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EDUCATION

2003. 3 – 2008. 8 Pohang University of Science and Technology (POSTECH), Korea
Ph. D. in Developmental Genetics
Thesis title: “The role of Mind bomb-1 in the developing brain”
Advisor: Young-Yun Kong, Ph. D
1999. 3 – 2003. 2 Pohang University of Science and Technology (POSTECH), Korea
B. S. in Biology (*summa cum laude*)

RESEARCH EXPERIENCE

- 2018.10 – present Assistant Professor
Department of Biological Sciences, Korea Advanced Institute of Science and Technology (KAIST), Korea
2017. 8 – 2018. 9 Research Associate
Department of Neuroscience, Perelman School of Medicine,
University of Pennsylvania (Mentors: Dr. Hongjun Song and Dr. Guo-li Ming)
2017. 1 – 2017. 7 Research Associate
Institute of Cell Engineering, Department of Neurology,
Johns Hopkins University (Mentors: Dr. Hongjun Song and Dr. Guo-li Ming)
2010. 1 – 2016. 12 Postdoctoral Fellow,
Institute of Cell Engineering, Department of Neurology,
Johns Hopkins University (Mentors: Dr. Hongjun Song and Dr. Guo-li Ming)
2008. 9. -2009. 12 Postdoctoral Fellow, Seoul National University, Korea
(Mentor: Dr. Young-Yun Kong)

HONORS AND AWARDS

- 2021 POSCO Science Fellowship, POSCO TJ Park Foundation, Korea
- 2019 SUHF Young Investigator Fellowship, Suh Kyungbae Foundation, Korea
- 2017 AKN Postdoctoral Award, Association of Korean Neuroscientists
- 2015 NARSAD Young Investigator Award, Brain and Behavior Research Foundation
- 2015 Postdoctoral Fellowship, Maryland Stem Cell Research Foundation
- 2010 Long-term Postdoctoral Fellowship, Human Frontier Science Program
- 2010 Postdoctoral Fellowship, Maryland Stem Cell Research Foundation
(Declined due to a conflict with HFSP fellowship)
- 2008 Excellent Thesis Award, Korean Society for Molecular and Cellular Biology
- 2008 The Best Doctoral Thesis Award, BK21 Division of Molecular and Life Sciences,
Pohang University of Science and Technology, Korea

SELECTED PUBLICATIONS

1. Koo, B., Kumar, A., Hwang, H., Park, M., Lee, S.M., Boo, S.H., Lee, K.H., Moon, J.H., Yang, J., Park, C.W., Lee, S., Jo, H.J., Kim, W.I., Cho, E., Lee, H., Lee, C.W., Woo, J.S., Yoon, J.H., Kim, Y.K., **Yoon, K.J.** The m⁶A reader YTHDF2 regulates mRNA transport and axon outgrowth in developing neurons. **Nature Communications** (2026) (accepted)
2. Choi, J.H., Moon, J., Oh, Y., Klompstra, T.M., Kim, Y., Baek, G., Kwak, Y., Kim, Y., Lee, S., Park, S., Ha, J., Kwon, O., Choi, Y.K., Kim, J.H., Lee, J.H., Park, J., Kim, J.K., Woo, D.H., **Yoon, K.J.***, Koo, B.K.* , Lee, H.* Universal conditional knockout approach to multiple species, from fish to human induced pluripotent stem cells. **Nucleic Acids Research** 54 (9) (2026) (*co-corresponding authors)
3. Park, J., Qiu, M., Cho, E.J., Seo, S., Moon, J.H., Kim, M., Mun, H., Yun, H., Park, H., Lim, A., Kang, Y., Oh, J.W., Youk, H., Kim, S.H., Seo, Y., Kwon, S.M., Sung, K.S., Oh, H.J., Cho, K.R., Yoon, K., Kim, N.S.*, Jang, S.J.*, Kim, K.H.*, **Yoon, K.J.*** Patient-derived organoids predict personalized drug response and reveal alternative therapeutic options in glioblastoma. **Cell Reports Medicine** (2026) (*co-corresponding authors)
