

Curriculum Vitae

Personal Data

Name: 황수석, Soo Seok Hwang, Ph.D.
Assistant Professor

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Education and Training

- 03/2021 - present **Assistant Professor**
Department of Biochemistry and Molecular Biology, Yonsei University College of Medicine, Seoul, South Korea
- 01/2020 – 01/2021 **Associate Research Scientist**
Immunobiology, Yale University School of Medicine, New Haven, U.S.
(P.I. : Richard A. Flavell, PhD, FRS)
- 01/2015 – 01/2020 **Postdoctoral Fellow,**
Immunobiology, Yale University School of Medicine, New Haven, U.S.
(P.I. : Richard A. Flavell, PhD, FRS)
- 11/2013 – 12/2014 **Research Professor**
Department of Life Science, Sogang University, Seoul, South Korea
- 03/2007 – 08/2013 **Ph.D.**
Molecular Immunobiology, Sogang University, South Korea, Seoul (P.I. : Gap Ryol Lee, PhD)
- 03/2001– 02/2007 **B.S.**
Life Science, Business Administration, (Double major), Sogang University, Seoul, South Korea

Publications (전체연구업적)

First-authored publications

- Hwang SS***, Lim J*, Yu Z, Kong P, Sefik E, Xu H, Harman CCD, Kim LK, Lee GR, Li H, Flavell RA “mRNA destabilization by BTG1 and BTG2 maintains T cell quiescence” *Science* (2020) Mar 13;367(6483):1255-1260. (*co-first) (IF : 41.845)
– Faculty of 1000 Prime Recommended paper
- Jang SW*, **Hwang SS***, Kim HS , Kim MK, Lee WH, Hwang SU, Gwak J, Yew SK, Flavell RA, Lee GR. “Homeobox protein Hhex negatively regulates Treg cells by inhibiting Foxp3 expression and function” *Proceedings of National Academy of Science* (2019) Dec;116(51):25790-25799. (*co-first) (IF : 9.412)
- Hwang SS**, Jang SW, Lee GR. “RHS6-mediated chromosomal looping and nuclear substructure binding is required for Th2 cytokine gene expression” *Biochimica et Biophysica Acta - Gene Regulatory Mechanisms* (2017) Mar;1860(3):383-391 (IF : 3.510)
- Hwang SS***, Jang SW*, Lee KO, Kim HS, Lee GR. “RHS6 coordinately regulates the Th2 cytokine genes by recruiting GATA3, SATB1, and IRF4” *Allergy* (2017) May;72(5):772-782 (*co-first) (IF : 8.706)
- Hwang SS***, Kim LK*, Lee GR, Flavell RA., “Role of OCT-1 and partner proteins in T cell differentiation”, *Biochimica et Biophysica Acta - Gene Regulatory Mechanisms* (2016) Jun;1859(6):825-31 (*co-first) (IF : 3.510)
- Hwang SS**, Jang SW, Kim MK, Kim LK, Kim BS, Kim HS, Kim K, Lee W, Flavell RA, Lee GR. “YY1 inhibits differentiation and function of regulatory T cells by blocking Foxp3 expression and activity” *Nature Communications* (2016) 7:10789 (IF : 12.121)
- Hwang SS**, Kim YU, Lee S, Jang SW, Kim MK, Koh BH, Lee W, Kim J, Souabni A, Busslinger M, Lee GR. "Transcription factor YY1 is essential for regulation of the Th2 cytokine locus and for Th2 cell differentiation" *Proceedings of National Academy of Science* (2012) 110(1):276-81 (IF : 9.412)

8. **Hwang SS**, Kim K, Lee W, Lee GR. "Aberrant expression of IFN- γ in Th2 cells from Th2 LCR-deficient mice" *Biochemical and Biophysical Research Communications* (2012) 424(3):512-8 (IF : 2.985)
9. **Hwang SS**, Kim K, Lee GR. "Defective GATA-3 expression in Th2 LCR-deficient mice" *Biochemical and Biophysical Research Communications* (2011) 410(4):866-71 (IF : 2.985)
10. Koh BH*, **Hwang SS***, Kim JY, Lee W, Kang MJ, Lee CG, Park JW, Flavell RA, Lee GR. "Th2 LCR is essential for regulation of Th2 cytokine genes and for pathogenesis of allergic asthma" *Proceedings of National Academy of Science* (2010) 107(23):10614-9 (*co-first) (IF : 9.412)
11. **Hwang SS**, Lee S, Lee W, Lee GR. "GATA3 regulates Th2 cytokine and ifng loci through interaction with MTA2" *Immunology* (2010) 131(1): 50–58 (IF : 5.016)
12. **Hwang SS**, Kim YU, Lee W, Lee GR. "Differential Expression of Nuclear Receptors in T Helper Cells" *Journal of Microbiology and Biotechnology* (2009) 19(2):208-14 (IF : 1.992)

