

CURRICULUM VITAE

PERSONAL

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EDUCATION

PhD: Feb. 1995. Department of Molecular Biology, Seoul National University
MS: Feb. 1989. Department of Zoology, Seoul National University
BS: Feb. 1987. Department of Zoology, Seoul National University

EXPERIENCE

Oct. 2016 – present: CEO, ImmunoMax Ltd.
Aug. 2014 – Jul.2016: Vice dean, College of Life sciences and Biotechnology, KU
Dec. 2009 –Jul. 2011: Chairperson, Division of Life Sciences,
College of Life sciences and Biotechnology, KU

Aug. 2012 – Jul. 2014: Chair, Institutional Animal Care & Use Committee (IACUC), KU
Aug. 2008 – present: Member, Institutional Animal Care & Use Committee (IACUC), KU
Aug. 2002 – present: Director, Geyrim Experimental Animal Resource Center, KU

Mar. 2008 – present: Professor, College of Life sciences and Biotechnology, KU
Sep. 2002 – Feb. 2008: Associate Professor
College of Life sciences and Biotechnology, KU
Sep. 2000 - Aug. 2002: Assistant Professor
Graduate School of Biotechnology, Korea University, Korea
Mar. 1995 – Aug. 2000: Research Staff
Department of Molecular Biology, Princeton University, USA

Membership of professional organizations and society

2005~: The American Association of Immunologists
2001~: The Korean Association of Immunobiologists
2001~: The Zoological Society of Korea
1993~: Korean Society for Molecular and Cellular Biology

Research Area

1. The function of NKT cells in the regulation of immune responses
2. Personalized anti-cancer T cell therapy based on patient's HLA haplotype
3. Enhanced production of virus and biological materials through cell engineering

PUBLICATIONS

74. Yingyu Qin, Jung Hoon Shin, Jeong-Ho Yoon, Se-Ho Park, Embryonic Fibroblasts Promote Antitumor Cytotoxic Effects of CD8⁺ T Cells. *Frontiers in Immunology*. 2018 in press
73. Oh S, Lee H, Shin JH, Hong C, Park SH, Murine CD8+ Invariant Natural Killer T Cells are Negatively Selected by CD1d Expressed on Thymic Epithelial Cells and Dendritic Cells. *Immunol Invest*. 2018 Jan;47(1):89-100
72. Eunbi Yi, Jinsoo Oh, Ngoc Quynh Giao, Soohwan Oh, and Se-Ho Park, Enhanced Production of Enveloped Viruses in BST-2-deficient Cell Lines *Biotechnology and Bioengineering* 2017 Oct;114(10):2289-2297
71. Hyun Jung Park, Sung Won Lee, Dong-Joo Kwon, Seong-II Heo, Se-Ho Park, Sun Young Kim and Seokmann Hong Oral administration of taheebo (*Tabebuia avellanedae* Lorentz ex Griseb.) water extract prevents DSS-induced colitis in mice by up-regulating type II T helper immune responses *BMC Complementary and Alternative Medicine* (2017) 17:448 DOI 10.1186/s12906-017-1952-4
70. In Ah Choi, Ji Yong Choi, Sundo Jung, Fathihah Basri, Se-Ho Park, Eun Young Lee GV1001 immunotherapy ameliorates joint inflammation in a murine model of rheumatoid arthritis by modifying collagen-specific T-cell responses and downregulating antigen-presenting cells *International Immunopharmacology* 46 (2017) 186–193
69. Joo-Young Park, Yuna Jo, Eunhee Ko, Megan A. Luckey, Yoo Kyoung Park, Se-Ho Park, Jung-Hyun Park & Changwan Hong. Soluble γ c cytokine receptor suppresses IL-15 signaling and impairs γ NKT cell development in the thymus *Scientific Reports* | 6:36962 | DOI: 10.1038/srep36962
68. Yoon-Kyung Park, Sundo Jung, and Se-Ho Park Induction of Tolerance against the Arthritogenic Antigen with Type-II Collagen Peptide-Linked Soluble MHC Class II Molecules. *BMB reports* 2015
67. Sung Won Lee, Hyun Jung Park, Sung Ho Jeon, Changjin Lee, Rho Hyun Seong, Se-Ho Park, Seokmann Hong 2015 June. Ubiquitous Over-Expression of Chromatin Remodeling Factor SRG3 Ameliorates the T Cell-Mediated Exacerbation of EAE by Modulating the Phenotypes of both Dendritic Cells and Macrophages *PLOS ONE* | DOI:10.1371/journal.pone.0132329 July 6, 2015
66. Nayoun Kim, Hyunji Lee, Junghoon Shin, Young-Sun Nam, Keon-II Im, Jung-Yeon Lim, Eun-Sol Lee, Young-Nam Kang, Se-Ho Park, Seok-Goo Cho 2015 May. Immune Reconstitution Kinetics following Intentionally Induced Mixed Chimerism by Nonmyeloablative Transplantation *PLOS ONE* | DOI:10.1371/journal.pone.0126318 May 11, 2015
65. Park, Hyun Jung, Lee, Sung Won, Park, Se-Ho, Hong, Seokmann 2016 Apr. iNKT Cells Are Responsible for the Apoptotic Reduction of Basophils That Mediate Th2 Immune Responses Elicited by Papain in Mice Following gamma PGA Stimulation. *PLOS ONE* | DOI:10.1371/journal.pone.0152189 April 6, 2016