4. Yoon, J.G., Jang, H., Lee, S., Jang, S.S., Park, S., Cho, J., Kim, M., Han, J., Yun, H., Kim, M.J., Kim, S.Y., Kim, W.J., Cho, A., Lee, J.S., Choi, M., Fernandez-Jaen, A., Silva, S., Uribe-San-Martín, R., Cantillano, C., Miyake, N., Lim, B.C., Ko, J.M., Kim, K.J., **Yoon, K.J.***, Chae, J.H*. Contribution of rare coding variants to microcephaly in individuals with neurodevelopmental disorders. **Genome Medicine** 17, 86 (2025) (*co-corresponding authors)
5. Kim, M.Y., Kim, M.J., Lee, C., Lee, J., Kim, S.S., Hong, S., Kim, H.T., Seo, J., **Yoon, K.J.***, Han, S.* Trametinib activates endogenous neurogenesis and recovers neuropathology in a model of Alzheimer's disease. **Experimental & Molecular Medicine** 55, 2177–2189 (2023) (*co-corresponding authors)
6. Kim, N.S., Ringeling, F.R., Zhou, Y., Nguyen, H.N., Temme, S.J., Lin, Y.T., Eacker, S., Dawson, V.L., Dawson, T.M., Xiao, B., Hsu, K.S., Canzar, S, Li, W, Worley, P, Christian, K. M., **Yoon, K.J.***, Song, H., Ming, G.L*. CYFIP1 dosages exhibit divergent behavioral impact via diametric regulation of NMDAR complex translation in mouse models of psychiatric disorders. **Biological Psychiatry** (2022) (*co-corresponding authors)
7. **Yoon, K.J.***, Ringeling, F.R.*, Vissers, C.*, Jacob, F., Pokrass, M., Jimenez-Cyrus, D., Su, Y., Kim, N.S., Zhu, Y., Zheng, L., Kim, S., Wang, X., Hyde, T.M., Weinberger, D.R., Jin, P., Zhuang, X., Regot, S., Regot, S., Canzar, S., He, C., Ming, G.L., Song, H. Temporal Control of Mammalian Cortical Neurogenesis by m⁶A mRNA Methylation. **Cell** 171, 1–13 (2017) (*equal contribution)
8. **Yoon, K.J.**, Song, G., Qian, X., Pan, J., Rho, H.S., Kim, N.S., Habela, C., Zheng, L., Jacob, F., Zhang, F., Lee, E.M., Huang, W.K., Ringeling, F.R., Vissers, C., Li, C., Yuan, L., Kang, K., Kim, S., Yeo, J., Cheng, Y., Liu, S., Wen, Z., Qin, C.F., Wu, Q., Christian, K.M., Tang, H., Jin, P., Xu, Z., Qian, J., Zhu, H., Song, H., Ming, G.L. Zika-virus-encoded NS2A disrupts mammalian cortical neurogenesis by degrading adherens junction proteins. **Cell Stem Cell** 21(3), 349-358 (2017)
9. **Yoon, K.J.**, Nguyen, H.N., Ursini, G, Zhang, F, Kim, N.S., Wen, Z., Makri, G., Nauen, D., Shin, J.H., Park, Y., Chung, R., Pekle, E., Zhang, C., Towe, M., Lee, Y., Rujescu, D., St. Clair, D., Kleinman, J.E., Hyde, T.M., Christian, K.M., Rapoport, J.L., Weinberger, D.R., Song, H., Ming, G.L. Modeling a genetic risk for schizophrenia in iPSCs and mice reveals neural stem cell deficits associated with adherens junctions and polarity. **Cell Stem Cell** 15(1), 79-91 (2014)
10. **Yoon, K.J.**, Koo, B.K., Im, S.K., Jeong, H.W., Ghim, J., Kwon, M.C., Moon, J.S., Miyata, T., and Kong, Y.Y. Mind bomb 1-expressing intermediate progenitors generate notch signaling to maintain radial glial cells. **Neuron** 58, 519-531 (2008)

FULL PUBLICATION LIST

