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Date of Birth: October 1st, 1968

Education and Professional Career

2014. Dec. – present Boditech Med Inc., Korea

Academic team leader(2019)/Covid-19 PM

Marketing team leader (2018)

Principle scientist, R&D Center, Boditech Med. Inc., Korea (2015-2017)

2013.Jan.-2014. Nov. Samsung Medical Center, Korea

Principal Scientist, Translational Research Organization (TRO) director. **Institute for Refractory Cancer Research (IRCR), Samsung Medical Center (SMC), Korea**

2012. Apr. – 2012.Dec. Cha Cancer Institute

Postdoctoral fellow, **Cha Cancer Institute, Korea**

2007 – 2012 Jan. Cancer Institute of New Jersey, USA

Postdoctoral fellow, Section of Urology oncology, **Cancer Institute of New Jersey, USA**

1998 – 2006 Doctor of Philosophy, Rutgers University/University of Medicine and Dentistry of NJ

Graduate program of Molecular Bioscience program (**Rutgers University – University of Medicine and Dentistry of New Jersey joint program**), Advisor: Dr. Steven Shiff

1993-1998 Seoul National University Hospital.

Research fellow, Laboratory of Cell Biology, **Cancer Research Center, Seoul National University College of Medicine, Korea**

1993. M.S. Science Education, Seoul National University, Korea

1991. B.S. Biology Education, Seoul National University, 1991, Seoul, Korea

Biology and education major

Awards

Gallo award, Annual retreat on cancer research in New Jersey, 2009
Gallo award, Annual retreat on cancer research in New Jersey, 2005
Seoul National University Scholarship, Seoul, Korea 1991-1993
Seoul National University, graduated with honor, 1991
Seoul National University full Scholarship, Seoul, Korea 1988-1991

Publications

Kwon SJ, Lee GT, **Lee JH**, Iwakura Y, Kim WJ, Kim IY. Mechanism of pro-tumorigenic effect of BMP-6: Neovascularization involving tumor-associated macrophages and IL-1 α , Prostate. Prostate. 2014 Feb;74(2):121-33.

Jae-Ho Lee, Geun Taek Lee, Seung Hyo Woo, Yun-Sok Ha, Seok Joo Kwon, Wun-Jae Kim, and Isaac Yi Kim. Bone Morphogenetic Protein-6 in Renal Cell Carcinoma Promotes Tumor Proliferation via M2 Polarization of Tumor-Infiltrating Macrophages through Interleukin-10. Cancer Res. 2013 Jun 15;73(12):3604-14.

Jae-Ho Lee, Geun Taek Lee, Seok Joo Kwon, Jeongyun Jeong, Shilpa Lamba, and Isaac Yi Kim. CREBZF, a Novel Smad8 Binding Protein. Mol Cell Biochem. 2012 Sep;368(1-2):147-53

Lee GT, Jung YS, **Lee JH**, Kim WJ, Kim IY. Bone morphogenetic protein 6-induced interleukin-1 β expression in macrophages requires PU.1/Smad1 interaction. Mol Immunol. 2011 Jul;48(12-13):1540-7. Epub 2011 May 14

Lee GT, Kwon SJ, **Lee JH**, Jeon SS, Jang KT, Choi HY, Lee HM, Kim WJ, Lee DH, Kim IY. Macrophages induce neuroendocrine differentiation of prostate cancer cells via BMP6-IL6 Loop. Prostate. 2011 Mar 3. doi: 10.1002/pros.21369.

Lee GT, Kwon SJ, **Lee JH**, Jeon SS, Jang KT, Choi HY, Lee HM, Kim WJ, Kim SJ, Kim IY. Induction of interleukin-6 expression by bone morphogenetic protein-6 in macrophages requires both SMAD and p38 signaling pathways. J Biol Chem. 2010 Dec 10;285(50):39401-8. Epub 2010 Oct 1.

Seok Joo Kwon, Geun Taek Lee, **Jae-Ho Lee**, Wun Jae Kim and Isaac Yi Kim, Bone morphogenetic protein-6 induces the expression of inducible nitric oxide synthase in macrophages, Immunology 2009 Sep;128:e758-65

Hong JH, Lee GT, **Lee JH**, Kwon SJ, Park SH, Kim SJ, Kim IY.

Effect of bone morphogenetic protein-6 on macrophages. *Immunology*. 2009 Sep;128(1 Suppl):e758-65. Epub 2009 Feb 17

Koh CS, Ku JL, Park SY, Kim KH, Choi JS, Kim IJ, Park JH, Oh SK, Chung JK, **Lee JH**, Kim WH, Kim CW, Cho BY, Park JG.

Establishment and characterization of cell lines from three human thyroid carcinomas: Responses to all-trans-retinoic acid and mutations in the BRAF gene. *Mol Cell Endocrinol*. 2007 Jan 29;264(1-2):118-27.

Lee JH, Ku JL, Park YJ, Lee KU, Kim WH, Park JG.

Establishment and characterization of four human hepatocellular carcinoma cell lines containing hepatitis B virus DNA. *World J Gastroenterol*. 1999 Aug;5(4):289-295.

Ku JL, Kim WH, **Lee JH**, Park HS, Kim KH, Sung MW, Park JG.

Establishment and characterization of human laryngeal squamous cell carcinoma cell lines. *Laryngoscope*. 1999 Jun;109(6):976-82.

Won YJ, Park KJ, Kwon HJ, **Lee JH**, Kim JH, Kim YJ, Chun SH, Han HJ, Park JG.

Germline mutations of the APC gene in Korean familial adenomatous polyposis patients. *J Hum Genet*. 1999;44(2):103-8.

Yuan Y, Kim WH, Han HS, **Lee JH**, Park HS, Chung JK, Kang SB, Park JG.

Establishment and characterization of cell lines derived from uterine malignant mixed Mullerian tumor. *Gynecol Oncol*. 1997 Sep;66(3):464-74.

Yuan Y, Kim WH, Han HS, **Lee JH**, Park HS, Chung JK, Kang SB, Park JG.

Establishment and characterization of human ovarian carcinoma cell lines. *Gynecol Oncol*. 1997 Sep;66(3):378-87.

Park JG, Yang HK, Kim WH, Chung JK, Kang MS, **Lee JH**, Oh JH, Park HS, Yeo KS, Kang SH, Song SY, Kang YK, Bang YJ, Kim YH, Kim JP.

Establishment and characterization of human gastric carcinoma cell lines. *Int J Cancer*. 1997 Feb 7;70(4):443-9.

Kang MS, Lee HJ, **Lee JH**, Ku JL, Lee KP, Kelley MJ, Won YJ, Kim ST, Park JG.

Mutation of p53 gene in hepatocellular carcinoma cell lines with HBV DNA. *Int J Cancer*. 1996 Sep 17;67(6):898-902.

Park JG, **Lee JH**, Kang MS, Park KJ, Jeon YM, Lee HJ, Kwon HS, Park HS, Yeo KS, Lee KU, et al. Characterization of cell lines established from human hepatocellular carcinoma. *Int J Cancer*. 1995 Jul 28;62(3):276-82.

Patent

“Method of controlling temperature of reaction mixture in nucleic acid amplification reaction”

Filing date Feb. 03, 2017, Inventor: Byungyeon Won, Jae-Ho Lee and Hanseung Jung. Korean patent /US patent pending