

**SEONG H. CHO, MD**

University of South Florida, Morsani College of Medicine, Tampa, Florida

**1. Personal Information**

Faculty position: Associate Professor, Division of Allergy & Immunology, Department of Internal Medicine,  
University of South Florida College of Medicine

Citizenship: U.S.A.

**2. Education**

3/83-2/89 M.D. Kyung Hee University School of Medicine, Seoul, Korea

**3. Positions/Employment**

3/89-2/90 Internship, Kyung-Hee University Medical Center, Seoul, South Korea  
 3/90-4/93 Obligatory Korean Army Service  
 5/93-2/97 Residency in Otolaryngology, Kyung-Hee University Medical Center, Seoul, South Korea  
 3/97- Board Certified in Otolaryngology Head and Neck Surgery (South Korea)  
 3/97-9/97 ENT attending physician, Dept. of Otolaryngology, Cheonggu-Seongshim General Hospital, Seoul, South Korea  
 10/97-9/02 Postdoctoral Fellow, Division of Allergy of Immunology, Department of Pediatrics, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA  
 10/02-6/04 Research Assistant Professor\_(Assistant Researcher), Department of Pediatrics, Harbor-UCLA Medical Center, UCLA School of Medicine, Torrance, CA  
 7/04-6/07 Resident, Internal Medicine, Department of Medicine, University of Tennessee Health Science Center, Memphis, TN  
 7/07-6/09 Clinical Fellow, Division of Allergy-Immunology, Department of Medicine, Northwestern University, Feinberg School of Medicine, Chicago, IL  
 7/09- 8/11 Instructor, Division of Allergy-Immunology, Department of Medicine, Northwestern University, Feinberg School of Medicine, Chicago, IL  
 9/11-1/15 Assistant Professor, Division of Allergy-Immunology, Department of Medicine, Northwestern University, Feinberg School of Medicine, Chicago, IL  
 2/15-7/16 Assistant Professor, Division of Allergy-Immunology, Department of Medicine, University of South Florida, Tampa, FL  
 8/16- Associate Professor, Division of Allergy-Immunology, Department of Medicine, University of South Florida, Tampa, FL

**4. Board Certification and Medical Licensure**

1997- Korean Board of Otolaryngology  
 2007-2017 American Board of Internal Medicine  
 2009-2019 American Board of Allergy-Immunology  
 2007- Illinois Medical License  
 2014- Florida Medical License

**5. Military Service**

1990-1993 Korean Army Service (Obligatory)

**6. Professional Committee Services**

- 2017- **Vice Chair, Rhinitis, Rhinosinusitis, and Ocular Allergy (RROA) Committee,**  
American Academy of Allergy, Asthma and Immunology
- 2010- Member, Asthma & Allergic Diseases in the Elderly (AADE) Committee, American Academy of Allergy, Asthma and Immunology
- 2015- Editorial Board member, Journal of Investigational Allergology and Clinical Immunology**
- 2016- Editorial Board member, Journal of Otorhinolaryngology, Hearing and Balance Medicine**
- 2017- Associate Editor, American Journal of Rhinology and Allergy**
- 2017- Editorial Board member, Impact

**7. Awards, Honors, Distinctions**

- 2002 Imagawa Fellowship Award, Harbor- UCLA Med Ctr, UCLA School of Medicine
- 2007 Goldberg Award, Northwestern Memorial Hospital
- 2008 First Place of Clemens Von Pirquet Award, American College of Allergy, Asthma, and Immunology
- 2009 AAAAI-GSK Fellows Career Development Award, American Academy of Allergy, Asthma and Immunology
- 2010 AAAAI Geriatrics Junior Faculty Development Award, American Academy of Allergy, Asthma and Immunology
- 2010 ACAAI Young Faculty Award, American College of Allergy, Asthma and Immunology
- 2010-present Visiting professorship, Kyung Hee University College of Medicine
- 2011 AHA National Scientist Development Awards, American Heart Association
- 2014 NIH K23 Award on chronic sinusitis and nasal polyps
- 2015 Department of Defense Grant Review Panel Member

