

Curriculum Vitae

이 윤 행 (Yun Haeng Lee) Ph. D.

직위: Postdoctoral Researcher

소속: 인천대학교 생명과학과 단백질공학실험실

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Education

2024. 02. Incheon National University, Department of Life Science, Ph.D.
2022. 02. Incheon National University, Department of Life Science, MS
2020. 02. Incheon National University, 분자의생명전공, BS

Career

2024. 03 - present **Postdoctoral researcher**, Incheon National University, Department of Life Science, Protein Engineering Lab
2022. 03 – 2024. 02 **Ph.D. course**, Incheon National University, Department of Life Science, Protein Engineering Lab
2020. 03 – 2022. 02 **M.S course**, Incheon National University, Department of Life Science, Protein Engineering Lab
2020. 03 – 2020. 12 Teaching experiment classes at Incheon National University
2015. 11 – 2017. 08 **R.O.K. Army**, Korea (대한민국 육군 병장 만기 전역)
2014. 03 – 2020. 02 **Undergraduate course**, Incheon National University, Life Science

Honors and Awards

2024. 10 Best Poster Award, 16th International Symposium on Natural Sciences
2023. 05 Travel grant, International Conference 2023 (KSBMB)
2022. 10 Best Poster Award, 14th International Symposium on Natural Sciences
2022. 05 Travel grant, International Conference 2022 (KSBMB)
2021. 05 DAEWOONG Best Research Award, International Conference 2021 (KSBMB)
2020. 12 2020 인천대를 빛낸, 인천대 학생, Incheon National University, Incheon, Korea
2020. 10 Best Poster Award, 12th International Symposium on Natural Sciences

Publication (1st Author & Corresponding Author)

1. 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** accepted
2. 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) **Pharmaceuticals** (2025 IF:4.8) 18(9): 1254
3. **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†, Lee KY†, **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 IF:5.9) 58(10): 0:e70049
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) **Pharmaceuticals** (2025 IF:4.8) 2025 18(5): 612
5. 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** (2025 IF:3.2) 15(4), 603
6. Kuk MU*, **Lee YH***, Kim D*, Lee KS, Park JH, Yoon JH, Lee YJ, So B, Kim MS, Kwon HW, Byun Y, Lee KY†, **Park JT†** (Feb 24, 2025) Sauchinone ameliorates senescence through reducing mitochondrial ROS production. (*: these authors contributed equally to this work, †: co-corresponding author) **Antioxidants** (2025 IF:6.0) 14(3): 259
7. **Lee YH***, Jeong EY*, Kim YH*, Park JH, Yoon JH, Lee YJ, Lee SH, Nam YK, Cha SY, Park JS, Kim SY, Byun Y†, Shin SS†, **Park JT†** (Jan 29, 2025) Identification of senescence rejuvenation mechanism of *Magnolia officinalis* extract including honokiol as a core ingredient. (*: these authors contributed equally to this work, †: co-corresponding author) **Aging** (2025 IF: 3.9) 17(2): 497–523
8. **Lee YH***, Kuk MU*, Park JH*, Lee H, Lee H, So MK, Yoon JH, Lee YJ, Kim DY, So BH, Kim MS, Park J, Han T†, **Park JT†** (Sep 05, 2024) Rapid and accurate ecotoxicological assessment of heavy metals using *Cyprinus carpio cells*. (*: these authors contributed equally to this work, †: co-corresponding author) **Life** (2024 IF: 3.2) 14(9): 1119
9. **Lee YH†**, So BH†, Lee KS, Kuk MU, Park JH, Yoon JH, Lee YJ, Kim DY, Kim MS, Kwon HW, Lee KY*, Byun Y*, **Park JT*** (Sep 04, 2024) Identification of cellular anti-senescence mechanism: regulatory of *RAC2* and *LINC00294* mediated by isoschaftoside. (†: these authors contributed equally to this work, *: co-corresponding author) **Molecules** (2024 IF: 4.2) 29(17): 4182
10. **Lee YH**, Kuk MU, So MK, Park HJ, Song ES, Park J, Yoon JH, Kwon HW, Choi J, **Park JT†** (Nov 28, 2023) Discovery of anticancer activity through chemical screening of *Polyporus uilleungus*. (†: co-corresponding author) **Journal of Cancer** (2023 IF: 4.2) 15(2):309-316