1. Koo, B., Kumar, A., Hwang, H., Park, M., Lee, S.M., Boo, S.H., Lee, K.H., Moon, J.H., Yang, J., Park, C.W., Lee, S., Jo, H.J., Kim, W.I., Cho, E., Lee, H., Lee, C.W., Woo, J.S., Yoon, J.H., Kim, Y.K., **Yoon, K.J.** The m⁶A reader YTHDF2 regulates mRNA transport and axon outgrowth in developing neurons. **Nature Communications** (2026) (accepted)
2. Choi, J.H., Moon, J., Oh, Y., Klompstra, T.M., Kim, Y., Baek, G., Kwak, Y., Kim, Y., Lee, S., Park, S., Ha, J., Kwon, O., Choi, Y.K., Kim, J.H., Lee, J.H., Park, J., Kim, J.K., Woo, D.H., Yoon, K.J.*, Koo, B.K.*, Lee, H.* Universal conditional knockout approach to multiple species, from fish to human induced pluripotent stem cells. **Nucleic Acids Research** 54 (9) (2026) (*co-corresponding authors)
3. Jisu Park, Meiyu Qiu, Eun Jeong Cho, Sanghee Seo, Ji-Hoon Moon, Minji Kim, Hyemin Mun, Hyounji Yun, Hoewon Park, Arim Lim, Younsoo Kang, Jeong-woo Oh, Heejeong Youk, Seon-Hwan Kim, Yeongbeom Seo, Sae Min Kwon, Kyoung Su Sung, Hyuk-Jin Oh, Kyung Rae Cho, Kyungtae Yoon, Nam-Shik Kim*, Se Jin Jang*, Kyung Hwan Kim*, and **Ki-Jun Yoon***. Patient-derived organoids predict personalized drug response and reveal alternative therapeutic options in glioblastoma. **Cell Report Medicine** (2026) (accepted) (*co-corresponding authors)
4. Jihoon G Yoon, Hyunsoo Jang, Seungbok Lee, Se Song Jang, Soojin Park, Jaeso Cho, Minji Kim, Jiye Han, Hyounji Yun, Man Jin Kim, Soo Yeon Kim, Woo Joong Kim, Anna Cho, Jin Sook Lee, Murim Choi, Alberto Fernandez-Jaen, Sebastian Silva, Reinaldo Uribe-San-Martín, Christian Cantillano, Noriko Miyake, Byung Chan Lim, Jung Min Ko, Ki Joong Kim, **Ki-Jun Yoon***, Jong-Hee Chae*. Contribution of rare coding variants to microcephaly in individuals with neurodevelopmental disorders. **Genome Medicine** 2025 Aug 6;17(1):86. (*co-corresponding authors)
5. Jihwan Yu, Juae Jin, Eury Kwon, Hyunsoo Jang, Sang-Kun Choi, Donggyun Kim, Chaemin Kim, Seungkyu Son, **Ki-Jun Yoon**, Won Do Heo. Programmable RNA acetylation with CRISPR-Cas13. **Nature Chemical Biology** 2025 Jun 2. (2025)
6. Seunghyun Kim, Youngsik Woo, Dahun Um, Inseop Chun, Su-Jin Noh, Hyeon Ah Ji, Namyoun Jung, Bon Seong Goo, Jin Yeong Yoo, Dong Jin Mun, Tran Diem Nghi, Truong Thi My Nhung, Seung Hyeon Han, Su Been Lee, Wonhyeok Lee, Jonghyeok Yun, Ki Hurn So, Dae-Kyum Kim, Hyunsoo Jang, Yeongjun Suh, Jong-Cheol Rah, Seung Tae Baek, **Ki-Jun Yoon**, Min-Sung Kim, Tae-Kyung Kim, Sang Ki Park. Perturbed cell fate decision by schizophrenia-associated AS3MT^{d2d3} isoform during corticogenesis. **Science Advances** 11(13):eadp8271 (2025)
7. Thomas M Klompstra, **Ki-Jun Yoon***, Bon-Kyoung Koo*. Evolution of organoid genetics. **Eur J Cell Biol** 104(2):151481 (2025) (*co-corresponding authors)
8. Jueun Sim, Chan E Park, In Cho, Kyeongbae Min, Minho Eom, Seungjae Han, Hyungju Jeon, Eun-Seo Cho, Yunjeong Lee, Young Hyun Yun, Sungho Lee, Deok-Hyeon Cheon, Jihyun Kim, Museong Kim, Hyun-Ju Cho, Ji-Won Park, Ajeet Kumar, Yosep Chong, Jeong Seuk Kang, Kiryl D Piatkevich, Erica E Jung, Du-Seock Kang, Seok-Kyu Kwon, Jinhyun Kim, **Ki-Jun Yoon**, Jeong-Soo Lee, Cheol-Hee Kim, Myunghwan Choi, Jin Woo Kim, Mi-Ryoung Song, Hyung Jin Choi, Edward S Boyden, Young-Gyu Yoon, Jae-Byum Chang. Nanoscale Resolution Imaging of Whole Mouse Embryos Using Expansion Microscopy. **ACS Nano** 19(8):7910-7927 (2025)