**8. Professional Society Memberships**

- Fellow, American Academy of Allergy, Asthma and Immunology (FAAAAI)
- Fellow, American College of Allergy, Asthma, and Immunology (FACAAI)
- Member, American Rhinology Society

**9. Allergy/Immunology meeting attended (last 3 years).**

AAAAI annual meetings in 2016, 2017, 2018

ACAAI annual meetings in 2015, 2016, 2017

**10. CME courses, conferences, or evidence of providing continuing education**

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|----|--|---|---------|
| 1) | Kyung Hee University School of Medicine                    | Role of PAI-1 in the pathogenesis of asthma | 7/2010  |
| 2) | Saints Mary and Elizabeth Medical Center                   | Diagnosis and treatment of urticaria        | 8/2010  |
| 3) | Adventist La Grange Memorial Hospital                      | Chronic urticaria and angioedema            | 9/2010  |
| 4) | Adventist Hinsdale Hospital                                | Chronic urticaria and angioedema            | 10/2010 |
| 5) | American College of Allergy, Asthma and Immunology (ACAAI) | rhinolaryngoscopy workshop.                 | 11/2010 |
| 6) | Saints Mary and Elizabeth Medical Center                   | Chronic cough                               | 1/2011  |
| 7) | Kyung Hee University School of Medicine                    | PAI-1 and airway remodeling in asthma       | 6/2011  |
| 8) | American College of Allergy, Asthma and Immunology (ACAAI) | Rhinology workshop                          | 11/2011 |

9)	Jeonbook University School of Medicine	Role of PAI-1 in airway remodeling	10/2012
10)	Kyung Hee University School of Medicine	Role of PAI-1 in airway remodeling	10/2012
11)	American College of Allergy, Asthma and Immunology (ACAAI)	Rhinology workshop	11/2012
12)	International Federation of Oto-rhinolaryngological Societies	Tissue remodeling in chronic rhinosinusitis and nasal polyp	6/2013
13)	International Federation of Oto-rhinolaryngological Societies	Epithelial barrier dysfunction in chronic rhinosinusitis and nasal polyp	6/2013
14)	Kyung Hee University School of Medicine	Drug allergy	10/2013
15)	Jeonbook University School of Medicine	Drug allergy	10/2013
16)	Kyung Hee International Rhinology Symposium	Tissue remodeling in chronic rhinosinusitis and nasal polyp	11/2013
17)	American College of Allergy, Asthma and Immunology (ACAAI)	Rhinolaryngoscopy workshop	11/2013
18)	American Academy of Allergy, Asthma and Immunology (AAAAI)	Rhinolaryngoscopy workshop	3/2014
19)	Tongji Medical College, Huazong Univ. of Science and Technology	Chronic urticarial and angiodema	9/2014
20)	Tongji Medical College, Huazong Univ. of Science and Technology	Airway remodeling and refractory asthma	9/2014
21)	Kyung Hee University School of Medicine	Drug desensitization	10/2014
22)	Jeonbook University School of Medicine	Gene-environmental interaction in PAI-1 and asthma	10/2014
23)	Sooncheonhyang University School of Medicine	Role of PAI-1 in airway remodeling	10/2014
24)	American College of Allergy, Asthma and Immunology (ACAAI)	Rhinolaryngoscopy workshop	11/2014
25)	American Academy of Allergy, Asthma and Immunology (AAAAI)	Rhinolaryngoscopy workshop	2/2015
26)	Keynote Speaker at the 2015 Hubei Society of Allergy Asthma and Immunology Annual meeting, Wuhan, China	Airway remodeling in asthma	7/2015
27)	Department of Microbiology and Immunology, Tongji Medical College, Huazong Univ. of Science and Technology, Wuhan, China	Role of plasminogen inhibitor-1 in airway remodeling	7/2015
28)	Grand Round, Department of Internal Medicine, USF	Acute and chronic sinusitis, diagnosis and treatment	9/2015
29)	Kyung Hee University School of Medicine, Seoul, Korea	Drug allergy, diagnosis and treatment	10/2015
30)	Jeonbook University School of Medicine Jeonju, Korea	Role of PAI-1 in severe asthma	10/2015
31)	American College of Allergy, Asthma and Immunology (ACAAI)	Rhinolaryngoscopy workshop	11/2015
32)	Update in Allergy and Immunology, Department of Internal Medicine, USF	Sinusitis phenotypes and treatment	12/2015
33)	Tampa General Hospital, Tampa, FL	Rhinitis and sinusitis	1/2016
34)	Orlando Regional Hospital, Orlando, FL	Rhinitis and sinusitis	2/2016
35)	James A. Haley VA hospital, Tampa, FL	Rhinitis and sinusitis	3/2016