11. **Lee YH***, Kuk MU*, So MK, Song ES, Lee H, Ahn SK, Kwon HW[†], **Park JT[†]**, Park SC[†] (Apr 13, 2023) Targeting Mitochondrial Oxidative Stress as a Strategy to Treat Aging and Age-related diseases. (†: co-corresponding author, *: these authors contributed equally to this work) ***Antioxidants*** (2023 IF: 7.0) 12:934
12. **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[†]** (Nov 28, 2022) Chemical screening identifies the anticancer properties of *Polyporous parvovarius*. (†: co-corresponding author) ***Journal of Cancer*** (2022 IF: 4.2) 14(1):50-60
13. **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*** (2022 IF: 3.2) 27(3): 353-360
14. **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, *: these authors contributed equally to this work) ***Aging*** (2022 IF: 5.9) 14(2):678-707
15. **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*** (2021 IF: 6.0) 10(11): 3003

1. 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
2. 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
3. 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
4. Yoon JH*, Kim YH*, Jung 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
5. Song ES, Lee YH, So MK, Kuk MU, Park J, Yoon JH, Lee YJ, Kim D, So B, Byun Y, Kwon HW†, **Park JT**† (Mar 05, 2024) Establishment of a new promoter trapping vector using 2A peptide. (†: co-corresponding author) *Biotechnology and Bioprocess Engineering* 29: 520–528
6. Song ES, So MK, Park HJ, Lee H, Lee YH, Kuk MU, Park J, Kwon HW, Choi J†, **Park JT**† (Jul 03, 2023) Chemical screening identifies the anticancer properties of *Polyporous tuberaster*. (†: co-corresponding author) *Journal of Cancer* 14(11): 2075-2084
7. Lee H, Song ES, Lee YH, Park JY, Kuk MU, Kwon HW, Roh H†, **Park JT**† (Feb 07, 2023) A novel hybrid promoter capable of continuously producing proteins in high yield. (†: co-corresponding author) *Biochemical and Biophysical Research Communications* 650: 103-108
8. 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
9. 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-corresponding author) *Animal Cells and Systems*, 26(6) 275–28
10. Park JY, Lee H, Song ES, Lee YH, Kuk MU, Ko G, Kwon HW†, Byun YJ†, **Park JT**† (Nov 15, 2022) Restoration of lysosomal and mitochondrial function through p38 MAPK inhibition ameliorates senescence. (†: co-corresponding author) *Rejuvenation Research* 25(6):291-299
11. Park JY, Lee H, Song ES, Lee YH, Kuk MU, Ko G, Byun YJ†, Kwon HW†, **Park JT**† (Dec 21, 2022) Improvement of Tol2 transposon system by modification of Tol2 transposase. (†: co-corresponding author) *Biotechnology and Bioprocess Engineering* 27(6): 987-994

12. 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
13. Kuk MU, Lee YH, Kim JW, Hwang SY, Park JY, Song ES, Kwon HW, Oh S, Park JT (Nov 21, 2021), Rapid and Efficient BAC Recombineering: Gain & Loss Screening System. ***Biotechnology and Bioprocess Engineering*** 26(6): 1023-1033
14. Kim JW, Lee YH, Kuk MU, Hwang SY, Kwon HW, **Park JT** (Nov 08, 2021) Cre/Lox-based RMCE for site-specific integration in CHO cells. ***Biotechnology and Bioprocess Engineering*** 26(5): 795-803
15. Hwang SY, Lee YH, Kuk MU, Kim JW, Oh S, **Park JT** (Nov 08, 2021) Improvement of Tol2 transposon system enabling efficient protein production in CHO cells. ***Biotechnology and Bioprocess Engineering*** 26(5): 767-775
16. Lee HJ, Stephen Depuydt, Shin KS, Choi SY, Kim GH, Lee YH, Park JT, Han TJ, Park JH (Jul 20, 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
17. 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: 420
18. Hwang SY, Kuk MU, Kim JW, Lee YH, Lee YS, Choy HE, Park SC, Park JT (Sep 17, 2020) ATM mediated-p53 signaling pathway forms a novel axis for senescence control. ***Mitochondrion*** 55:54-63

Patents (Registration)

1. **Lee YH**, Byun YJ, Choi DY, Park JT (Sep 30, 2025), **(USA)** PHARMACEUTICAL COMPOSITION FOR TREATING OR PREVENTING AGING OR AGE-RELATED DISEASES, 등록번호: US12427143B2
2. **Lee YH**, Park JT, Park JY, Han TJ, Park JH, Lee HJ (Sep 25, 2025), **(KOR)** 민물고기 세포의 증식 특성을 이용한 생태독성 평가방법. 등록번호: 제 10-2865566 호
3. **Lee YH**, Kim CM, Kim MK, Ahn CR, Yu YH, Ji WJ, Choi JH, Park JT (Oct 16, 2024), **(KOR)** 항암 활성을 가지는 폴리포르스 파보바리우스(*Polyporus parvovarius*) 균주, 등록번호: 제 10-2720148 호
4. **Lee YH**, Park JT (Feb 16, 2022), **(KOR)** 개선된 슬리핑 뷰티 트랜스포존 시스템 및 이를 이용한 유전자 전위 방법. 등록번호: 제 10-2365768 호

Patents (Application)

1. **Lee YH**, Park JH, Cha SY, Kim HY, Nham YK, Jung EY, Kim SY, Park JS, Kwon HY, 변영주, Shin SS, Park JT (Jul 31, 2025), (**KOR**) 세노몰픽 및 세놀리틱 효능을 갖는 하동작설 유래 역노화 조성물, 10-2025-0105474
2. **Lee YH**, Kim MS, Park JH, So BH, Lee HJ, Park JH, Han TJ, Park JT (Jul 25, 2025), (**KOR**) 버들붕어 세포를 이용한 독성물질의 유전독성 평가방법, 10-2025-0101173
3. **Lee YH**, So BH, Park JH, Kim MS, Lee HJ, Park JH, Han TJ, Park JT (Jul 25, 2025), (**KOR**) 민물고기 세포를 이용한 독성물질의 유전독성 평가방법, 10-2025-0101172
4. **Lee YH**, Kuk MU, Kim DY, Byun YJ, Park JT (Feb 27, 2025), (**KOR**) BRAF 억제제 및 p38 MAPK 억제제를 유효성분으로 포함하는 항노화 조성물, 출원 번호: 10-2025-0025992
5. **Lee YH**, Kwon HW, Byun YJ, Im HW, Park JT (Jan 10, 2025), (**PCT**) 옥사졸 유도체를 유효성분으로 포함하는 항노화 조성물 (KB2779), 출원 번호: PCT/KR2025/000594
6. **Lee YH**, Lee YJ, Kwon HW, Byun YJ, Kim YH, Lee SH, Cha SY, Nham YK, Jung EY, Kim SY, Park JS, Shin SS, Park JT (Jul 30, 2024), (**PCT**) 세포 노화 및 대사 기능 회복 효능을 갖는 후박나무 유래 역노화 조성물, 출원 번호: PCT/KR2024/015910
7. **Lee YH**, Byun YJ, Kwon HW, Park JT (Aug 28, 2024), (**PCT**) 옥사졸 유사체를 유효성분으로 포함하는 항노화 조성물 (KB2764), 출원번호: PCT/KR2024/012827
8. **Lee YH**, So MK, Kwon HW, Park JT (Aug 16, 2024), (**KOR**) 펩톤 및 FBS 를 포함하는 CHO 세포 배양용 DMEM 배지 조성물, 출원 번호: 10-2024-0109929
9. **Lee YH**, Kwon HW, Byun YJ, Im HW, Park JT (Aug 16, 2024), (**KOR**) 옥사졸 유도체를 유효성분으로 포함하는 항노화 조성물, 출원 번호: 10-2024-0110058
10. **Lee YH**, Kwon HW, Byun YJ, Im HW, Park JT (Aug 16, 2024), (**KOR**) 피라졸 유도체를 유효성분으로 포함하는 항노화 조성물, 출원 번호: 10-2024-0109860
11. **Lee YH**, Lee YJ, Kwon HW, Byun YJ, Kim YH, Lee SH, Cha SY, Nham YK, Jeong EY, Kim SY, Park JS, Shin SS, Park JT (Jul 30, 2024), (**KOR**) 세포 노화 및 대사 기능 회복 효능을 갖는 후박나무 유래 역노화 조성물, 출원 번호: 10-2024-0100729
12. **Lee YH**, Park JH, Kuk MU, Kim DY, So BH, Han TJ, Lee HJ, Park JH, Lee H (Jul 19, 2024), (**KOR**) 민물고기 세포의 생존능 특성을 이용한 생태독성 평가방법, 출원 번호: 10-2024-0095393
13. **Lee YH**, Park JT, So BH, Kwon HW, Byun YJ, Lee KY (Apr 29, 2024), (**KOR**) 이소사프토사이드를 유효성분으로 포함하는 항노화 조성물. 출원 번호: 10-2024-0056806
14. **Lee YH**, Kwon HW, Byun YJ, Park JT (Aug 29, 2023), (**KOR**) 옥사졸 유사체를 유효성분으로 포함하는 항노화 조성물. 출원 번호: 10-2023-0113722
15. **Lee YH**, Kuk MU, Kwon HY, Byun YJ, Park JT (Jul 29, 2022), (**KOR**) AKT 저해제를 포함하는 미토파지 활성화 방법. 출원번호: 10-2022-0095033