9. Jaha Jeon, Young Cha, Yean Ju Hong, In-Hee Lee, Heejin Jang, Sanghyeok Ko, Serhiy Naumenko, Minseon Kim, Hannah L Ryu, Zenith Shrestha, Nayeon Lee, Tae-Yoon Park, HoeWon Park, Seo-Hyun Kim, **Ki-Jun Yoon**, Bin Song, Jeffrey Schweitzer, Todd M Herrington, Sek Won Kong, Bob Carter, Pierre Leblanc, Kwang-Soo Kim. Pre-clinical safety and efficacy of human induced pluripotent stem cell-derived products for autologous cell therapy in Parkinson's disease. **Cell Stem Cell** 32(3):343-360 (2025)

10. Geon Kim, Herve Hugonnet, Kyoohyun Kim, Jae-Hyuk Lee, Sung Sik Lee, Jeongmin Ha, Chungha Lee, Hoewon Park, **Ki-Jun Yoon**, Yongdae Shin, Gabor Csucs, Ian Hitchcock, Luke Mackinder, Ji Hyang Kim, Tae Hyun Hwang, Seongsoo Lee, Peter O'Toole, Bon-Kyoung Koo, Jochen Guck, YongKeun Park. Hologtomography. **Nature Reviews Methods Primers** 4 Article number 51 (2024)
11. Taehwan Kwak, Si-Hyung Park, Siyoung Lee, Yujeong Shin, **Ki-Jun Yoon**, Seung-Woo Cho, Jong-Chan Park, Seung-Ho Yang, Heeyeong Cho, Heh-In Im, Sun-Ju Ahn, Woong Sun, Ji Hun Yang. Guidelines for manufacturing and application of organoids: brain. **International Journal of Stem Cells** 17(2) 158 (2024)
12. Byung Su Ko, Myeong Hoon Han, Min Jee Kwon, Dong Gon Cha, Yuri Ji, Eun Seo Park, Min Jae Jeon, Somi Kim, Kyeongho Lee, Yoon Ha Choi, Jusung Lee, Monica Torras-Llort, **Ki-Jun Yoon**, Hyosang Lee, Jong Kyoung Kim, Sung Bae Lee. Baf-mediated transcriptional regulation of teashirt is essential for the development of neural progenitor cell lineages. **Exp Mol Med** 56, 422–440 (2024)
13. Surjeet Mastwal, Xinjian Li, Rianne Stowell, Matthew Manion, Wenyu Zhang, Nam-Shik Kim, **Ki-Jun Yoon**, Hongjun Song, Guo-Li Ming, Kuan Hong Wang. Adolescent neurostimulation of dopamine circuit reverses genetic deficits in frontal cortex function. **eLife** 12:RP87414 (2023)
14. Sung-Min Lee, Bonsang Koo, Clément Carré, André Fischer, Chuan He, Ajeet Kumar, Kathy Liu, Kate D Meyer, Guo-li Ming, Junmin Peng, Jean-Yves Roignant, Erik Storkebaum, Shuying Sun, Davide De Pietri Tonelli, Yinsheng Wang, Yi-Lan Weng, Luigi Pulvirenti, Yanhong Shi*, **Ki-Jun Yoon***, Hongjun Song*. Exploring the brain epitranscriptome: perspectives from the NSAS summit. **Frontiers in Neuroscience** 17 1291446 (2023) (*co-corresponding authors)
15. Mi-Yeon Kim, Mi Jeong Kim, Changyeob Lee, Juwon Lee, Sang Seong Kim, Sungho Hong, Hyoung Tae Kim, Jinsoo Seo, **Ki-Jun Yoon***, Sungho Han*. Trametinib activates endogenous neurogenesis and recovers neuropathology in a model of Alzheimer's disease. **Exp Mol Med** 55 (10), 2177-2189 (2023) (*co-corresponding authors)