36)	Florida Allergy Asthma and Immunology Society Annual meeting	Endotypes of Chronic Rhinosinusitis and Application for Optimal Management	7/2016
37)	Florida Allergy Asthma and Immunology Society Annual meeting	Essential Lessons from Mast Cell Biology for the Allergist	7/2016
38)	Kyung Hee University School of Medicine Seoul, Korea	Food Allergy: Science and Myth	10/2016
39)	Kyung Hee University School of Medicine Seoul, Korea (PGR, Dept of Pediatrics)	Understanding Sinusitis	10/2016
40)	Jeonbuk University School of Medicine Jeonju, Korea	Role of Periostin in Eosinophilic Nasal Polyps	10/2016
41)	Advanced Rhinology 2016: Endoscopic Surgery and Allergy, St. Petersburg, FL	Endotypes of Chronic Rhinosinusitis	11/2016
42)	American College of Allergy, Asthma and Immunology	Rhinology Introductory course and hands on workshop	11/2016
43)	Medicine Grand Round, University South Florida	Emerging Endotypes of Chronic Rhinosinusitis and It's Application to Precision Medicine	8/2017
44)	Kyung Hee University School of Medicine Seoul, Korea	True and myth about food allergy	11/2017
45)	American College of Allergy, Asthma and Immunology (ACAAI)	Rhinology workshop	11/2017
46)	Department of Pediatrics, Tampa General Hospital	Acute and Chronic Sinusitis	1/2018
47)	Department of Internal Medicine, Tampa General Hospital	Rhinitis and Sinusitis	2/2018
48)	International Congress of Otorhinolaryngology, Seoul, Korea	Phenotypes of Chronic rhinosinusitis: An Approach To Better Medical Care For CRS	4/2018
49)	Department of Internal Medicine, James Haley Tampa VA Hospital	Rhinitis and Sinusitis	6/2018

## **11. Publications**

### **a. Peer-reviewed research articles**

1. Lee, D.Y., **Cho, S.H.**, Hong, N.P., Cho, J.S., Ahn, H.Y., Cha, C.I. Control of the intractable epistaxis with selective arterial embolization. Korean Journal of Otolaryngology-Head and Neck Surgery 1995;38:245-251.
2. Park, C.S., Kim, S.C., **Cho, S.H.**, Hong, N.P., Cho, J.S., Cha, C.I., Ahn, H.Y. Computed tomographic analysis in paranasal sinusitis patient. Korean Journal of Otolaryngology-Head and Neck Surgery. 1995;38:1217-1224.
3. Lee, M.J., Cha, C.I., **Cho, S.H.**, Byun, J.Y., Ahn, H.Y., Lee, J.H. Role of p53 protein as a prognostic predictor in oral and laryngeal leukoplakia. Korean Journal of Otolaryngology-Head and Neck Surgery. 1996; 39(10): 1596-1604.
4. **Cho, S.H.**, Cho, J.S., Jang, D.Y., Cha, C.I., Lee, S.M. Effects of leukotriene D4 on ultrastructure of nasal mucous membrane in guinea pigs. Korean Journal of Otolaryngology-Head and Neck Surgery 1997; 40(1): 91-97.
5. **Cho, S.H.**, Cho, J.J., Kim, I.S., Vliagoftis, H., Metcalfe, D.D., Oh, C.K. Identification and characterization of the inducible murine mast cell gene, *imc-415*. Biochem. Biophys. Res. Commun. 1998; 252(1):123-127.
6. **Cho, S.H.**, Tam, S., Filler S.G., Oh, C.K. Production of plasminogen activator inhibitor-1 by human mast cells and its possible role in asthma. J Immunol. 2000;165(6):3154-3161.
7. Oh, C.K., Filler, S.G., and **Cho, S.H.** Eukaryotic Translation Initiation Factor-6 Enhances Histamine and IL-2 Production in Mast Cells. J. Immunol. 2001;166(5):3606-3611.

