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**Education:**

1996-2002 B.S. (M.D.)

Seoul National University College of Medicine in Seoul, South Korea

2002-2006 Ph.D. (Medicine, Neuroscience)

Seoul National University College of Medicine in Seoul, South Korea

Under the supervision of Dr. Choong Ik Cha

Thesis: Distribution of vasoactive intestinal peptide and pituitary

adenylate cyclase-activating polypeptide receptors

(VPAC1, VPAC2, and PAC1 receptor) in the rat brain and

their expressional changes during aging

**Certificate:**

2002 Medical doctor (South Korea, No. 77169)

**Experiences:**

2002-2006 Teaching Assistant

Seoul National University College of Medicine in Seoul, South Korea

2006-2009 Public Health Doctor (Obligated Military Service Program)

Division of Forensic Medicine, Department of Forensic Medicine

National Institute for Scientific Investigation, Seoul, South Korea

2006-2009 Postdoctoral fellow with Dr. Do-Hyun Nam

Department of Neurosurgery, Cancer Stem Cell Research Center

Samsung Biomedical Research Institute, Samsung Medical Center

2009-2012 Assistant professor

Department of Anatomy

Seoul National University College of Medicine in Seoul, South Korea

2012-2013 Assistant professor

Department of Anatomy and Cell Biology

Sungkyunkwan University School of Medicine

2013-2018 Associate professor

Department of Anatomy and Cell Biology

Sungkyunkwan University School of Medicine

2015-2016 Visiting research scholar

Department of Radiation Oncology

Duke University Medical Center

2018-Present Professor

Department of Anatomy and Cell Biology

Sungkyunkwan University School of Medicine

2018-Present CEO

Medinno Inc. (Company for neural stem cell therapeutics)

**Awards or Honors:**

2004 Excellent poster award in the 54th annual conference

of the Korean association of anatomists

2008 Travel award in the 6th ISSCR annual meeting

of the International society for stem cell research

2009 Hoshino award in the 3rd quadrennial meeting of the world federation

of neuro-oncology jointly with the 6th meeting of the asian society for

neuro-oncology (ASNO)

