cells, 12th International Symposium on Natural Sciences, October 9th 2020, Research Institute of Basic Sciences, Incheon National University
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96. **Kim JW, Park JT** (2019) Next Generation Vector Platform for Therapeutic Protein Production; RMCE-mediated site specific integration, 11th International Symposium on Natural Sciences, October 9th~11th 2019, Research Institute of Basic Sciences, Incheon National University
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