


BIOGRAPHICAL SKETCH

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	POSITION TITLE Professor			
INSTITUTION AND LOCATION		DEGREE	YEAR(s)	FIELD OF STUDY
Kyungpook National University, Daegu, Korea		B.Sc	1976-1978	College of Liberal Arts and Sciences
Kyungpook National University, Daegu, Korea		M.D.	1982	School of Medicine
Kyungpook National University, Daegu, Korea		M.S.	1985	School of Medicine
Kyungpook National University, Daegu, Korea		Ph.D.	1988	School of Medicine

A. Positions and Employments

- Rotating Internship, Dongsan Medical Center, Daegu 1982-1983
- Residency in Internal Medicine, Dongsan Medical Center, Daegu 1983-1986
- Visiting Scholar in Joslin Diabetes Center, Harvard Medical School, Boston 1987-1988
- Research fellow in Joslin Diabetes Center, Harvard Medical School, Boston 1995-1996
- Professor, Depart. of Internal Medicine, Keimyung University Medical School, Daegu 1998-2005
- Staff in Medicine, Charge in Endocrine Section in Dong-san Medical Center, Daegu 1998-2005
- Professor, Depart. of Int. Med., Kyungpook National University Medical School, Daegu 2005-present
- Staff in Med., Charge in Endo. Sec. in Kyungpook National University Hospital, Daegu 2005-2011
- Principal Investigator, National Research Laboratory, Kyungpook National University, Daegu 2006-2011
- Principal Investigator, World Class University Project, Kyungpook National University, Daegu 2008-2013
- Director, Research Institute of Aging and Metabolism, Kyungpook National University, Daegu 2009-present
- Chief of Internal medicine, Kyungpook National University Hospital, Daegu 2010-2012
- Director, Center of Senior health, Kyungpook National university Hospital, Daegu 2009-2010
- Director, Bio-Medical Research Institute, Kyungpook National University Hospital, Daegu 2012-2014
- Vice Director, Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Diseases, Kyungpook National University Hospital, Daegu 2011-2015
- Director, Leading-edge Research Center for Drug Discovery and Development for Diabetes and Metabolic Diseases, Kyungpook National University Hospital, Daegu 2015-present

B. Professional activities

- Editorial board, International Journal of Diabetes Research 2016-present
- Editorial board, The World Journal of hypertension 2016-present
- Senior Editor, Journal of Endocrinology & Journal of Molecular Endocrinology 2014-present

- Editor, Experimental & Molecular Medicine 2012-present
- Associate Editor, Journal of Diabetes Investigation 2011-present
- Associate Editor, Journal of Diabetes Investigation 2011-present
- Advisor of Daegu Dementia Management Center 2012-present
- Vice president, Korean Endocrine society 2013-2013
- Editorial Board, Diabetes & Metabolism Journal 2011-2011
- Vice president, Korean Diabetes Association 2012-2013
- Member of National Academy of Medicine of Korea 2012-present
- Member of Korean Internal medicine 1985-present
- Councilor of Korean Diabetes Association 1985-present
- Member of Korean Endocrine Society 1985-present
- Member of Korean Society of Biochemical and Molecular biology 1985-present
- Member of American Diabetic Association 1985-present