2012 Scientist of the year, Korean Association of Anatomist

**Publications:**

1. Kim SS, Pyeon HJ, Bae YK, Nam H, Kim CK, Lee SH, **Joo KM**. Adult Human Multipotent Neural Cells Could Be Distinguished from Other Cell Types by Proangiogenic Paracrine Effects via MCP-1 and GRO. Stem Cells Int. 2021 Aug 12;2021:6737288.
2. Lee S, **Joo KM**, Park K. Challenging Microvascular Decompression Surgery for Hemifacial Spasm. World Neurosurg. 2021 Jul;151:e94-e99.
3. Won JS, Yeon JY, Pyeon HJ, Noh YJ, Hwang JY, Kim CK, Nam H, Lee KH, Lee SH, **Joo KM**. Optimal Preclinical Conditions for Using Adult Human Multipotent Neural Cells in the Treatment of Spinal Cord Injury. Int J Mol Sci. 2021 Mar 4;22(5):2579.
4. Lee HW, Chung W, Lee HO, Jeong DE, Jo A, Lim JE, Hong JH, Nam DH, Jeong BC, Park SH,**Joo KM**, Park WY. Single-cell RNA sequencing reveals the tumor microenvironment and facilitates strategic choices to circumvent treatment failure in a chemorefractory bladder cancer patient. Genome Med. 2020 May 27;12(1):47. (**co-corresponding author**)
5. Lee YI, Kim YG, Pyeon HJ, Ahn JC, Logan S, Orock A, **Joo KM**, Lőrincz A, Deák F. Dysregulation of the SNARE-binding protein Munc18-1 impairs BDNF secretion and synaptic neurotransmission: a novel interventional target to protect the aging brain. Geroscience. 2019 Apr;41(2):109-123.
6. Yun JW, Bae YK, Cho SY, Koo H, Kim HJ, Nam DH, Kim SH, Chun S, **Joo KM**, Park WY. Elucidation of Novel Therapeutic Targets for Acute Myeloid Leukemias with RUNX1-RUNX1T1 Fusion. Int J Mol Sci. 2019 Apr 6;20(7):1717. (**co-corresponding author**)
7. Yeon JY, Hwang JY, Lee HW, Pyeon HJ, Won JS, Noh YJ, Nam H, **Joo KM**. Optimized Clump Culture Methods for Adult Human Multipotent Neural Cells. Int J Mol Sci. 2018 Oct 29;19(11): 3380. (**co-corresponding author**)
8. Won JS, Nam H, Lee HW, Hwang JY, Noh YJ, Nam DH, Lee SH, **Joo KM**. In vivo distribution of U87MG cells injected into the lateral ventricle of rats with spinal cord injury. PLoS One. 2018 Aug 16;13(8):e0202307. (**co-corresponding author**)
9. Lee KH, Pyeon HJ, Nam H, Won JS, Hwang JY, Lee KA, Yeon JY, Hong SC, Nam DH, Lee K, Lee SH, **Joo KM**. Significant therapeutic effects of adult human multipotent neural cells on spinal cord injury. Stem Cell Res. 2018 Aug;31:71-78. (**co-corresponding author**)
10. Sa JK, Kim SH, Lee JK, Cho HJ, Shin YJ, Shin H, Koo H, Kim D, Lee M, Kang W, Hong SH, Kim JY, Park YW, Song SW, Lee SJ, **Joo KM**, Nam DH. Identification of Genomic and Molecular Traits that Present Therapeutic Vulnerability to HGF-targeted therapy in Glioblastoma. Neuro Oncol. 2018 Jun 23;21(2):222-33.
11. Lee KH, Nam H, Won JS, Hwang JY, Jang HW, Lee SH, **Joo KM**. In Vivo Spinal Distribution of Cy5.5 Fluorescent Dye after Injection via the Lateral Ventricle and Cisterna Magna in Rat Model. J Korean Neurosurg Soc. 2018 Jul;61(4):434-40. (**co-corresponding author**)
12. Jeong DE, Woo SR, Nam H, Nam DH, Lee JH, **Joo KM**. Preclinical and clinical implications of TERT promoter mutation in glioblastoma multiforme. Oncol Lett. 2017 Dec;14(6):8213-19. (**co-corresponding author**)