64. Sung Won Lee, Hyun Jung Park, Kwang Soo Lee, Se-Ho Park, Soohyun Kim, Sung Ho Jeon, Seokmann Hong 2015. IL32 gamma activates natural killer receptor-expressing innate immune cells to produce IFN γ via dendritic cell-derived IL12. *Biochemical and Biophysical Research Communications* 461 (2015) 86e94
63. Hyun Jung Park,, Sung Won Lee, Hwangseo Park, Se-Ho Park, and Seokmann Hong 2014. A Tubulin Inhibitor, N-(5-Benzyl-1,3-thiazol-2-yl)-3-(furan-2-yl)prop-2-enamide, Induces Anti-inflammatory Innate Immune Responses to Attenuate LPS-mediated Septic Shock. *Bull. Korean Chem. Soc.* 2014, Vol. 35, No. 11 3307
62. Jung Hoon Shin & Se-Ho Park 2014 May. The effect of intracellular trafficking of CD1d on the formation of TCR repertoire of NKT cells. *BMB reports* 2014,47(5):241-248
61. Sung Won Lee, Hyun Jung Park, Se-Ho Park, Nayoung Kim , Seokmann Hong 2014 Jan. Immunomodulatory effect of poly- γ -glutamic acid derived from *Bacillus subtilis* on natural killer dendritic cells. *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS* 2014, 443(2):413-421
60. Jung Hoon Shin and Se-Ho Park, B Cells Promote Th1- Skewed NKT Cell Response by CD1d-TCR. *Interaction Immune Network* 2013;13(5):218-221
59. Jihye Han, Seung Bae Rho, Jae Yeon Lee, Joonbeom Bae, Se Ho Park, Suk Jun Lee, Sang Yeol Lee, Curie Ahn, Jae Young Kim, and Taehoon Chun 2013, NOV. Human Cytomegalovirus (HCMV) US2 Protein Interacts with Human CD1d (hCD1d) and Down-Regulates Invariant NKT (iNKT) Cell Activity. *Mol. Cells* 2013, 36, 455-464
58. Dong Wook Choi, Wooju Na, Mohammad Humayun Kabir, Eunbi Yi, Seonjeong Kwon, Jeonghun Yeom, Jang-Won Ahn, Hee-Hyun Choi, Youngha Lee, Kyoung Wan Seo, Min Kyoo Shin, Se-Ho Park, Hae Yong Yoo, Kyo-ichi Isono, Haruhiko Koseki, Seong-Tae Kim, Cheolju Lee, Yunhee Kim Kwon, and Cheol Yong Choi. 2013 Aug. WIP1, a Homeostatic Regulator of the DNA Damage Response, Is Targeted by HIPK2 for Phosphorylation and Degradation. *Molecular Cell* 2013, 51(3):374-385
57. Sung Won Lee, Hyun Jung Park, **Se-Ho Park** and Seokmann Hong. 2013 Aug. Oral administration of poly- γ -glutamic acid prevents the development of atopic dermatitis in NC/Nga mice. *Experimental dermatology*. 2013, 22(8):561-563
56. Jin Young Huh, Jong In Kim, Yoon Jeong Park, In Jae Hwang, Yun Sok Lee, Jee Hyung Sohn, Sung Kyu Lee, Assim A. Alfadda, Su Sung Kim, Sung Hee Choi, Dong-Sup Lee, Se-Ho Park, Rho Hyun Seong, a Cheol Soo Choi, Jae Bum Kim. 2013 Jan. A novel function of adipocytes in lipid antigen presentation to iNKT cells. *Molecular And Cellular Biology*. 2013 33(2): 328-339.
55. Jung K, Kang M, Park C, Choi YH, Jeon Y, Park SH, Seo SK, Jin D, Choi I. 2012 Nov. Protective role of V-set and immunoglobulin domain-containing 4 expressed on kupffer cells during immune-mediated liver injury by inducing tolerance of liver T- and natural killer T-cells. *HEPATOLOGY* 2012, 56(5):1838-1848