16. Lee YH, Byun YJ, Choi DY, Park JT (Feb 07, 2022), (**USA**) PHARMACEUTICAL COMPOSITION FOR TREATING OR PREVENTING AGING OR AGE-RELATED DISEASES, 출원번호: 17/633,576
17. Lee YH, Kim CM, Kim MK, Ahn CR, Yu YH, Ji WJ, Lim YU, Choi JH, Park JT (Feb 14, 2022), (**KOR**) 항암 활성을 가지는 폴리포루스 울릉구스 균주 출원번호: 10-2022-0018938
18. Lee YH, Byun YJ, Choi DY, Park JT (Jul 23, 2021), (**PCT**) Chemical screening identifies the regulation of mitochondrial cristae formation as a target for alleviating senescence, 출원번호: PCT/KR2021/009592
19. Lee YH, Byun YJ, Choi DY, Park JT (Feb 18, 2021), (**KOR**) 세포노화 관련 질병의 예방 또는 치료용 약학적 조성물, 출원번호: 10-2021-0022067
20. Lee YH, Park JT (DEC 07, 2020), (**PCT**) Improved productivity of Sleeping Beauty transposon in CHO cell. 출원번호: PCT/KR2020/017709

Poster Presentation

1. Park JH, **Lee YH**, Park JT (2025) ϵ -Viniferin Rejuvenates Senescence via RGS16 Regulation: In Vitro Evidence. 17th International Symposium on Natural Sciences, Oct 16 ~ Oct 17, 2024, Research Institute of Basic Sciences, INU
2. **Lee YH**, Park JT (2025) Elucidating the mechanism of improving aging through selective death of senescent cells. 17th International Symposium on Natural Sciences, Oct 16 ~ Oct 17, 2024, Research Institute of Basic Sciences, INU
3. **Lee YH**, Park JT (2025) Elucidating the mechanism of improving aging through selective death of senescent cells. *International Conference 2025*, May 20 ~ May 23, 2025, FAOBMB
4. **Lee YH**, Park JT (2024) Identifying senolytics effect of KB2779 as an anti-senescence amelioration. 16th International Symposium on Natural Sciences, Oct 10 ~ Oct 11, 2024, Research Institute of Basic Sciences, INU
5. **Lee YH**, Park JT (2024) Identifying senolytics effect of KB2779 as an anti-senescence amelioration. *International Conference 2024*, May 28 ~ May 30, 2024, KSBMB
6. **Lee YH**, Ahn SK, Park JT (2023) Identification of senescence rejuvenation and metabolic reprogramming by alpha-enolase regulation. 15th International Symposium on Natural Sciences, Oct 30 ~ Oct 31, 2023, Research Institute of Basic Sciences, INU
7. **Lee YH**, Kuk MU, Park J, Ahn SK, Park JT (2023) (**Oral presentation in EN**) 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, Jul 13 ~ Jul 15, 2023, The Korean Society For Gerontology.
8. **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, KSBMB
9. **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 25 ~ Oct 27 2022, 대한독성유전·단백체학회
10. **Lee YH**, Ahn SK, Park JT (2022) Discovery of anticancer substances in fungal extracts through high throughput screening Anticancer activities in the ethanol extracts of *Polyporus*. 14th International Symposium on Natural Sciences, Oct 6 ~ Oct 7, 2022, Research Institute of Basic Sciences, INU
11. **Lee YH**, Ahn SK, Park JT (2022) Discovery of senomorphic compounds using high-throughput screening. 14th International Symposium on Natural Sciences, Oct 6 ~ Oct 7, 2022, Research Institute of Basic Sciences, INU
12. **Lee YH**, Ahn SK, Park JT Discovery of anticancer substances in fungal extracts through high throughput screening Anticancer activities in the ethanol extracts of *Polyporus*. international Conference 2022, May 23 ~ May 26, 2022, KSBMB

13. **Lee YH**, Park JT (2021) Discovery of anticancer substances in fungal extracts through high throughput screening. 13th International Symposium on Natural Sciences, Oct 6, 2021, Research Institute of Basic Sciences, INU
14. **Lee YH**, Park JT (2021) Targeting regulation of ATP synthase 5 alpha/beta dimerization alleviates senescence. 13th International Symposium on Natural Sciences, Oct 6, 2021, Research Institute of Basic Sciences, INU
15. **Lee YH**, Park JT (2021) Improved productivity of Sleeping Beauty transposon in CHO cell. 13th International Symposium on Natural Sciences, Oct 6, 2021, Research Institute of Basic Sciences, INU
16. **Lee YH**, Park JT (2021) Improved productivity of Sleeping Beauty transposon in CHO cell. international Conference 2021, May 25 ~ May 27, 2021, KSBMB
17. **Lee YH**, Park JT (2020) Improved productivity of Sleeping Beauty transposon in CHO cell. 12th International Symposium on Natural Sciences, Oct 9, 2020, Research Institute of Basic Sciences, INU
18. **Lee YH**, Park JT (2020) Improved productivity of Sleeping Beauty transposon in CHO cell. international Conference 2020, Sep 21 ~ Sep 23, 2020, KSBMB