13. Yoon SW, Cramer CK, Miles DA, Reinsvold MH, **Joo KM**, Kirsch DG, Oldham M. A precision 3D conformal treatment technique in rats: application to whole brain radiotherapy with hippocampal avoidance. Med Phys. 2017 Nov;44(11):6008-17.
14. Bae YK, Kim GH, Lee JC, Seo BM, **Joo KM**, Lee G, Nam H. The Significance of SDF-1α-CXCR4 Axis in in vivo Angiogenic Ability of Human Periodontal Ligament Stem Cells. Mol Cells. 2017 Jun 30;40(6):386-92.
15. Nam H, Kim GH, Bae YK, Jeong DE, **Joo KM**, Lee K, Lee SH. Angiogenic Capacity of Dental Pulp Stem Cell Regulated by SDF-1α-CXCR4 Axis. Stem Cells Int. 2017;2017:8085462.
16. Lee YE, Choi SA, Kwack PA, Kim HJ, Kim IH, Wang KC, Phi JH, Lee JY, Chong S, Park SH, Park KD, Hwang DW, **Joo KM**, Kim SK. Repositioning disulfiram as a radiosensitizer against atypical teratoid/rhabdoid tumor. Neuro Oncol. 2017 Aug 1;19(8):1079-87. (**co-corresponding author**)
17. Lee KH, Nam H, Jeong da E, Kim SS, Song HJ, Pyeon HJ, Kang K, Hong SC, Nam DH, **Joo KM**. Sensitive Tumorigenic Potential Evaluation of Adult Human Multipotent Neural Cells Immortalized by hTERT Gene Transduction. PLoS One. 2016 Jul 8;11(7):e0158639. (**corresponding author**)
18. Choi SA, Yun JW, **Joo KM**, Lee JY, Kwak PA, Lee YE, You JR, Kwon E, Kim WH, Wang KC, Phi JH, Kang BC, Kim SK. Preclinical Biosafety Evaluation of Genetically Modified Human Adipose Tissue-Derived Mesenchymal Stem Cells for Clinical Applications to Brainstem Glioma. Stem Cells Dev. 2016 Jun 15;25(12):897-908. (**co-first author**)
19. Kim KT, Lee HW, Lee HO, Song HJ, Jeong da E, Shin S, Kim H, Shin Y, Nam DH, Jeong BC, Kirsch DG, **Joo KM**, Park WY. Application of single-cell RNA sequencing in optimizing a combinatorial therapeutic strategy in metastatic renal cell carcinoma. Genome Biol. 2016 Apr 29;17(1):80. (**co-corresponding author**)
20. Hwang SJ, Lee HW, Kim HR, Lee H, Shin CH, Yun SI, Lee DH, Kim DH, Kim KK, **Joo KM**, Kim HH. Ubiquitin-specific protease 4 controls metastatic potential through β-catenin stabilization in brain metastatic lung adenocarcinoma. Sci Rep. 2016 Feb 17;6:21596. (**co-corresponding author**)
21. Cho YJ, Kang W, Kim SH, Sa JK, Kim N, Paddison PJ, Kim M, **Joo KM**, Hwang YI, Nam DH. Involvement of DDX6 gene in radio- and chemoresistance in glioblastoma. Int J Oncol. 2016 Mar;48(3):1053-62.
22. Lee JK, Chang N, Yoon Y, Yang H, Cho H, Kim E, Shin Y, Kang W, Oh YT, Mun GI, **Joo KM**, Nam DH, Lee J. USP1 targeting impedes GBM growth by inhibiting stem cell maintenance and radioresistance. Neuro Oncol. 2016 Jan;18(1):37-47.
23. Lee SJ, Kang WY, Yoon Y, Jin JY, Song HJ, Her JH, Kang SM, Hwang YK, Kang KJ, **Joo KM**, Nam DH. Natural killer (NK) cells inhibit systemic metastasis of glioblastoma cells and have therapeutic effects against glioblastomas in the brain. BMC Cancer. 2015 Dec 24;15(1):1011. (**co-corresponding author**)
24. Lee YE, An J, Lee KH, Kim SS, Song HJ, Pyeon H, Nam H, Kang K, **Joo KM**. The Synergistic Local Immunosuppressive Effects of Neural Stem Cells Expressing Indoleamine 2,3-Dioxygenase (IDO) in an Experimental Autoimmune Encephalomyelitis (EAE) Animal Model. PLoS One. 2015 Dec 4;10(12):e0144298. (**co-corresponding author**)