16. Youkyeong Gloria Byun, Nam-Shik Kim, Gyuri Kim, Yi-Seon Jeon, Jong Bin Choi, Chan-Woo Park, Kyungdeok Kim, Hyunsoo Jang, Jinkyong Kim, Eunjoon Kim, Yong-Mahn Han, **Ki-Jun Yoon**, Seung-Hee Lee, Won-Suk Chung. Stress induces behavioral abnormalities by increasing expression of phagocytic receptor MERTK in astrocytes to promote synapse phagocytosis. **Immunity** 56 (9), 2105-2120 (2023)
17. Feng Zhang, **Ki-Jun Yoon**, Nam-Shik Kim, Guo-li Ming, Hongjun Song. Cell-autonomous and non-cell-autonomous roles of NKCC1 in regulating neural stem cell quiescence in the hippocampal dentate gyrus. **Stem Cell Reports** 18(7) 1468-1481 (2023)
18. Feng Zhang, **Ki-Jun Yoon**, Daniel Y Zhang, Nam-Shik Kim, Guo-li Ming, Hongjun Song. Epitranscriptomic regulation of cortical neurogenesis via Mettl8-dependent mitochondrial tRNA m3C modification. **Cell Stem Cell** 30(3) 300-311 (2023)
19. **Yoon, K.J.** Voyages to map unexplored parts of the epitranscriptomic world. **Exp Mol Med** 54, 1599–1600 (2022).
20. **Yoon, K.J.***, Kim, Y.K*. Resolving m⁶A epitranscriptome with stoichiometry. *Trends in Genetics* S0168-9525 (22) 00151-2 (Preview) (2022) (*co-corresponding authors)
21. Koo, B., Lee, K.H., Ming, G.L., **Yoon, K.J.***, Song, H*. Setting the clock of neural progenitor cells during mammalian corticogenesis. *Seminars in Cell and Developmental Biology* S1084-9521 (Review) (2022) (*co-corresponding authors)
22. Jang, H., Kim, S.H., Koh, Y., **Yoon, K.J.** Engineering Brain Organoids: Toward Mature Neural Circuitry with an Intact Cytoarchitecture. **International Journal of Stem Cells** 15 (1), 41-59 (2022)
23. Park, S., Ku, J., Lee, S.M., Hwang, H., Lee, N., Kim, H., **Yoon, K.J.**, Kim, Y., Choi, S.Q. Potential toxicity of inorganic ions in particulate matter: Ion permeation in lung and disruption of cell metabolism. **Science of the Total Environment** 824:153818 (2022)

24. Ringeling, F.R., Chakraborty, S., Vissers, C., Reiman, D., Patel, A.M., Lee, K.H., Hong, A., Park, C.W., Reska, T., Gagneur, J., Chang, H., Spletter, M.L., **Yoon, K.J.**, Ming, G.L., Song, H., Canzar, S. Partitioning RNAs by length improves transcriptome reconstruction from short-read RNA-seq data. **Nature Biotechnology** (2022)
25. Kim, N.S., Ringeling, F.R., Zhou, Y., Nguyen, H.N., Temme, S.J., Lin, Y.T., Eacker, S., Dawson, V.L., Dawson, T.M., Xiao, B., Hsu, K.S., Canzar, S, Li, W, Worley, P, Christian, K. M., **Yoon, K.J.***, Song, H., Ming, G.L*. CYFIP1 dosages exhibit divergent behavioral impact via diametric regulation of NMDAR complex translation in mouse models of psychiatric disorders. **Biological Psychiatry** (2022) (*co-corresponding authors)
26. Kim, N.S., Wen, Z., Liu, J., Zhou, Y., Guo, Z., Xu, C., Lin, Y.T., **Yoon, K.J.**, Park, J., Cho, M., Kim, M., Wang, X., Yu, H., Sakamuru, S., Christian, K.M., Hsu, K.S., Xia, M., Li, W., Ross, C.A., Margolis, R.L., Lu, X.Y., Song, H., Ming, G.L. Pharmacological rescue in patient iPSC and mouse models with a rare DISC1 mutation. **Nature Communications** 12 (1), 1398 (2021)
