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Education

1998.03-2004.02	M.D.	Ewha Womans University
2004.03-2009.08	Ph.D.	Ewha Womans University

Professional Experience

2005.03-2006.02	Intern	Ewha Womans University Hospital
2009.08-2010.09	Senior Researcher	NIH, Seoul, Korea
2010.09-2012.08	Postdoc	Weizmann Institute of Science, Rehovot, Israel
2012.09-2018.08	Assistant professor	Ewha Womans University
2018.09-Present	Associate professor	Ewha Womans University

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Publications

Yoon HS, Kim HY, Cho KA, Kim YH, Woo SY, Kim HS, Kang JL, Ryu KH, **Park JW**. Procollagen C-Endopeptidase Enhancer 2 Secreted by Tonsil-Derived Mesenchymal Stem Cells Increases the Oxidative Burst of Promyelocytic HL-60 Cells. Biology (Basel). 2022 Feb 7;11(2):255.

Lee HJ, Kim YH, Choi DW, Cho KA, **Park JW**, Shin SJ, Jo I, Woo SY, Ryu KH. Tonsil-derived mesenchymal stem cells enhance allogeneic bone marrow engraftment via collagen IV degradation. Stem Cell Res Ther. 2021;12(1):329.

Shin SH, Cho KA, Yoon HS, Kim SY, Kim HY, Pewzner-Jung Y, Jung SA, Park WJ, Futerman AH, **Park JW**. Ceramide Synthase 2 Null Mice Are Protected from Ovalbumin-Induced Asthma with Higher T Cell Receptor Signal Strength in CD4+ T Cells. Int J Mol Sci. 2021;22(5):2713.

Shin SH, Kim HY, Yoon HS, Park WJ, Adams DR, Pyne NJ, Pyne S, **Park JW**. A Novel Selective Sphingosine Kinase 2 Inhibitor, HWG-35D, Ameliorates the Severity of Imiquimod-Induced Psoriasis Model by Blocking Th17 Differentiation of Naïve CD4 T Lymphocytes. Int J Mol Sci. 2020;21(21):8371.

Kim HY, Lee Y, Yoon HS, Kim YH, Cho KA, Woo SY, Kim HS, Park BY, Jung SC, Jo I, Park WJ, **Park JW***, Ryu KH*. A Novel Method to Differentiate Tonsil-Derived Mesenchymal Stem Cells In Vitro into Estrogen-Secreting Cells. Tissue Eng Regen Med. 2021;18(2):253-264.

Park WJ, **Park JW**. The role of sphingolipids in endoplasmic reticulum stress. FEBS Lett. 2020;594(22):3632-3651.

Kim YR, Lee EJ, Shin KO, Kim MH, Pewzner-Jung Y, Lee YM, **Park JW***, Futerman AH, Park WJ*. Hepatic triglyceride accumulation via endoplasmic reticulum stress-induced SREBP-1

activation is regulated by ceramide synthases. Exp Mol Med. 2019;51(11):1-16.

Kim YH, Cho KA, Lee HJ, Park M, Kim HS, **Park JW**, Woo SY, Ryu KH. Identification of WNT16 as a Predictable Biomarker for Accelerated Osteogenic Differentiation of Tonsil-Derived Mesenchymal Stem Cells In Vitro. Stem Cells Int. 2019;2019:8503148.

Oh SY, Choi YM, Kim HY, Park YS, Jung SC, **Park JW**, Woo SY, Ryu KH, Kim HS, Jo I. Application of Tonsil-Derived Mesenchymal Stem Cells in Tissue Regeneration: Concise Review. Stem Cells. 2019;37(10):1252-1260.

Lee Y, Shin SH, Cho KA, Kim YH, Woo SY, Kim HS, Jung SC, Jo I, Jun HS, Park WJ, **Park JW***, Ryu KH*. Administration of Tonsil-Derived Mesenchymal Stem Cells Improves Glucose Tolerance in High Fat Diet-Induced Diabetic Mice via Insulin-Like Growth Factor-Binding Protein 5-Mediated Endoplasmic Reticulum Stress Modulation. Cells. 2019;8(4):368.

Shin SH, Cho KA, Hahn S, Lee Y, Kim YH, Woo SY, Ryu KH, Park WJ, **Park JW**. Inhibiting Sphingosine Kinase 2 Derived-sphingosine-1-phosphate Ameliorates Psoriasis-like Skin Disease via Blocking Th17 Differentiation of Naïve CD4 T Lymphocytes in Mice. Acta Derm Venereol. 2019;99(6):594-601.

Kim MH*, **Park JW***, Lee EJ, Kim S, Shin SH, Ahn JH, Jung Y, Park I, Park WJ. C16-ceramide and sphingosine 1-phosphate/S1PR2 have opposite effects on cell growth through mTOR signaling pathway regulation. Oncol Rep. 2018;40(5):2977-2987.

Kim YR, Volpert G, Shin KO, Kim SY, Shin SH, Lee Y, Sung SH, Lee YM, Ahn JH, Pewzner-Jung Y, Park WJ, Futerman AH, **Park JW**. Ablation of ceramide synthase 2 exacerbates dextran sodium sulphate-induced colitis in mice due to increased intestinal permeability. J Cell Mol Med. 2017;21(12):3565-3578.

Park JW, Park WJ, Futerman AH. Ceramide synthases as potential targets for therapeutic intervention in human diseases. Biochim Biophys Acta. 2014;1841(5):671-81.

Park WJ*, **Park JW***, Erez-Roman R, Kogot-Levin A, Bame JR, Tirosh B, Saada A, Merrill AH Jr, Pewzner-Jung Y, Futerman AH. Protection of a ceramide synthase 2 null mouse from drug-induced liver injury: role of gap junction dysfunction and connexin 32 mislocalization. J Biol Chem. 2013;288(43):30904-16.

Park JW, Park WJ, Kuperman Y, Boura-Halfon S, Pewzner-Jung Y, Futerman AH. Ablation of very long acyl chain sphingolipids causes hepatic insulin resistance in mice due to altered detergent-resistant membranes. Hepatology. 2013;57(2):525-32.

Park JW, Pewzner-Jung Y. Ceramide synthases: reexamining longevity. Handb Exp Pharmacol. 2013;(215):89-107.

Zigdon H, Kogot-Levin A, **Park JW**, Goldschmidt R, Kelly S, Merrill AH Jr, Scherz A, Pewzner-Jung Y, Saada A, Futerman AH. Ablation of ceramide synthase 2 causes chronic oxidative stress due to disruption of the mitochondrial respiratory chain. J Biol Chem. 2013;288(7):4947-56