25. Cramer CK, Yoon SW, Reinsvold M, **Joo KM**, Norris H, Hood RC, Adamson JD, Klein RC, Kirsch DG, Oldham M. Treatment Planning and Delivery of Whole Brain Irradiation with Hippocampal Avoidance in Rats. PLoS One. 2015 Dec 4;10(12):e0143208.
26. Lee Y, Kim KH, Kim DG, Cho HJ, Kim Y, Rheey J, Shin K, Seo YJ, Choi YS, Lee JI, Lee J, **Joo KM**, Nam DH. FoxM1 Promotes Stemness and Radio-Resistance of Glioblastoma by Regulating the Master Stem Cell Regulator Sox2. PLoS One. 2015 Oct 7;10(10):e0137703. (**co-corresponding author**)
27. Jeong da E, Song HJ, Lim S, Lee SJ, Lim JE, Nam DH, **Joo KM**, Jeong BC, Jeon SS, Choi HY, Lee HW. Repurposing the anti-malarial drug artesunate as a novel therapeutic agent for metastatic renal cell carcinoma due to its attenuation of tumor growth, metastasis, and angiogenesis. Oncotarget. 2015 Oct 20;6(32):33046-64.
28. Kim J, Lee IH, Cho HJ, Park CK, Jung YS, Kim Y, Nam SH, Kim BS, Johnson MD, Kong DS, Seol HJ, Lee JI, **Joo KM**, Yoon Y, Park WY, Lee J, Park PJ, Nam DH. Spatiotemporal Evolution of the Primary Glioblastoma Genome. Cancer Cell. 2015 Sep 14;28(3):318-28.
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30. Kim DG, Jin Y, Jin J, Yang H, **Joo KM**, Lee WS, Shim SR, Kim SW, Yoo J, Lee SH, Yoo JS, Nam DH. Anticancer activity of TTAC-0001, a fully human anti-vascular endothelial growth factor receptor 2 (VEGFR-2/KDR) monoclonal antibody, is associated with inhibition of tumor angiogenesis. MAbs. 2015;7(6):1195-204.
31. Kim KT, Lee HW, Lee HO, Kim SC, Seo YJ, Chung W, Eum HH, Nam DH, Kim J, **Joo KM**, Park WY. Single-cell mRNA sequencing identifies subclonal heterogeneity in anti-cancer drug responses of lung adenocarcinoma cells. Genome Biol. 2015 Jun 19;16:127. (**co-corresponding author**)
32. Sa JK, Yoon Y, Kim M, Kim Y, Cho HJ, Lee JK, Kim GS, Han S, Kim WJ, Shin YJ, **Joo KM**, Paddison PJ, Ishitani T, Lee J, Nam DH. In vivo RNAi screen identifies NLK as a negative regulator of mesenchymal activity in Glioblastoma. Oncotarget. 2015 Aug 21;6(24):20145-59.
33. Choi SA, Lee YE, Kwak PA, Lee JY, Kim SS, Lee SJ, Phi JH, Wang KC, Song J, Song SH, **Joo KM**, Kim SK. Clinically applicable human adipose tissue-derived mesenchymal stem cells delivering therapeutic genes to brainstem gliomas. Cancer Gene Ther. 2015 Jun;22(6):302-11. (**co-corresponding author**)
34. Hwang SJ, Lee HW, Kim HR, Song HJ, Lee DH, Lee H, Shin CH, Joung JG, Kim DH, **Joo KM**, Kim HH. Overexpression of microRNA-95-3p suppresses brain metastasis of lung adenocarcinoma through downregulation of cyclin D1. Oncotarget. 2015 Aug 21;6(24):20434-48. (**co-corresponding author**)
35. Woo SR, Oh YT, An JY, Kang BG, Nam DH, **Joo KM**. Glioblastoma specific antigens, GD2 and CD90, are not involved in cancer stemness. Anat Cell Biol. 2015 Mar;48(1):44-53. (**corresponding author**)
36. Lee HW, Choi HY, **Joo KM**, Nam DH. Tumor Progression Locus 2 (Tpl2) Kinase as a Novel Therapeutic Target for Cancer: Double-Sided Effects of Tpl2 on Cancer. Int J Mol Sci. 2015 Feb 25;16(3):4471-91. Review. (**co-corresponding author**)
