

Faculty Publications 2011-2022

Key:

Black Bold = A&I Adult Faculty

Green Bold – A&I Pediatric Faculty

Red Bold = Faculty we rotate with in the required clinical rotations such as ENT

Purple Bold = Adult Fellows

Blue Bold – Pediatric Fellows

2011

1. **Alam R. and Gorska MM.** MAPK Signaling and ERK1/2 bistability in Asthma (invited review). Clin. Exp. Allergy. 4:149-59, 2011.
2. **Martucci MA, Dreskin SC.** Immunologic similarities between selected autoimmune diseases and peanut allergy: possible new therapeutic approaches. Curr Allergy Asthma Rep. 2011 Aug;11(4):334-9.
3. Chen X, Zhuang Y, Wang Q, Moutsoglou D, Ruiz G, Yen SE, **Dreskin SC.** Analysis of the effector activity of Ara h 2 and Ara h 6 by selective depletion from a crude peanut extract. J Immunol Methods. 2011 Sep 30;372(1-2):65-70.
4. Johann-Liang R, Josephs S, **Dreskin SC.** Analysis of anaphylaxis cases after vaccination: 10-year review from the National Vaccine Injury Compensation Program. Ann Allergy Asthma Immunol. 2011 May;106(5):440-3.
5. **Dreskin SC,** Ayars A, Jin Y, Atkins D, Leo HL, Song B. Association of genetic variants of CD14 with peanut allergy and elevated IgE levels in peanut allergic individuals. Ann Allergy Asthma Immunol. 2011 Feb;106(2):170-2.
6. Mudd P, **Katial R, Alam R,** Hohensee S, Ramakrishnan V, **Kingdom T.** Variations in expression of matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 in nasal mucosa of aspirin-sensitive versus aspirin-tolerant patients with nasal polyposis. Ann Allergy Asthma Immunol, 107(4):353-359, 2011.
7. **Hoyte FCL** and **Katial RK.** “Antihistamine therapy in allergic rhinitis.” Immunology and Allergy Clinics of North America. 2011 Aug; 31(3): 509-43.
8. **Hoyte FCL** and **Katial RK.** “Chapter 2: Allergy and Immunology of the Aging Lung.” Aging and Lung Disease: A Clinical Guide, Respiratory Medicine. Springer Science and Business Media, LLC 2011.
9. Mudd PA, **Katial RK,** Alam R, Hohensee S, Ramakrishnan V, **Kingdom TT.** Variations in expression of matrix metalloproteinase-9 and tissue inhibitor of metalloproteinase-1 in nasal mucosa of aspirin-sensitive versus aspirin-tolerant patients with nasal polyposis. Ann Allergy Asthma Immunol. 2011 Oct;107(4):353-9.
10. **Katial RK,** Meltzer EO, Lieberman P, Ratner PH, Berger WE, Kaliner MA, Siegel CJ, Bukstein DA, Ciervo CA, Marple B. Suggested updated approaches to patient management. Ann Allergy Asthma Immunol. 2011 Feb;106(2 Suppl):S17-9.
11. **Katial RK.** Intranasal antihistamines in the treatment of allergic rhinitis. Ann Allergy Asthma Immunol. 2011 Feb;106(2 Suppl):S1.

12. **Katial R**, Bernstein D, Prazma C, Lincourt W, Stempel D. Long-term treatment with fluticasone propionate/salmeterol via Diskus improves asthma control versus fluticasone propionate alone. *Allergy Asthma Proc.* 2011 Mar;32(2):127-36.
13. **Otsu K** and **Dreskin SC**. Peanut Allergy: An evolving challenge. *Discov Med.* 2011 Oct; 12(65):319-28.
14. **Nelson HS**, Nolte H, Creticos P, Maloney J, Wu J, Bernstein DI. Efficacy and safety of timothy grass allergy immunotherapy tablet treatment in North American adults. *J Allergy Clin Immunol* 2011;127:72-80.
15. Holgate ST, Noonan M, Chanez P, Busse W, Dupont I, Pavord I, Hakulinen A, Paolozzi L, Wajdula J, Zang C, **Nelson H**, Raible D. A randomized, double-blind, placebo-controlled trial evaluating the efficacy and safety of etanercept in subject the moderate to severe persistent asthma. *Eur Respir J* 2011;37:1352-9.
16. Hebert J, Nolte H, Maloney J, Blaiss M, **Nelson HS**. Efficacy of timothy grass allergy immunotherapy tablet (AIT) treatment in Canadian children and adults with grass pollen-induced allergic rhinoconjunctivitis (ARC). *Allergy Asthma Clin Immunol* 2011;7 (Suppl 2:A17).
17. Borish L, Ayars AG, **Kirkpatrick CH**. Common variable immunodeficiency presenting as herpes simplex virus encephalitis. *J Allergy Clin Immunol.* 2011 Feb;127(2):541-3. doi: 10.1016/j.jaci.2010.11.004. Epub 2010 Dec 16.

2012

1. **Ostroukhova M**, Goplen N, Karim MZ, Michalec L, Guo L, Liang Q, **Alam R**. The role of low-level lactate production in Th2 inflammation in asthma. *Am J Physiol Lung Cell Mol Physiol*, 302(3):L300-7, 2012.
2. **Gorska M**, **Alam R**. A mutation in the human Uncoordinated 119 gene impairs TCR signaling and is associated with idiopathic CD4 lymphopenia. *Blood*, 119(6):1399-406, 2012.
3. Goplen N, Karim MZ, Guo L, Zhuang Y, Huang H, **Gorska MM**, Gelfand G, Pagés G, Pouysségur J, **Alam R**. ERK1 is Important for Th2 Differentiation and Development of Experimental Asthma. *FASEB J.* 26(5):1934-1945, 2012.
4. Zhuang Y, Durrani S, Hodges BD, **Dreskin SC**, Chen X. Expression of recombinant Ara h 6 in *Pichia pastoris* but not in *Escherichia coli* preserves allergic effector function and allows assessment of specific mutations. *Mol Nutr Food Res.* 2012 Jun;56(6):986-95.
5. Kulis M, Chen X, Lew J, Wang Q, **Patel OP**, