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- **Current Position:** Research professor, Department of Immunology, Chonbuk National University Medical School, Jeonju, Korea
- **Country:** Korea
- **Educational Background:**
1982 PhD. Chonbuk National University Medical School, Jeonju, Korea
1977 M.D. Chonbuk National University Medical School, Jeonju, Korea
- **Professional Experiences:**
1996-Present Director of Department of Immunology, Chonbuk National University Medical School
1987-1989 Post-doctoral fellowship, Department of Immunology, Oschner Hospital, New Orleans, USA
- **Professional Organizations:**
2005-2006 President of Korean Immunology Association
- **Main Scientific Publications:**
 1. Kim YS, Kim GY, Kim JH, You HJ, Park YM, Lee HK, Yu HC, Chung SM, Jin ZW, Ko HM, Cho BH. Glutamine inhibits lipopolysaccharide-induced cytoplasmic phospholipase A2 activation and protects against endotoxin shock in mouse. *Shock*. 2006, 25:290–294.
 2. Ko HM, Kang NI, Kim YS, Lee YM, Jin ZW, Jung YJ, Im SY, Kim JH, Shin YH, Cho BH, Lee HK. Glutamine preferentially inhibits T-helper type 2 cell-mediated airway inflammation and late airway hyperresponsiveness through the inhibition of cytosolic phospholipase A(2) activity in a murine asthma model. *Clin Exp Allergy*. 2008, 38:357–364.
 3. Ko HM, Oh SH, Bang HS, Kang NI, Cho BH, Im SY, Lee HK. Glutamine protects mice from lethal endotoxic shock via a rapid induction of MAPK phosphatase-1. *J Immunol*. 2009, 182:7957–7962.
 4. Lee CH, Kim HK, Kim JM, Ayush O, Im SY, Oh DK, Lee HK. Glutamine suppresses airway neutrophilia by blocking cytosolic phospholipase A(2) via an induction of MAPK phosphatase-1. *J Immunol*. 2012, 189:5139–5146.
 5. Jin, Z. W., Kim, H. K., Lee, C. H., Jung, S. W., Shin, S. J., Im, S. Y., Cho, B. H., and Lee, H. K. Glutamine suppresses dinitrophenol fluorobenzene-induced allergic contact dermatitis and itching: Inhibition of contact dermatitis by glutamine. *J Dermatol Sci*. 2012, 67: 88-94.
 6. Kim HA, Kim KJ, Yoon SY, Lee HK, Im SY. Glutamine inhibits platelet-activating factor-mediated pulmonary tumour metastasis. *Eur J Cancer*. 2012, 48:1730-1738.
 7. Ayush, C.H. Lee, H.K. Kim, S.Y. Im, B.H. Cho, and H.K. Lee. Glutamine suppresses dinitrofluorobenzene-induced contact dermatitis by deactivating p38 mitogen activated protein kinase via induction of MAPK phosphatase-1. *J Invest Dermatol*. 2013, 133:723-731
 8. Lee CH, Kim HK, Jeong JS, Lee YD, Wu Jin Z, Im SY, Lee HK. Mechanism of glutamine inhibition of cytosolic phospholipase A₂ (cPLA₂): Evidence of physical interaction between glutamine-induced MAPK phosphatase-1 and cPLA₂. *Clin Exp Immunol*. 2015, 180:571-580

9. Otgonzaya Ayush, Zhe Wu Jin, Hae-Kyoung Kim, Yu-Rim Shin, Sunh-Young Im, and Hern-Ku Lee. Glutamine up-regulates MAPK phosphatase-1 induction via activation of Ca²⁺→ERK cascade pathway. *Biochemistry and Biophysics Reports*. 2016, 7:10-19.
10. Kim HK, Song CH, Bae YS, Im SY, Lee HK. Glutamine prevents late phase anaphylaxis via MAPK phosphatase 1-dependent cytosolic phospholipase A₂ deactivation. *Int. Arch. Allergic Clin. Immunol.* 2017, 171:61-70.
11. Im YN, Jeong SY, Youm JY, Lee HK and Im SY. L-Glutamine Attenuates DSS-Induced Colitis via Induction of MAPK Phosphatase-1. *Nutrients*. 2018, In Press.