37. Nam H, Lee KH, Nam DH, **Joo KM**. Adult human neural stem cell therapeutics: Current developmental status and prospect. World J Stem Cells. 2015 Jan 26;7(1):126-36. Review. (**corresponding author**)
38. Lee HW, Lee JI, Lee SJ, Cho HJ, Song HJ, Jeong DE, Seo YJ, Shin S, Joung JG, Kwon YJ, Choi YL, Park WY, Lee HM, Seol HJ, Shim YM, **Joo KM**, Nam DH. Patient-derived xenografts from non-small cell lung cancer brain metastases are valuable translational platforms for the development of personalized targeted therapy. Clin Cancer Res. 2015 Mar 1;21(5):1172-82. (**co-corresponding author**)
39. Lee JK, **Joo KM**, Lee J, Yoon Y, Nam DH. Targeting the epithelial to mesenchymal transition in glioblastoma: the emerging role of MET signaling. Onco Targets Ther. 2014 Oct 20;7:1933-44. Review.
40. Woo SR, Ham Y, Kang W, Yang H, Kim S, Jin J, **Joo KM**, Nam DH. KML001, a Telomere-Targeting Drug, Sensitizes Glioblastoma Cells to Temozolomide Chemotherapy and Radiotherapy through DNA Damage and Apoptosis. Biomed Res Int. 2014;2014:747415. (**co-corresponding author**)
41. Lee HW, Cho HJ, Lee SJ, Song HJ, Cho HJ, Park MC, Seol HJ, Lee JI, Kim S, Lee HM, Choi HY, Nam DH, **Joo KM**. Tpl2 induces castration resistant prostate cancer progression and metastasis. Int J Cancer. 2015 May 1;136(9):2065-77.
42. Oh YT, Cho HJ, Kim J, Lee JH, Rho K, Seo YJ, Choi YS, Jung HJ, Song HS, Kong DS, Seol HJ, Lee JI, Yoon Y, Kim S, Nam DH, **Joo KM**. Translational validation of personalized treatment strategy based on genetic characteristics of glioblastoma. PLoS One. 2014 Aug 1;9(8):e103327
43. Kim J, Lee Y, Cho HJ, Lee YE, An J, Cho GH, Ko YH, Joo KM, Nam DH. NTRK1 fusion in glioblastoma multiforme. PLoS One. 2014 Mar 19;9(3):e91940. (**co-corresponding author**)
44. Cho YB, Hong HK, Choi YL, Oh E, **Joo KM**, Jin J, Nam DH, Ko YH, Lee WY. Colorectal cancer patient-derived xenografted tumors maintain characteristic features of the original tumors. J Surg Res. 2014 Apr;187(2):502-9.
45. Kang W, Jin J, Yang H, Seol HJ, Kim KH, Lee JI, Kim SU, **Joo KM**, Nam DH. Genetically-engineered human neural stem cells with rabbit carboxyl esterase can target CNS lymphoma. Anticancer Res. 2013 Dec;33(12):5335-42. (**co-corresponding author**)
46. Lee HW, Park YM, Lee SJ, Cho HJ, Kim DH, Lee JI, Kang MS, Seol HJ, Shim YM, Nam DH, Kim HH, **Joo KM**. Alpha-smooth muscle actin (ACTA2) is required for metastatic potential of human lung adenocarcinoma. Clin Cancer Res. 2013 Nov 1;19(21):5879-89.
47. Lee HW, **Joo KM**, Lim JE, Cho HJ, Cho HJ, Park MC, Seol HJ, Seo SI, Lee JI, Kim S, Jeong BC, Nam DH. Tumor Progression Locus 2 (Tpl2) Kinase Contributes Tumor Growth and Metastasis of Clear Cell Renal Cell Carcinoma. Mol Cancer Res. 2013 Nov;11(11):1375-86. (**co-first author**)
48. Kang W, Seol HJ, Seong DH, Kim J, Kim Y, Kim SU, Nam DH, **Joo KM**. Adenosine potentiates the therapeutic effects of neural stem cells expressing cytosine deaminase against metastatic brain tumors. Oncol Rep. 2013 Sep;30(3):1101-6.