8. **Cho, S.H.**, Hartleroad, J.Y., Oh, C.K. (S)-albuterol induces release of histamine and IL-4 in mast cells. *Int. Archiv. Allergy Clin Immunol.* 2001;124(4):478-484.
9. **Cho, S.H.**, Ian P. Hall, Amanda Wheatley, Daniel Abraha, Judy Del Mundo, Hang Lee, and Chad K. Oh. Possible role of the plasminogen activator inhibitor-1 gene in the development of asthma. *J Allergy Clin Immunol.* 2001;108(2):212-214.
10. Cho, S.H. Anderson, A.J., and Oh, C.H. Importance of mast cells in the pathophysiology of asthma. *Clin Rev Allergy Immunol.* 2002;22(2):161-174.
11. Oh, C.K., Ariue, B., Tam, S.W. and **Cho, S.H.** PAI-1 promotes extracellular matrix deposition in the airways of a murine model of asthma. *Biochem. Biophys. Res. Commun.* 2002;294(5):1155-1160.
12. **Cho, S.H.**, Bing, Y., Wang, S., Alban, R.F., Barbers, R.G., French, S.W., Oh, C.K. Regulation of the activin a gene in mast cells and asthma: its effect on the proliferation of human airway smooth muscle cells. *J Immunol.* 2003;170(8):4045-4052.
13. Parikh, S.A., Cho, S.H., and Oh CK. Preformed enzymes in mast cell granules and their potential role in allergic rhinitis. *Curr Allergy Asthma Rep.* 2003;3(3):266-272.
14. Abraha, D.\*, **Cho, S.H.**\*, Park, J.M., and Oh, C.K. (S,S)-Formoterol increases the production of IL-4 in mast cells and the airways of a murine asthma model. *Int. Archiv. Allergy Clin Immunol.* 2004 Apr;133(4):380-8. (\* both authors have same contribution)
15. Cho, S.H., Ryu, C.H., Oh, C.K. Plasminogen activator inhibitor-1 in the pathogenesis of asthma. *Exp. Biol Med.* 2004; 229(2): 138-146.
16. Wang SW, Oh CK, **Cho SH**, Hu G, Martin R, Demissie-Sanders S, Li K, Moyle M, Yao Z. Amphiregulin expression in human mast cells and its effect on the primary human lung fibroblasts. *J Allergy Clin Immunol.* 2005 Feb;115(2):287-94.
17. Niihara Y, Matsui NM, Shen YM, Akiyama DA, Johnson CS, Sunga MA, Magpayo J, Embury SH, Kalra VK, **Cho SH**, Tanaka KR. L-Glutamine therapy reduces endothelial adhesion of sickle red blood cells to human umbilical vein endothelial cells. *BMC Blood Disord.* 2005 Jul 25;5(1):4.
18. Hahn WH, Suh JS, **Cho SH**, Cho BS, Kim SD. Polymorphisms of signal transducers and activators of transcription 1 and 4 (STAT1 and STAT4) contribute to progression of childhood IgA nephropathy. *Cytokine.* 2010 Apr;50(1):69-74.
19. **Cho S**, Kang J, Lyttle CS, Harris KE, Daley B, Grammer LC, Avila PC, Kumar R and Schleimer RP. Elevated Plasma Levels Of Plasminogen Activator Inhibitor-1 Are Associated With Diminished Lung Function In Asthma" *Ann Allergy Asthma Immunol* 2011 May;106(5):371-7.
20. Kim HO, Cho CH, Cho YJ, **Cho SH**, Yoon KS, Kim KI. Significant associations of PAI-1 genetic polymorphisms with osteonecrosis of the femoral head. *BMC Musculoskelet Disord.* 2011 Jul 14;12(1):160.
21. **Cho SH**, Hong S, Han B, Suh L, Conley DB, Chandra R, Kern RC, Grammer LC, Schleimer RP. Age-related differences in the pathogenesis of chronic rhinosinusitis. *J Allergy Clin Immunol.* 2012 Mar;129(3):858-860.
22. LEE SH, Eren M, Vaughan DE, Schleimer RP, **Cho SH**. A specific PAI-1 inhibitor, PAI-039, reduced airway inflammation and collagen deposition in an OVA-challenged murine model of chronic asthma. *Am J Respir Cell Mol Biol.* 2012 Jun;46(6):842-6.
23. **Cho SH**, Chen H, Kim IS, Yokose C, Kang J, Cai C, Palma S, Busi M, Martini A, Yoo TJ. Role of the 4G/5G Polymorphism of Plasminogen Activator Inhibitor-1 Gene in Idiopathic Sudden Sensorineural Hearing Loss, A Case Control Study. *BMC Ear, Nose, and Throat Disorders.* 2012 Jun 6;12(1):5.
24. Takabayashi T, Kato A, Peters AT, Hulse KE, Suh LA, Carter R, Norton J, Grammer LC, **Cho SH**, Tan BK, Chandra RK, Conley DB, Kern RC, Fujieda S, Schleimer RP. Excessive fibrin deposition caused by a fibrinolytic disorder through reduction of tissue plasminogen activator expression in nasal polyps. *Am J Respir Crit Care Med.* 2013 Jan 1;187(1):49-57.
25. Suh J, **Cho SH**, Chung J, Moon A, Park Y, Cho B. A polymorphism of interleukin-22 receptor alpha-1 is associated with the development of childhood IgA nephropathy. *J Interferon Cytokine Res.* 2013 Oct;33(10):571-577.
26. Lee H, Kim SR, Oh Y, **Cho SH**, Schleimer RP, Lee YC. Targeting IGF-I and IGFBP-3 Signaling Pathways: A Novel Therapeutic Approach for Asthma. *Am J Respir Cell Mol Biol.* 2014 Apr;50(4):667-77.