Co-authored publications

1. Ryu HY, López-Giráldez F, Knight J, **Hwang SS**, Renner C, Kreft SG, Hochstrasser M. "Distinct adaptive mechanisms drive recovery from aneuploidy caused by loss of the Ulp2 SUMO protease." *Nature Communications* (2018) 9(1):5417 (IF : 12.121)
2. Kwon JE, Lee SY, Seo HB, Moon YM, Ryu JG, Jung KA, Jhun JY, Park JS, **Hwang SS**, Kim JM, Lee GR, Park SH, Cho ML "YinYang1 deficiency ameliorates joint inflammation in a murine model of rheumatoid arthritis by modulating Th17 cell activation." *Immunology Letters* (2018) 197:63-69. (IF : 3.276)
3. Kim HS, Jang SW, Lee W, Kim K, Sohn H, **Hwang SS**, Lee GR "PTEN drives Th17 cell differentiation by preventing IL-2 production." *Journal of Experimental Medicine* (2017) 214(11):3381-3398. (IF : 11.742)
4. Jang SW, **Hwang SS**, Kim HS, Lee KO, Lee W, Kim KW, Lee GR "Casein kinase 2 is a critical determinant of Th17 versus Treg cell differentiation" *Experimental & Molecular Medicine* (2017) 49(9):e375. (IF : 5.418)
5. Lee W, Kim HS, **Hwang SS**, Lee GR "Transcription factor Batf3 inhibits differentiation of regulatory T cells in the periphery" *Experimental & Molecular Medicine* (2017) 49(11):e393 (IF : 5.418)
6. Kim BS, Tilstam PV, Springenberg-Jung K, Boecker AH, Schmitz C, Heinrichs D, **Hwang SS**, Stromps JP, Ganse B, Kopp R, Knobe M, Bernhagen J, Pallua N, Bucala R "Characterization of adipose tissue macrophages and adipose-derived stem cells in critical wounds." *PeerJ* (2017) Jan 4;5:e2824. (IF : 2.379)
7. Kim BS, Tilstam PV, **Hwang SS**, Simons D, Schulte W, Leng L, Sauler M, Ganse B, Averdunk L, Kopp R, Stoppe C, Bernhagen J, Pallua N, Bucala R "D-dopachrome tautomerase in adipose tissue inflammation and wound repair." *Journal of Cellular and Molecular Medicine* 2017 Jan;21(1):35-45. (IF : 4.486)
8. Ryu HY, Wilson NR, Mehta S, **Hwang SS**, Hochstrasser M. "Loss of the SUMO protease Ulp2 triggers a specific multichromosome aneuploidy." *Genes & Development*. 2016 Aug 15;30(16):1881-94. (IF : 9.527)
9. Kim BS, Gaul C, Paul NE, Dewor M, Stromps JP, **Hwang SS**, Nourbakhsh M, Bernhagen J, Rennekampff HO, Pallua N. "The Effect of Lipoaspirates on Human Keratinocytes." *Aesthetic Surgery Journal*. (2016) Sep;36(8):941-51. (IF : 3.799)
10. Park HJ, Kim DH, Choi JY, Kim WJ, Kim JY, Senejani AG, **Hwang SS**, Kim LK, Tobiasova Z, Lee GR, Craft J, Bothwell AL, Choi JM. "PPAR γ negatively regulates T cell activation to prevent follicular helper T cells and germinal center formation" *PLOS ONE* (2014) (IF : 2.740)
11. Williams A, Lee GR, Spilianakis CG, **Hwang SS**, Eisenbarth SC, Flavell RA. "Hypersensitive site 6 of the Th2 locus control region is essential for Th2 cytokine expression" *Proceedings of National Academy of Science* (2013) 110(17):6955-60 (IF : 9.412)
12. Kim K, Kim YU, Koh BH, **Hwang SS**, Kim SH, Lépine F, Cho YH, Lee GR. "HHQ and PQS, two Pseudomonas aeruginosa quorum-sensing molecules, down-regulate the innate immune responses through the nuclear factor-kB pathway" *Immunology* (2009) 129(4):578-88 (IF : 5.016)

Honors and Fellowships

- 10/2020 Invited speaker, Cold Spring Harbor Laboratory Meeting (CSHL), U.S.A.
- 05/2020 Speaker, Yale Korean Bioscience Society, (YKBS), U.S.A
- 05/2016 Speaker, Yale Korean Bioscience Society, (YKBS), U.S.A
- 04/2017 Excellent Article Awards, The Korean Association of Immunologists, South Korea.
- 10/2013 Excellent Thesis Awards, Korean Society for Molecular and Cellular Biology (KSMCB), South Korea.
- 02/2011 Excellent Researcher Awards, BK21, Sogang University, South Korea.
- 06/2017 KASBP-Hanmi Fellowship, Korean American Society in Biotech and Pharmaceuticals (KASBP), U.S.A.
- 2015 - 2017 Leslie Warner Fellowship, Yale Cancer Center, U.S.A.
- 2008 – 2012 Sogang BK21 Fellowships, BK21, Sogang University, South Korea.
- 2009 – 2010 Seoul Scholarship, Seoul Scholarship Foundation, South Korea.
- 2008 – 2009 Lotte Scholarship, Lotte Foundation, South Korea.
- 2005 – 2006 Albatross Scholarship, Sogang University, South Korea.
- 2006 Sogang Alumni Scholarship, Sogang Alumni, South Korea.
- 2004 Excellent Student Scholarship, Sogang University, South Korea.

Research Grant

- 09/2013 – 01/2015 Research Fellow Grant, National Research Foundation of Korea (NRF), South Korea.

Other Experiences

- 2007 - 2010 Teaching Assistant, Department of Life-Science, Sogang University, South Korea.
- 2006 - Present Alpha Sigma Nu Membership, Jesuit, Italy
(Honor society, only permitted to top 1% students, Selection to Alpha Sigma Nu is the highest honor awarded on a Jesuit campus)
- 2005 – 2007 Undergraduate Representative, Department of Life-Science, Sogang University, South Korea.