27. Song, G, Lee, E.M., Pan, J., Xu, M., Rho, H.S., Cheng, Y., Whitt, N., Yang, S., Kouznetsova, J., Klumpp-Thomas, C., Michael, S.G., Moore, C., **Yoon, K.J.**, Christian, K.M., Simeonov, A., Huang, W., Xia, M., Huang, R., Lal-Nag, M., Tang, H., Zheng, W., Qian, J., Song, H., Ming, G.L., Zhu, H. An Integrated Systems Biology Approach Identifies the Proteasome as A Critical Host Machinery for ZIKV and DENV Replication. **Genomics Proteomics Bioinformatics** (2021)
28. Lee, J., Park, J., Kim, J.H., Lee, G., Park, T.E., **Yoon, K.J.**, Kim, Y.K., Lim, C. LSM12-EPAC1 defines a neuroprotective pathway that sustains the nucleocytoplasmic RAN gradient. **PLoS Biology** 18 (12), eCollection (2020)
29. Park, C.W., Lee, S.M., **Yoon, K.J.** Epitranscriptomic regulation of transcriptome plasticity in development and diseases of the brain. **BMB Reports** 53 (11), 551-564 (Review) (2020)
30. Lee, J., **Yoon, K.J.**, Park, P., Lee, C., Kim, M.J., Han, D.H., Kim, J.I., Kim, S., Lee, H.R., Lee, Y., Jang, E.H., Ko, H.G., Kong, Y.Y., Kaang, B.K. Neur1 and Neur2 are required for hippocampus-dependent spatial memory and synaptic plasticity. **Hippocampus** 30 (11), 1158-1166 (2020)
31. Habela, C., **Yoon, K.J.**, Kim, N.S., Taga, A., Bell, K., Bergles, D., Maragakis, N., Ming, G.L., Song, H. Persistent Cyfip1 expression is required to maintain the adult subventricular zone neurogenic niche. **Journal of Neuroscience** 40 (10), 2015-2024 (2020)
32. Koo, B., Choi, B., Park, H., **Yoon, K.J.** Past, Present, and Future of Brain Organoid Technology. **Molecules and Cells** 42 (9), 617-627 (Review) (2019)
33. Kim, J., Koo, B.K., **Yoon, K.J.** Modeling host-virus interactions in viral infectious diseases using stem-cell-derived systems and CRISPR/Cas9 technology. **Viruses** 11 (2), E124 (Review) (2019)
34. Zhou, Y., Bond, A.M., Shade, J.E., Zhu, Y., Davis, C.O., Wang, X., Su, Y., **Yoon, K.J.**, Phan, A.T., Chen, W.J., Oh, J.H., Marsh-Armstrong, N., Atabai, K., Ming, G.L., Song, H. Autocrine Mfge8 signaling prevents developmental exhaustion of the adult neural stem cell pool. **Cell Stem Cell** 23 (3), 444-452 (2018)
35. **Yoon, K.J.**, Ming, G.L., Song, H. Epitranscriptomes in the adult mammalian brain: dynamic changes regulate behavior. **Neuron** 99 (2), 243-245 (Preview) (2018)
36. **Yoon, K.J.**, Vissers, C., Ming, G.L., Song, H. Epigenetics and epitranscriptomics in temporal patterning of cortical neural progenitor competence. **Journal of Cell Biology** 217 (6), 1901-1914 (Review) (2018)
37. **Yoon, K.J.**, Ming, G.L., Song, H. Coupling Neurogenesis to Circuit Formation. **Cell** 173 (Preview) (2018)
38. Song, G., Rho, H.S., Pan, J., Ramos, P., **Yoon, K.J.**, Medina, F.A., Lee, E.M., Eichnger, D.J., Ming, G.L., Munoz-Jordan, J.L., Tang, H., Pino, I., Song, H., Qian, J., Zhu, H. Multiplexed biomarker panels discriminate Zika and Dengue virus infection in humans. **Molecular and Cellular Proteomics** mcp. RA117 (2017)

39. **Yoon, K.J.***, Ringeling, F.R.*, Vissers, C.*, Jacob, F., Pokrass, M., Jimenez-Cyrus, D., Su, Y., Kim, N.S., Zhu, Y., Zheng, L., Kim, S., Wang, X., Hyde, T.M., Weinberger, D.R., Jin, P., Zhuang, X., Regot, S., Regot, S., Canzar, S., He, C., Ming, G.L., Song, H. Temporal Control of Mammalian Cortical Neurogenesis by m⁶A mRNA Methylation. **Cell** 171, 1–13 (2017) (*equal contribution)