49. Kim E, Kim M, Woo DH, Shin Y, Shin J, Chang N, Oh YT, Kim H, Rheey J, Nakano I, Lee C, **Joo KM**, Rich JN, Nam DH, Lee J. Phosphorylation of EZH2 Activates STAT3 Signaling via STAT3 Methylation and Promotes Tumorigenicity of Glioblastoma Stem-like Cells. Cancer Cell. 2013 Jun 10;23(6):839-52
50. Lee SJ, Seol HJ, Lee HW, Kang WY, Kang BG, Jin J, Jo MY, Jin Y, Lee JI, Joo KM, Nam DH. Gene silencing of c-Met leads to brain metastasis inhibitory effects. Clin Exp Metastasis. 2013 Oct;30(7):845-54. (**co-corresponding author**)
51. Yang H, Lee HW, Kim Y, Lee Y, Choi YS, Kim KH, Jin J, Lee J, **Joo KM**, Nam DH. Radiosensitization of brain metastasis by targeting c-MET. Lab Invest. 2013 Mar;93(3):344-53. (**co-corresponding author**)
52. **Joo KM**, Kim J, Jin J, Kim M, Seol HJ, Muradov J, Yang H, Choi YL, Park WY, Kong DS, Lee JI, Ko YH, Woo HG, Lee J, Kim S, Nam DH. Patient-specific orthotopic glioblastoma xenograft models recapitulate the histopathology and biology of human glioblastomas in situ. Cell Rep. 2013 Jan 31;3(1):260-73.
53. Kim KH, Seol HJ, Kim EH, Rheey J, Jin HJ, Lee Y, **Joo KM**, Lee J, Nam DH. Wnt/β-catenin signaling is a key downstream mediator of MET signaling in glioblastoma stem cells. Neuro Oncol. 2013 Feb;15(2):161-71.
54. **Joo KM**, Kang BG, Yeon JY, Cho YJ, An JY, Song HS, Won JH, Kim SJ, Hong SC, Nam DH. Experimental and clinical factors influencing long-term stable in vitro expansion of multipotent neural cells from human adult temporal lobes. Exp Neurol. 2013 Feb;240:168-77.
55. Lee HW, Seol HJ, Choi YL, Ju HJ, **Joo KM**, Ko YH, Lee JI, Nam DH. Genomic copy number alterations associated with the early brain metastasis of non-small cell lung cancer. Int J Oncol. 2012 Dec;41(6):2013-20.
56. Lee JC, **Joo KM**, Choe SY, Cha CI.Region-specific changes in the immunoreactivity of TRPV4 expression in the central nervous system of SOD1(G93A) transgenic mice as an in vivo model of amyotrophic lateral sclerosis. J Mol Histol. 2012 Dec;43(6):625-31.
57. **Joo KM,** Jin J, Kim E, Kim KH, Kim Y, Kang BG, Kang YJ, Lathia JD, Cheng KH, Song P, Kim H, Seol HJ, Kong DS, Lee JI, Rich JN, Lee J, Nam DH. MET Signaling Regulates Glioblastoma Stem Cells. Cancer Res. 2012 Aug 1;72(15):3828-3838.
58. Cho YJ, Song HS, Bhang S, Lee S, Kang BG, Lee JC, An J, Cha CI, Nam DH, Kim BS, **Joo KM**. Therapeutic effects of human adipose stem cell-conditioned medium on stroke. J Neurosci Res. 2012 Sep;90(9):1794-802.
59. Jo MY, Kim YG, Kim Y, Lee SJ, Kim MH, **Joo KM**, Kim HH, Nam DH. Combined therapy of temozolomide and ZD6474 (vandetanib) effectively reduces glioblastoma tumor volume through anti-angiogenic and anti-proliferative mechanisms. Mol Med Report. 2012 Jul;6(1):88-92.
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61. Seol HJ, Yoo HY, Jin J, **Joo KM**, Kim HS, Yoon SJ, Choi SH, Kim Y, Pyo HR, Lim DH, Kim W, Um HD, Kim JH, Lee JI, Nam DH. The expression of DNA damage checkpoint proteins and prognostic implication in metastatic brain tumors. Oncol Res. 2011;19(8-9):381-90.