27. **Cho SH**, Hong SJ, Chen H, Habib A, Cho D, Lee SH, Kang J, Ward T, Boushey HA, Schleimer RP, Avila PC. Plasminogen activator inhibitor-1 in sputum and nasal fluids increases in asthmatics during common colds. *J Allergy Clin Immunol*. 2014 May;133(5):1465-7.
28. Kim SR, Kim DI, Kim SH, Lee H, Lee KS, **Cho SH**, Lee YC. NLRP3 inflammasome activation by mitochondrial ROS in bronchial epithelial cells is required for allergic inflammation. *Cell Death Dis*. 2014 Oct 30;5:e1498. doi: 10.1038/cddis.2014.460.
29. **Cho SH**, Lee SH, Kato A, Takabayashi T, Shin SC, Schleimer RP. Cross-talk Between Human Mast Cells and Bronchial Epithelial Cells in the Production of Plasminogen Activator Inhibitor-1. *Am J Respir Cell Mol Biol*. 2015 Jan;52(1):88-95.
30. Galam L, Parthasarathy PT, Cho Y, **Cho S**, Lee Y, Lockey RF, Kolliputi N. Adenovirus-Mediated Transfer of the SOCS-1 Gene to Mouse Lung Confers Protection against Hyperoxic Acute Lung Injury. *Free Rad Biol Med* 2015 Jul;84:196-205.
31. Rajanbabu V, Galam L, Fukumoto J, Enciso J, Tadikonda P, Lane T, Bandyopadhyay S, Parthasarathy PT, Cho Y, **Cho S**, Lee Y, Lockey RF, Kolliputi N. Genipin Suppresses NLRP3 Inflammasome Activation. *Cell Immunol*. 2015 Sep;297(1):40-5.
32. Kim DY, **Cho SH**, Takabayashi T, Schleimer RP. Chronic Rhinosinusitis and the Coagulation System. *Allergy Asthma Immunol Res*. 2015 Sep;7(5):421-30.
33. Kim SR, Kim HJ, Kim DI, Lee KB, Park HJ, Jeong JS, **Cho SH**, Lee YC. Blockade of Interplay between IL-17A and Endoplasmic Reticulum Stress Attenuates LPS-Induced Lung Injury. *Theranostics*. 2015 Oct 7;5(12):1343-62.
34. Kim DK, Jin HR, Eun KM, Mutusamy S, **Cho SH**, Oh S, Kim DW. Non-Eosinophilic Nasal Polyps Shows Increased Epithelial Proliferation and Localized Disease Pattern in the Early Stage. *PLoS One*. 2015 Oct 6;10(10):e0139945.
35. **Cho SH**, Kim DW, Lee SH, Kolliputi N, Hong SJ, Suh L, Norton J, Hulse KE, Seshadri S, Conley DB, Kern RC, Tan BK, Peters AT, Grammer LC, Schleimer RP. Age-related increased prevalence of asthma and nasal polyps in chronic rhinosinusitis and its association with altered IL-6 trans-signaling. *Am J Respir Cell Mol Biol*. 2015. Nov;53(5):601-6.