Highlighted with a “News and views” article in Nature 551(7681), 448-449 (2017)
Previewed in Neuron 96(4), 718-720 (2017)
40. **Yoon, K.J.**, Song, G., Qian, X., Pan, J., Rho, H.S., Kim, N.S., Habela, C., Zheng, L., Jacob, F., Zhang, F., Lee, E.M., Huang, W.K., Ringeling, F.R., Vissers, C., Li, C., Yuan, L., Kang, K., Kim, S., Yeo, J., Cheng, Y., Liu, S., Wen, Z., Qin, C.F., Wu, Q., Christian, K.M., Tang, H., Jin, P., Xu, Z., Qian, J., Zhu, H., Song, H., Ming, G.L. Zika-virus-encoded NS2A disrupts mammalian cortical neurogenesis by degrading adherens junction proteins. **Cell Stem Cell** 21(3), 349-358 (2017)
41. Zhang, F., Hammack, C., Ogden S.C., Cheng, Y., Lee, E.M., Wen, Z., Qian, X., Nguyen, H.N., Li, Y., Yao, B., Xu, M., Xu, T., Chen, L., Wang, Z., Feng, H., Huang, W.K., **Yoon, K.J.**, Shan, C., Huang, L., Qin, Z., Christian, K.M., Shi, P.Y., Xu, M., Xia, M., Zheng, W., Wu, H., Song, H., Tang, H., Ming, G.L., Jin, P. Molecular signatures associated with ZIKV exposure in human cortical neural progenitors. **Nuclear Acid Research** 44(18), 8610-8620 (2016)
42. Qian, X., Nguyen, H.N., Song, M.M., Hadiono, C., Ogden, S.C., Hammack, C., Yao, B., Hamersky, G.R., Jacob, F., Zhong, C., **Yoon, K.J.**, Jeang, W., Lin, L., Li, Y., Thakor, J., Berg, D.A., Zhang, C., Kang, E.C., Chickering, M., Nauen, D., Ho, C.Y., Wen, Z., Christian, K.M., Shi, P.Y., Maher, B.J., Wu, H., Jin, P., Tang, H., Song, H. and Ming, G.L. Brain-region-specific organoids using mini-bioreactors for modeling ZIKV exposure. **Cell** 165(5), 1238-1254 (2016)
43. Berg, D.A.*, **Yoon, K.J.***, Will B., Xiao, A.Y., Kim, N.S., Christian, K.M., Song, H., Ming, G.L. Tbr2-expressing intermediate progenitor cells in the adult mouse hippocampus are unipotent neuronal precursors with limited amplification capacity under homeostasis. **Frontiers in Biology** 10(3), 262-271 (2015) (*equal contribution)
44. Wen, Z., Nguyen, H.N., Guo, Z., Lalli, M.A., Wang, X., Su, Y., Kim, N.S., **Yoon, K.J.**, Shin, J., Zhang, C., Makri, G., Nauen, D., Yu, H., Guzman, E., Chiang, C.H., Yoritomo, N., Kaibuchi, K., Zou, J., Christian, K.M., Cheng, L., Ross, C.A., Margolis, R.L., Chen, G., Kosik, K.S., Song, H., Ming, G.L. Synaptic dysregulation in a human iPS cell model of mental disorders. **Nature** 515, 414–418 (2014)
45. **Yoon, K.J.**, Nguyen, H.N., Ursini, G., Zhang, F., Kim, N.S., Wen, Z., Makri, G., Nauen, D., Shin, J.H., Park, Y., Chung, R., Pekle, E., Zhang, C., Towe, M., Lee, Y., Rujescu, D., St. Clair, D., Kleinman, J.E., Hyde, T.M., Christian, K.M., Rapoport, J.L., Weinberger, D.R., Song, H., Ming, G.L. Modeling a genetic risk for schizophrenia in iPSCs and mice reveals neural stem cell deficits associated with adherens junctions and polarity. **Cell Stem Cell** 15(1), 79-91 (2014)
Cover and Featured Article, previewed in Cell Stem Cell 15(1), 4-5 (2014)