62. Lee JC, Seong J, Kim SH, Lee SJ, Cho YJ, An J, Nam DH, **Joo KM**, Cha CI. Replacement of microglial cells using Clodronate liposome and bone marrow transplantation in the central nervous system of SOD1(G93A) transgenic mice as an in vivo model of amyotrophic lateral sclerosis. Biochem Biophys Res Commun. 2012 Feb 10;418(2):359-65. (**co-corresponding author**)
63. Jung Y, **Joo KM**, Seong DH, Choi YL, Kong DS, Kim Y, Kim MH, Jin J, Suh YL, Seol HJ, Shin CS, Lee JI, Kim JH, Song SY, Nam DH. Identification of prognostic biomarkers for glioblastomas using protein expression profiling. Int J Oncol. 2012 Apr;40(4):1122-32. (**co-first author**)
64. Kim Y, Kim KH, Lee J, Lee YA, Kim M, Lee SJ, Park K, Yang H, Jin J, **Joo KM**, Lee J, Nam DH. Wnt activation is implicated in glioblastoma radioresistance. Lab Invest. 2012 Mar;92(3):466-73.
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67. Cho YJ, Lee JC, Kang BG, An J, Song HS, Son O, Nam DH, Cha CI, **Joo KM**. Immunohistochemical study on the expression of calcium binding proteins (calbindin-D28k, calretinin, and parvalbumin) in the cerebral cortex and in the hippocampal region of nNOS knock-out(-/-) mice. Anat Cell Biol. 2011 Jun;44(2):106-15.
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71. Lee SJ, Kim Y, Jo MY, Kim HS, Jin Y, Kim SU, Jin J, **Joo KM**, Nam DH. Combined treatment of tumor-tropic human neural stem cells containing the CD suicide gene effectively targets brain tumors provoking a mild immune response. Oncol Rep. 2011 Jan;25(1):63-8. (**co-corresponding author**)
72. Jin J, **Joo KM**, Lee SJ, Jo MY, Kim Y, Jin Y, Kim JK, Ahn JM, Yoon MJ, Lim J, Nam DH. Synergistic therapeutic effects of cytokine-induced killer cells and temozolomide against glioblastoma. Oncol Rep. 2011 Jan;25(1):33-9. (**co-first author**)
73. Lee JC, Jin Y, Jin J, Kang BG, Nam DH, **Joo KM**, Cha CI. Functional neural stem cell isolation from brains of adult mutant SOD1 (SOD1(G93A)) transgenic amyotrophic lateral sclerosis (ALS) mice. Neurol Res. 2011 Jan;33(1):33-7. (**co-corresponding author**)
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75. Lee JC, Cho YJ, Kim J, Kim N, Kang BG, Cha CI, **Joo KM**. Region-specific changes in the immunoreactivity of vasoactive intestinal peptide and pituitary adenylate cyclase-activating polypeptide receptors (VPAC2, and PAC1 receptor) in the aged rat brains. Brain Res. 2010 Sep 10;1351:32-40.
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78. Jin J, **Joo KM**, Nam Y, Kim DH, Lee SJ, Jo MY, Jin Y, Kim HS, Seo SW, Kim SJ, Nam DH, Kim WS. Schedule-dependent synergistic effect of rituximab on methotrexate chemotherapy against lymphoma of the central nervous system. Exp Ther Med. 2010 Nov;1(6):943-946. (**co-first author**)
79. **Joo KM**, Nam DH. Prospective identification of cancer stem cells with the surface antigen CD133. Methods Mol Biol. 2009;568:57-71.
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83. **Joo KM**, Song SY, Park K, Kim MH, Jin J, Kang BG, Jang MJ, Lee GS, Kim MS, Nam DH. Response of brain specific microenvironment to P-glycoprotein inhibitor: An important factor determining therapeutic effect of P-glycoprotein inhibitor on brain metastatic tumors. Int J Oncol. 2008 Oct;33(4):705-12.