C. **Publications**

- [1] Leem J, Lee IK. Mechanisms of Vascular Calcification: The Pivotal Role of Pyruvate Dehydrogenase Kinase 4. *Endocrinology and Metabolism Endocrinol Metab (Seoul)*. 2016 Mar;31(1):52-61.
- [2] Lee SJ, Jeong JY, Oh CJ, Park S, Kim JY, Kim HJ, Doo Kim N, Choi YK, Do JY, Go Y, Ha CM, Choi JY, Huh S, Ho Jeoung N, Lee KU, Choi HS, Wang Y, Park KG, Harris RA, Lee IK. Pyruvate Dehydrogenase Kinase 4 Promotes Vascular Calcification via SMAD1/5/8 Phosphorylation. *Sci Rep*. 2015 Nov 12; 5:16577. doi: 10.1038/srep16577.
- [3] [3] Kim JH, Choi YK, Do JY, Choi YK, Ha CM, Lee SJ, Jeon JH, Lee WK, Choi HS, Park KG, Lee IK. Estrogen-Related Receptor γ Plays a Key Role in Vascular Calcification Through the Upregulation of BMP2 Expression. *Arterioscler Thromb Vasc Biol*. 2015 Nov;35(11):2384-90.
- [4] [4] Lee SH, Hong JH, Park HK, Park JS, Kim BK, Lee JY, Jeong JY, Yoon GS, Inoue M, Choi GS, Lee IK. Colorectal cancer-derived tumor spheroids retain the characteristics of original tumors. *Cancer Lett*. 2015 Oct 10;367(1):34-42.
- [5] Choi SH, Park S, Oh CJ, Leem J, Park KG, Lee IK. Dipeptidyl peptidase-4 inhibition by gemigliptin prevents abnormal vascular remodeling via NF-E2-related factor 2 activation. *Vascul Pharmacol*. 2015 Oct;73:11-9.
- [6] Karunakaran U, Park SJ, Jun DY, Sim T, Park KG, Kim MO, Lee IK. Non-receptor tyrosine kinase inhibitors enhances β -cell survival by suppressing the PKC δ signal transduction pathway in streptozotocin-induced β -cell apoptosis. *Cell Signal*. 2015 Jun;27(6):1066-74.
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Regulation of systemic energy homeostasis by serotonin in adipose tissues. *Nat Commun.* 2015 Apr 13;6:6794. doi: 10.1038/ncomms7794.

- [8] Park S, Kim JK, Oh CJ, Choi SH, Jeon JH, Lee IK. Scoparone interferes with STAT3-induced proliferation of vascular smooth muscle cells. *Exp Mol Med.* 2015 Mar 6;47:e145
- [9] Byun JK, Choi YK, Kang YN, Jang BK, Kang KJ, Jeon YH, Lee HW, Jeon JH, Koo SH, Jeong WI, Harris RA, Lee IK, Park KG. Retinoic acid-related orphan receptor alpha reprograms glucose metabolism in glutamine-deficient hepatoma cells. *Hepatology.* 2015 Mar;61(3):953-64.
- [10] Kim JH, Bae KH, Choi YK, Go Y, Choe M, Jeon YH, Lee HW, Koo SH, Perfield JW 2nd, Harris RA, Lee IK, Park KG. Fibroblast growth factor 21 analogue LY2405319 lowers blood glucose in streptozotocin-induced insulin-deficient diabetic mice by restoring brown adipose tissue function. *Diabetes Obes Metab.* 2015 Feb;17(2):161-9.
- [11] Bae KH, Min AK, Kim JG, Lee IK, Park KG. Alpha lipoic acid induces hepatic fibroblast growth factor 21 expression via up-regulation of CREBH. *Biochem Biophys Res Commun.* 2014 Dec 12;455(3-4):212-7.
- [12] Ha CM, Park S, Choi YK, Jeong JY, Oh CJ, Bae KH, Lee SJ, Kim JH, Park KG, Jun do Y, Lee IK. Activation of Nrf2 by dimethyl fumarate improves vascular calcification. *Vascul Pharmacol.* 2014 Oct;63(1):29-36.
- [13] Min AK, Bae KH, Jung YA, Choi YK, Kim MJ, Kim JH, Jeon JH, Kim JG, Lee IK, Park KG. Orphan nuclear receptor Nur77 mediates fasting-induced hepatic fibroblast growth factor 21 expression. *Endocrinology.* 2014 Aug;155(8):2924-31
- [14] Jung GS, Jeon JH, Jung YA, Choi YK, Kim HS, Kim JG, Park KG, Kim MK, Lee IK. Clusterin/apolipoprotein J attenuates angiotensin II-induced renal fibrosis. *PLoS One.* 2014 Aug 22;9(8):e105635.
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- [17] Lee IK. The role of pyruvate dehydrogenase kinase in diabetes and obesity. *Diabetes Metab J.* 2014 Jun;38(3):181-6.
- [18] Park S, Mathis KW, Lee IK. The physiological roles of apolipoprotein J/clusterin in metabolic and cardiovascular diseases. *Rev Endocr Metab Disord.* 2014 Mar;15(1):45-53.
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- [27] Oh CJ, Kim JY, Choi YK, Kim HJ, Jeong JY, Bae KH, Park KG, Lee IK. Correction: Dimethylfumarate Attenuates Renal Fibrosis via NF-E2-Related Factor 2-Mediated Inhibition of Transforming Growth Factor- β /Smad Signaling. *PLoS One* 2012;7(10):e45870.
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