

CURRICULUM VITAE

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Date of Birth: August 17, 1962

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Education

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| 1981-1985 | Department of Biology, Kyung Hee University, Korea (B.S.) |
| 1985-1990 | Graduate program in Cell & Developmental Biology Rutgers University & UMDNJ-Medical School, USA (Joint Ph.D.) |

Academic experience

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| 1990-1991 | Harvard Medical School, Dana-Farber Cancer Institute (Post-doctoral fellow) |
| 1991-1995 | Harvard Medical School, Massachusetts General Hospital (Post-doctoral fellow) |
| 1995-1995 | Korea Research Institute of Bioscience and Biotechnology (Foreign Invited scientist) |
| 1996-present | Hormone Research Center, Chonnam National University (Instructor, Assistant Professor, Associate Professor and Full Professor) |
| 2005-present | National Research Laboratory: Orphan Nuclear Receptor Laboratory (Director) |
| 2009-present | Department of Biomedical Sciences, Chonnam National University Medical School (Adjunct Professor) |

Research Interests

1. Regulation of gene transcription by orphan nuclear receptors
2. Role orphan nuclear receptors in hepatic metabolism
3. Role of orphan nuclear receptors in metabolic syndrome
4. Effect of endocrine disruptor on orphan nuclear receptor action

Editorial Board Member

1. Journal of Biological Chemistry (2008-2013)
2. World Journal of Biological Chemistry (2009-2013)
3. World Journal of Diabetes (2009-2015)

Member of Academic Society

1. Review Board, National Research Foundation of Korea (2010-2012)
2. American Endocrine Society (2006-2007 and 2008-present)
3. American Society for Biochemistry and Molecular Biology (2006-present)
4. Vice Chairman, Korean Endocrine Society (2009-2010)

Selected papers out of 115 publications

1. Dipanjan Chanda, Yuan-Bin Xie, **Hueng-Sik Choi**. Transcriptional corepressor SHP recruits SIRT1 histone deacetylase to inhibit LRH-1 transactivation. *Nucleic Acid Res.* (in press)

1. Min-Woo Lee, Dipanjan Chanda, Jianqi Yang, Hyunhee Oh, Su Sung Kim, Young-Sik Yoon, Sungpyo Hong, Keun-Gyu Park, In-Kyu Lee, Cheol Soo Choi, Richard W. Hanson, **Hueng-Sik Choi*** and Seung-Hoi Koo* (*co-correspondance). Regulation of hepatic gluconeogenesis by an ER-bound transcription factor, CREBH. *Cell Metabolism* 11:331, 2010

2. Min-Kyung Kim, Dipanjan Chanda, In-Kyu Lee, **Hueng-Sik Choi***, Keun-Gyu Park* (*co-correspondence). Targeting orphan nuclear receptor SHP in the treatment of metabolic diseases. *Expert Opinion on Therapeutic Targets* 14:453, 2010

4. Balachandar Nedumaran, Gwang Sik Kim, Sungpyo Hong, Young-Sil Yoon, Yong-Hoon Kim, Chul-Ho Lee, Young Chul Lee, Seung-Hoi Koo* and **Hueng-Sik Choi***(*co-correspondence). Orphan nuclear receptor DAX-1 acts as a novel corepressor of LXRalpha and inhibits hepatic lipogenesis. *J. Biol. Chem.* 285:9221, 2010

5. Dipanjan Chanda, Tiangang Li, Kwang-Hoon Song, Yong-Hoon Kim, Jeonggu Sim, Chul Ho Lee, John Y.L. Chiang and **Hueng-Sik Choi**. HGF family negatively regulates hepatic gluconeogenesis via induction of orphan nuclear receptor SHP in primary hepatocyte. *J. Biol. Chem.* 284:28510, 2009

6. Yuan-Bin Xie, Jeong-Ho Park, Don-Kyu Kim, Jung Hwan Hwang, Sangmi Oh, Seung Bum Park, Minho Shong, In-Kyu Lee, **Hueng-Sik Choi**. Transcriptional corepressor SMILE recruits SIRT1 to inhibit nuclear receptor ERRgamma transactivation.