Highlighted in Nature Medicine 20(8), 813 (2014)
46. **Yoon, K.J.***, Lee, H.R.*, Jo, Y.S., An, K., Jung, S.Y., Jeong, M.W., Kwon, S.K., Kim, N.S., Jeong, H.W., An, H.S., Kim, K.T., Lee, K., Kim, E., Kim, J.H., Choi, J.S., Kaang, B.K., Kong, Y.Y. Mind bomb-1 is an essential modulator of long-term memory and synaptic plasticity via the Notch signaling pathway. **Mol Brain** 5(1), 40 (2012) (*equal contribution)
47. Kim, N.S., Kim, H.T., Choi, S.W., Kim, Y.Y., **Yoon, K.J.**, Koo, B.K., Kong, M.P., Shin, J., Cho, Y., Kong, Y.Y. Survival and differentiation of mammary epithelial cells in mammary gland development require nuclear retention of Id2 due to RANK signaling. **Molecular and Cellular Biology** (2011)
48. Jung, Y.J., Park, Y.S., **Yoon, K.J.**, Kong, Y.Y., Park, J.W., Nam, H.G. Molecule-level imaging of Pax6 mRNA distribution in mouse embryonic neocortex by molecular interaction force microscopy. **Nucleic Acids Research** 37(2), e10 (2009)

49. Song, R., Kim, Y.W., Koo, B.K., Jeong, H.W., Yoon, M.J., **Yoon, K.J.**, Jun, D.J., Im, S.K., Shin, J., Kong, M.P., Kim, K.T., Yoon, K., Kong, Y.Y. Mind bomb 1 in the lymphopoietic niches is essential for T and marginal zone B cell development. **Journal of Experimental Medicine** 205, 2525-2536 (2008)
50. **Yoon, K.J.**, Koo, B.K., Im, S.K., Jeong, H.W., Ghim, J., Kwon, M.C., Moon, J.S., Miyata, T., and Kong, Y.Y. Mind bomb 1-expressing intermediate progenitors generate notch signaling to maintain radial glial cells. **Neuron** 58, 519-531 (2008)
51. Kwon, M.C., Koo, B.K., Moon, J.S., Kim, Y.Y., Park, K.C., Kim, N.S., Kwon, M.Y., Kong, M.P., **Yoon, K.J.**, Im, S.K., Ghim, J., Han, Y.M., Jang, S., Shong, M., and Kong, Y.Y. Crif1 is a novel transcriptional coactivator of STAT3. **EMBO Journal** (27), 642-653 (2008)
52. Koo, B.K.*, Yoon, M.J.*, **Yoon, K.J.***, Im, S.K., Kim, Y.Y., Kim, C.H., Suh, P.G., Jan, Y.N., and Kong, Y.Y. An obligatory role of mind bomb-1 in notch signaling of mammalian development. **PLoS ONE** 2, e1221 (*equal contribution) (2007)
53. Song, R., Koo, B.K., **Yoon, K.J.**, Yoon, M.J., Yoo, K.W., Kim, H.T., Oh, H.J., Kim, Y.Y., Han, J.K., Kim, C.H., and Kong, Y.Y. Neuralized-2 regulates a Notch ligand in cooperation with Mind bomb-1. **Journal of Biological Chemistry** 281, 36391-36400 (2006)
54. Yoo, K.W., Kim, E.H., Jung, S.H., Rhee, M., Koo, B.K., **Yoon, K.J.**, Kong, Y.Y., and Kim, C.H. Snx5, as a Mind bomb-binding protein, is expressed in hematopoietic and endothelial precursor cells in zebrafish. **FEBS Letters** 580, 4409-4416 (2006)
55. Koo, B.K., Lim, H.S., Song, R., Yoon, M.J., **Yoon, K.J.**, Moon, J.S., Kim, Y.W., Kwon, M.C., Yoo, K.W., Kong, M.P., Lee J, Chitnis A.B., Kim C.H. and Kong Y.Y. Mind bomb 1 is essential for generating functional Notch ligands to activate Notch. **Development** 132, 3459-3470 (2005)
56. Koo, B.K., **Yoon, K.J.**, Yoo, K.W., Lim, H.S., Song, R., So, J.H., Kim, C.H., and Kong, Y.Y. Mind bomb-2 is an E3 ligase for Notch ligand. **Journal of Biological Chemistry** 280, 22335-22342 (2005)