

Curriculum Vitae

Name & Title Jeoung-Sook Shin, Ph.D.
Associate Professor
UCSF Department of Microbiology and Immunology
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Education

1988-93 B.Sc. Seoul National University, Seoul, Korea (Chemistry)
1993-95 M.Sc. Seoul National University, Seoul, Korea (Chemistry)
1997-02 Ph.D. Duke University, Durham, NC, US (Pathology)

Professional Training

Post-Doctoral Research Training:

2002-03 Postdoctoral Associate, Duke University, Department of Pathology
2003-08 Postdoctoral Associate, Yale University, Department of Cell Biology

Academic Appointment

2008-14 Assistant Professor, Department of Microbiology and Immunology, Sandler Asthma Basic Research Center, University of California, San Francisco, CA
2014- Associate Professor, Department of Microbiology and Immunology, Sandler Asthma Basic Research Center, University of California, San Francisco, CA

Professional Awards & Special Recognitions

Awards & Honors

1999 The Best Research Student Award in the Department of Pathology, 9th Graduate Student Symposium, Duke University
2004 Jane Coffin Childs Memorial Fund Research Fellowship Award
2007 Korea Ministry of Science and Technology Award
2009 Sandler Innovative Award in Asthma Research
2009 Cancer Research Institute Investigator Award
2010 American Heart Association Scientist Development Award
2017 Clinical and Translational Science Institute's Catalyst Award

Invited talk

1999 American Academy of Allergy Asthma & Immunology (AAAAI) Annual Meeting, Orlando, FL
2003 Keystone Symposia, Dendritic cells, Keystone, CO
2003 Korea Advanced Institute of Science and Technology, Department of Biological Sciences, Taejon, Korea
2007 Keystone Symposia, Mast cells and Basophils, Copper Mountain, CO
2007 Duke University, Department of Immunology, Durham, NC
2012 Allergy Drug Discovery and Development Conference, San Diego, CA
2012 Seoul National University, Department of Biological Science, Seoul, Korea

- 2013 Keystone Symposia, Understanding Dendritic Cell Biology to Advance Disease Therapies, Keystone, CO
- 2014 US-Korea Conference 2014, San Francisco, CA
- 2015 American Academy of Allergy Asthma & Immunology (AAAAI) Annual Meeting, Houston, TX

Teaching

- 2009 - UCSF School of Pharmacy and School of Dentistry
Immunology (Immune Tolerance, Autoimmunity, Immunodeficiency, T Cell Development, B Cell Immunity, and MHC genetics and function)

Service to Professional publication and organization

Peer Review

Journal of Cell Biology, Journal of Experimental Medicine, The Wellcome Trust Research Training Fellowship Program, European Journal of Immunology, ACS Chemical Biology, PNAS, KSEA Young Investigator Award

Professional Societies

- 2009 - 2010 American Thoracic Society, Member
- 2011 American Society of Cell Biology, Member
- 2011 - American Association of Immunologists, Member
- 2015 - Association of Korean Immunologists in America, serving as a treasurer since 2017

