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**Education**

1985. 3-1991. 2	M.D.	Chungnam National University, College of Medicine
1991. 3-1993. 2	M.S.	Chungnam National University Graduate School
1993. 3-1996. 2	Ph.D.	Chungnam National University Graduate School

Professional Experience

2003. 10-Present	Professor	Chungnam National University, College of Medicine
2003. 2-2004. 10	Research Associate	Imperial College London, U.K.
2007. 7-2016. 2	Director	Infection Signaling Network Research Center
2017. 3-Present	Director	Infection Control Convergence Research Center

Academic Society

1997. 9-Present	Member	The Korean Society for Microbiology
1997. 9-Present	Member	The Korean Association of Immunologists

Publications

- Kim S, Lee JY, Shin SG, Kim JK, Silwal P, Kim YJ, Shin NR, Kim PS, Won M, Lee SH, Kim SY, Sasai M, Yamamoto M, Kim JM, Bae JW, Jo EK*. ESRRA (estrogen related receptor alpha) is a critical regulator of intestinal homeostasis through activation of autophagic flux via gut microbiota. *Autophagy*. 2021 Oct;17(10): 2856-2875.
- Paik S, Kim JK, Silwal P, Sasakawa C, Jo EK*. An update on the regulatory mechanisms of NLRP3 inflammasome activation. *Cell Mol Immunol*. 2021 May;18(5):1141-1160.
- Chung Ch, Seo W, Silwal P, Jo EK*. Crosstalks between inflammasome and autophagy in cancer. *J Hematol Oncol*. 2020 Jul 23;13(1): 100.
- Kim TS, Jin YB, Kim YS, Kim S, Kim JK, Lee HM, Suh HW, Choe JH, Kim YJ, Koo BS, Kim HN, Jung M, Lee SH, Kim DK, Chung C, Son JW, Min JJ, Kim JM, Deng CX, Kim HS, Lee SR, Jo EK*. SIRT3 promotes antimycobacterial defenses by coordinating mitochondrial and autophagic functions. *Autophagy* 2019; 17:1-20.
- Kim JK, Kim YS, Lee HM, Jin HS, Neupane C, Kim S, Lee SH, Min JJ, Sasai M, Jeong JH, Choe SK, Kim JM, Yamamoto M, Choy HE, Park JB, Jo EK*. GABAergic signaling linked to autophagy enhances host protection against intracellular bacterial infections. *Nat Commun*. 2018 Oct 10;9(1):4184
- Kim SY, Yang CS, Lee HM, Kim JK, Kim YS, Kim YR, Kim JS, Kim TS, Yuk JM, Dufour CR, Lee SH, Kim JM, Choi HS, Giguère V, Jo EK*. Estrogen-related receptor-alpha is a key coordinator of transcriptional and post-translational activation of autophagy to promote innate host defense. *Autophagy* 2018; 14(1): 152-168.