J.Biol.Chem. 284:28762, 2009

7.Balachandar Nedumaran, Sungpyo Hong, Yuan-Bin Xie, Yong-Hoon Kim, Woo-Young Seo, Min-Woo Lee, Chul Ho Lee, Seung-Hoi Koo*, and **Hueng-Sik Choi*** (*co-correspondence). DAX-1 acts as a novel corepressor of orphan nuclear receptor HNF4alpha and negatively regulates the gluconeogenic enzyme gene expression. *J.Biol.Chem.* 284:27511, 2009

8.Byung-Chul Jeong, Yong-Soo Lee, In-Ho Bae, Chul-Ho Lee, Hong-In Shin, Hyun-Jung Ha, Renny Franceschi, **Hueng-Sik Choi***, Jeong-Tae Koh* (*co-correspondence). The orphan nuclear receptor SHP is a positive regulator of osteoblastic bone formation. *J Bone Miner Res* 25:262, 2010

9.Yuan-Bin Xie, Balachandar Nedumaran, and **Hueng-Sik Choi**. Molecular characterization of SMILE as a novel corepressor of nuclear receptors. *Nucleic Acids Res.* 37:4100, 2009

10.Dipanjan Chanda, Chul Ho Lee, Yong-Hoon Kim, Jung-Ran Noh, Don-Kyu Kim, Ji-Hoon Park, Jung Hwan Hwang, Mi-Ran Lee, Kyeong-Hoon Jeong, In-Kyu Lee, Gi Ryang Kweon, Minhong Shong, Goo-Taeg Oh, John Y.L.Chiang, **Hueng-Sik Choi**. Fenofibrate differentially regulates PAI-1 gene expression via AMPK-dependent induction of orphan nuclear receptor SHP. *Hepatology* 50:880, 2009

11. Byung-Chul Jeong, Yong-Soo Lee, Yun-Yong Park, In-Ho Bae, Don-Kyu Kim, Seung-Hoi Koo, Hong-Ran Choi, Sun-Hun Kim, Renny T. Franceschi, Jeong-Tae Koh*, and **Hueng-Sik Choi*(*co-correspondence)**. The orphan nuclear receptor ERRgamma negatively regulates BMP2-induced osteoblast differentiation and bone formation. *J.Biol.Chem.* 284:14211, 2009

12.Yuan-Bin Xie, Ok-Hee Lee, Balachander Nedumaran, Hyun-A Seong, Kyeong-Min Lee, Hyunjung Ha, In-Kyu Lee, Yungdae Yun, and **Hueng-Sik Choi**. SMILE, a new orphan nuclear receptor SHP interacting protein, regulates SHP-repressed estrogen receptor transactivation. *Biochemical J.* 416:463,2008

13. Dipanjan Chanda, Sung-Jin Kim, In-Kyu Lee, Minhong Shong and **Hueng-Sik Choi**. Sodium arsenite induces orphan nuclear receptor SHP gene expression via AMP-activated protein kinase to inhibit gluconeogenic enzyme gene expression. *Am J Physiol Endocrinol Metab.* 295:E368, 2008

14. Yong-Soo Lee, Don-Kyu Kim, Yong Deuk Kim, Ki Cheol Park, Minhong Shong, Hyun-A Seong, Hyun Jung Ha, **Hueng-Sik Choi**. Orphan nuclear receptor SHP interacts with and represses hepatocyte nuclear factor-6 (HNF-6) transactivation.

Biochem. J. 413:559, 2008

15. Dipanjan Chanda, Jeong-Hoh Park, and **Hueng-Sik Choi**. Molecular Basis of Endocrine Regulation by Orphan Nuclear Receptor Small Heterodimer Partner. *Endocrine J.* 55:253, 2008

16. Gwang Sik Kim, Gha Young Lee, Balachandar Nedumaran, Yun-Yong Park, Kyung Tae Kim, Sang Chul Park, Young Chul Lee, Jae Bum Kim, **Hueng-Sik Choi**. The orphan nuclear receptor DAX-1 acts as a novel transcriptional corepressor of PPARgamma. *Biochem.Biophys.Res.Comm.* 370:264, 2008

17. Yong Deuk Kim, Keun-Gyu Park, Yong-Soo Lee, Yun-Yong Park, Don-Kyu Kim, Balachandar Nedumaran, Won Gu Jang, Won-Jae Cho, Joohun Ha, In-Kyu Lee, Chul-Ho Lee, **Hueng-Sik Choi**. Metformin inhibits hepatic gluconeogenesis through AMP-activated protein kinase dependent regulation of the orphan nuclear receptor SHP. *Diabetes*, 57:306,2008