NIH service

- 2017 ZRG1 IMM-T90 study section

Bibliography

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2. **Shin, JS**, Gao, Z, Abraham, SN. Involvement of cellular caveolae in bacterial entry into mast cells, *Science.* 289:785-8, 2000
3. **Shin, JS**, Abraham, SN. Glycosylphosphatidylinositol-anchored receptor-mediated bacterial endocytosis, *FEMS Microbiol Lett.*197:131-8, 2001.
4. **Shin JS**, Abraham SN. Co-option of endocytic functions of cellular caveolae by pathogens. *Immunology,* 102:2-7, 2001
5. **Shin JS**, Abraham SN. Caveolae as portals of entry for microbes. *Microbes Infect.* 3:755-61, 2001
6. **Shin JS**, Abraham SN. Cell biology. Caveolae--not just craters in the cellular landscape. *Science.* 293:1447-8, 2001.
7. Abraham S, **Shin JS**, Malaviya R. Type 1 fimbriated Escherichia coli-mast cell interactions in cystitis. *J Infect Dis.*183 Suppl 1:S51-5, 2001
8. Duncan MJ, **Shin JS**, Abraham SN. Microbial entry through caveolae: variations on a theme. *Cell Microbiol.* 4: 783-91, 2002
9. Duncan, MJ, Lee, G, **Shin, JS**. Abraham SN. Bacterial penetration of bladder epithelium through lipid rafts, *J Biol Chem.* 279: 18944-51, 2004
10. **Shin, JS**, Shelburne, CP, Jin, C, LeFurgey, EA, Abraham, SN. Harboring of particulate allergens within secretory compartments by mast cells following IgE/FcεRI-lipid raft mediated phagocytosis, *J Immunol.* 177:5791-5800, 2006
11. **Shin, JS**, Ebersold, M, Pypaert, M, Delamarre, L, Hartley, A, and Mellman, I. Surface expression of MHC class II in dendritic cells is controlled by regulated ubiquitination, *Nature.* 444:115-8, 2006

12. Bloom, O, Unternaehrer, JJ, Jiang, A, **Shin, JS**, Delamarre, L, Allen, P, and Mellman, I. Spinophilin participates in information transfer at immunological synapses, *J Cell Biol.* 181:203-11, 2008
13. Baravalle, G, Park, H, McSweeney, M, Ohmura-Hoshino, M, Matsuki, Y, **Shin, JS**. Ubiquitination of CD86 is a key mechanism in regulating antigen presentation by dendritic cells, *J Immunology.* 187:2966, 2011
14. Ma, JK, Platt MY, Eastham-Anderson, J, **Shin, JS***, and Mellman, I*. MHC class II distribution in dendritic cells and B cells is determined by ubiquitin chain length, *PNAS.* 109:8820, 2012
***Shin, JS** and Mellman, I contributed equally to this work
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16. Greer, A, Wu, N, Putnam, A, Woodruff, P, Wolters, P, Kinet, JP, and **Shin, JS**. Serum IgE clearance is facilitated by human FcεRI internalization. *J Clin Invest,* 124:1187, 2014
17. Baravalle, G, Greer, A, LaFlam, TN, and **Shin, JS**. Antigen-conjugated human IgE induces antigen-specific T cell tolerance in a humanized mouse model, *J Immunology,* 192:3280, 2014
18. Eggel, A, Baravalle, G, Hobi, G, Kim, B, Buschor, P, Forrer, P, **Shin, JS**, Vogel, M, Stadler, BM, Dahinden, CA, and Jardetzky, TS. Accelerated dissociation of IgE:FcεRI complexes by disruptive inhibitors actively desensitizes allergic effector cells, *J of Allergy and Clinical Immunol,* 133:1709, 2014
19. Greer, AM, Matthay, MA, Kukreja, J, Bhakta, NR, Nguyen, CP, Wolters, PJ, Woodruff, PG, Fahy, JV, and **Shin, JS**. Accumulation of BDCA1⁺ dendritic cells in interstitial fibrotic lung diseases and Th2-high asthma. *PLoS ONE,* Jun 10;9(6):e99084, 2014
20. **Shin, JS** and Greer, AM. The role of FcεRI expressed in dendritic cells and monocytes, *Cellular and Molecular Life Sciences,* 72:2349, 2015
21. Oh, J and **Shin, JS**. Molecular mechanism and cellular function of MHCII ubiquitination, *Immunological Reviews,* 266:134, 2015
22. Oh, J and **Shin, JS**. The role of dendritic cells in central tolerance, *Immune Network,* 15:111, 2015
23. Bannard O, McGowan SJ, Ersching J, Ishido S, Victora GD, **Shin JS**, and Cyster JG. Ubiquitin-mediated fluctuations in MHCII class II facilitate efficient germinal center B cell responses. *J Exp Med.* 213:993, 2016