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85. Chung YH, **Joo KM**, Kim DJ, Kim SS, Kim KY, Lee WB, Cha CI. Immunohistochemical study on the distribution of glycogen synthase kinase 3alpha in the central nervous system of SOD1(G93A) transgenic mice. Neurol Res. 2008 Nov;30(9):926-31. (**co-first author**)
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1. **Korea Patent Registration**
   1. No. 101956982 “Use of disulfiram for radiosensitizer in brain cancer” Issued Mar 5, 2019 **Joo KM** and 3 other people
   2. No. 101910269 “Method for Separating Neural Stem Cell Derived from Human Brain Tissue Having High Efficiency” Issued Oct 15, 2018 **Joo KM** and 4 other people
   3. No. 101740030 “Single-chain Fv Antibody Library, Method for Preparing Thereof and Screening Method of Single-chain Fv Antibody by Using the Same” Issued May 19, 2017 **Joo KM** and 5 other people
   4. No. 101592305 “Limiting Dilution Assay for Screening of Patient-specific Anti-cancer Agents” Issued Feb 25, 2015 **Joo KM** and 2 other people
   5. No.101536668 “Antibodies cross-reactive to Human and Mouse c-Met and Uses thereof” Issued Jul 08, 2015 **Joo KM** and 4 other people
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2. **Korea Patent Application**
   1. No. 1020180031101 “Method of isolating and culturing for neural stem Cell” Issued Mar 16, 2018. **Joo KM** and 1 other people
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3. **Foreign Patent Registration**
   1. No. 9750826 “METHOD FOR PREPARING PATIENT-SPECIFIC GLIOBLASTOMA ANIMAL MODEL, AND USES THEREOF” Issued Sep 05, 2015 **Joo KM**
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   2. No. 138635636 “PERSONALIZED ANTI-CANCER AGENT SCREENING SYSTEM” Issued Jun 11, 2015 K **Joo KM** and 1 other people
   3. No. 11201504628U “PERSONALIZED ANTI-CANCER AGENT SCREENING SYSTEM” Issued Jun 11, 2015 **Joo KM** and 1 other people
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   8. No. 2013800445032 “METHOD FOR PREPARING PATIENT-SPECIFIC GLIOBLASTOMA ANIMAL MODEL, AND USES THEREOF” Issued Feb 25, 2015 **Joo KM** and 2 other people
   9. No. 138072590 “METHOD FOR PREPARING PATIENT-SPECIFIC GLIOBLASTOMA ANIMAL MODEL, AND USES THEREOF” Issued Dec 18, 2014 **Joo KM** and 2 other people
   10. No. PCTKR2014005461 “PHARMACEUTICAL COMPOSITION CONTAINING TP12 EXPRESSION INHIBITOR OR ACTIVITY INHIBITOR AS ACTIVE INGREDIENT FOR PREVENTING OR TREATING RENAL CELL CANCER” Issued Jun 20, 2014 Kyeung Min Joo and 4 other people
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   13. No. PCT/KR/2011/000730 “"METHOD FOR PROLIFERATING STEM CELLS USING GENES ACTIVATING NOTCH SIGNALING” Issued Feb 01, 2011 **Joo KM** and 3 other people
   14. No. PCT/KR/2018/002253 “Method of isolating and culturing for neural stemCell” Issued Feb 23, 2018. **Joo KM** and 4 other people

**Membership:**

American Association for Cancer Research (AACR)

- 2010-present: Active member

- 2007-2009: Associate member

International Society for Stem Cell Research (ISSCR)

- 2010-present: Active member

- 2008-2009: Associate member