54. Jung Hoon Shin, Ji-Young Park, Young Hyun Shin, Hyunji Lee, Yoon-Kyung Park, Sundo Jung and **Se-Ho Park**. 2012 Mar. Mutation of a positively charged cytoplasmic motif within CD1d results in multiple defects in antigen presentation to NKT cells. *Journal of Immunology*.2012, 188(5) 2235-2243
53. Hyojeong Kim, Taek Joon Yoon, Sung Won Lee, Daesun Yun, Ji Yeon Kim, Kwang-Soon Shin, **Se-Ho Park** and Seokmann Hong. 2012 Jun. Maturation and migration of dendritic cells upon stimulation with heat-killed tumor cells. *Animal Cells and Systems*, 2012, 16(3) 215-223.
52. Won Suck Yoon, Seung Rel Ryu, Seung Seok Lee, Yang Seok Chae, Eun Jae Kim, Ji Hyun Choi, Sejin Oh, Se Ho Park, Ji Tae Choung, Young Yoo, and Yong Keun Park 2012 Mar. Suppression of Inflammation by Recombinant Salmonella typhimurium Harboring CCL22 MicroRNA. *DNA AND CELL BIOLOGY*, 2012, 31(3) 289-296
51. Kyu Heon Oh, Changjin Lee, Sung Won Lee, Sung H. Jeon, **Se-Ho Park**, Rho H. Seong, Seokmann Hong. 2011 Aug. Activation of natural killer T cells inhibits the development of induced regulatory T cells via IFN gamma. *BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS*, 2011, 411(3) 599-606
50. Sundo Jung, Yoon-Kyung Park, Jung Hoon Shin, Hyunji Lee, Gap Ryol Lee, and **Se-Ho Park**. 2010 Aug. The requirement of natural killer T-cells in tolerogenic APCs-mediated suppression of collagen-induced arthritis. *Experimental & Molecular Medicine*, 2010, 42(8) 547-554.
49. Young Hyun Shin, Changwan Hong, Hyunji Lee, Jung Hoon Shin, Seokmann Hong and **Se-Ho Park**. 2010 May. Natural killer T cell-dependent regulation of secondary antigen-specific, conventional CD4⁺ T cell immune responses. *Journal of Immunology*, 2010, 184(10) 5589-5594.
48. Sundo Jung, Yoon-Kyung Park, Hyunji Lee, Jung Hoon Shin, Gap Ryol Lee, and **Se-Ho Park**. 2010 Mar. TGF- β -treated antigen presenting cells suppress collagen-induced arthritis through the promotion of Th2 responses. *Experimental & Molecular Medicine* 2010, 42(3) 187-194.