36. Lee KS, Jeong JS, Kim SR, **Cho SH**, Ko YH, Lee KB, Lee YC. Phosphoinositide 3-kinase- $\delta$  regulates fungus-induced steroid-resistant allergic lung inflammation through endoplasmic reticulum stress. *Thorax* 2016 Jan;71(1):52-63.
37. Kim DW, Kim DK, Jin HR, Eun KM, Jo AR, Mo JH, **Cho SH**. Age-related decline of neutrophilic inflammation is associated with better postoperative prognosis in non-eosinophilic nasal polyps. *PLoS One*. *PLoS One*. 2016 Feb 5;11(2):e0148442.
38. Kim DY, Lee SH, Carter RG, Kato A, Schleimer RP, **Cho SH**. A Newly Established Murine Model of Sinus Disease Demonstrates Activation of B Cells, as Occurs in Human Nasal Polyps. *Am J Respir Cell Mol Biol*. 2016 Aug;55(2):170-5.
39. Kim DW, Eun KM, Jin HR, **Cho SH**, Kim DK. Prolonged Allergen Exposure Is Associated With Increased Thymic Stromal Lymphopoietin Expression and Th2-Skewing in Mouse Models of Chronic Rhinosinusitis. *Laryngoscope* 2016 Aug;126(8):E265-72
40. **Cho SH**, Kim DW, Gevaert P. Chronic rhinosinusitis phenotypes; Chronic rhinosinusitis without nasal polyps. *J Allergy Clin Immunol Pract*. 2016 Jul-Aug;4(4):575-82.
41. **Cho SH**, Bachert C, Lockey RF. Chronic rhinosinusitis phenotypes; An Approach to Better Medical Care for Chronic Rhinosinusitis. *J Allergy Clin Immunol Pract*. 2016 Jul-Aug;4(4):639-42.
42. **Cho SH**, Min JY, Kang J, Kim DY, Oh SS, Torgerson DR, Del-Pino-Yanes MM, Hu D, Sen S, Huntsman S, Eng C, Farber HJ, Rodriguez-Cintrón W, Rodriguez-Santana JR, Serebrisky D, Thyne SM, Borrell LN, Williams LK, Seibold MA, Burchard EG, Avila PC, Kumar R. PAI-1 Gene- and Early Life Infection Interaction on Asthma Risk, Asthma Exacerbations, and Reduced Lung Function: The GALA II Study. *PLoS One*. 2016 Aug 24;11(8):e0157848.
43. Kim DW, Kulka M, Jo AR, Eun KM, Arizmendi N, Tancowny BP, Hong SN, Lee JP, Jin HR, Lockey RF, Kim DK, **Cho SH**. Cross-Talk between Human Mast Cells and Epithelial Cells by IgE-mediated Periostin Production in Eosinophilic Nasal Polyps. *J Allergy Clin Immunol*. 2017 May;139(5):1692-1695.

44. Kim DK, Jin HR, Eun KM, Mo JH, **Cho SH**, Oh S, Cho D, Kim DW. The role of interleukin-33 in chronic rhinosinusitis. *Thorax*. 2017 Jul;9(4):299-306.
45. Kim DW and **Cho SH**. Emerging endotypes of chronic rhinosinusitis and its application to precision medicine. *Allergy Asthma Immunol Res*. 2017 Jul;9(4):299-306.
46. Sherenian MG, **Cho SH**, Levin A, Min JY, Oh SS, Hu D, Galanter J, Sen S, Huntsman S, Eng C, Farber HJ, Rodriguez-Cintron W, Rodriguez-Santana JR, Brigino-Buenaventura E, Serebrisky D, Thyne SM, Avila PC, Kalhan R, Smith LJ, Borrell LN, Seibold MA, Williams LK, Burchard EG, and Kumar R. PAI-1 gain-of-function genotype, factors increasing PAI-1 levels, and airway obstruction: the GALA II Cohort. *Clin Exp Allergy*. 2017 May 24. doi: 10.1111/cea.12958. [Epub ahead of print]
47. Chen J, Zhou Y, Wang Y, Zheng Y, Lai X, Westermann-Clark E, **Cho SH**, Kong W. Specific immunoglobulin E and immunoglobulin G4 toward major allergens of house-dust mite during allergen-specific immunotherapy. *Am J Rhinol Allergy*. 2017 May 1;31(3):156-160.
48. Chen J, Zhou Y, Zhang L, Wang Y, Pepper AN, **Cho SH**, Kong W. Individualized Treatment of Allergic Rhinitis According to Nasal Cytology. *Allergy Asthma Immunol Res*. 2017 Sep;9(5):403-409.
49. Jo A, Lee SH, Kim DY, Hong SJ, Teng MN, Kolliputi N, Lockey RF, Schleimer RP, **Cho SH**. Mast Cell-Derived PAI-1 Promotes Airway Inflammation and Remodeling in a Murine Model of Asthma. *J Allergy Clin Immunol*. 2018 Feb 22. pii: S0091-6749(18)30287-2. doi: 10.1016/j.jaci.2018.01.040. [Epub ahead of print]
50. Jeong JS, Lee KB, Kim SR, Kim DI, Park HJ, **Cho SH**, Kolliputi N, Kim SH, Lee YC. Airway epithelial phosphoinositide 3-kinase delta contributes to the modulation of fungi-induced innate immune response. *Thorax*. 2018 Apr 5. pii: thoraxjnl-2017-210326. doi: 10.1136/thoraxjnl-2017-210326. [Epub ahead of print]
51. Kim DI, Jeong JS, Lee KB, Kim SR, Kim HJ, **Cho SH**, Kim SH, Park YS, Hong SB, Hong SJ, Lee KH, Lee YC. Environmental compound-induced lung injury can be improved by an indole derivative. *Scientific Reports*. 2018 (in revision).
52. Kim SR, Lee KB, Kim HJ, Kim DI, **Cho SH**, Lee YC. Phosphoinositide 3-kinase- $\delta$  isoform activates NLRP3 inflammasome in allergic airway inflammation. *J Clin Invest* 2018 (submitted).

#### b. Editorials, Chapters, Books, or Commentaries

1. **Cho, S.H.**, Blaiss, M.S., Lieberman, P. Allergic Diseases of the Eye and Ear. *Patterson's Allergic Diseases*. 2009. 7<sup>th</sup> Edition; 498-518. (book chapter)
2. Uzzaman, A., **Cho, S.H.** Classification of hypersensitivity reactions. *Allergy Asthma Proc* 2012;33:S96–S99.
3. Yee, YC, Kim, SR, **Cho, S.H.** Severe Asthma. 2017 1<sup>st</sup> Edition. Editor.
4. Lin, C, Alandijani, S, **Cho, S.H.** Heterogeneity of Severe Asthma. *Severe Asthma* 2018 1<sup>st</sup> Edition (book chapter).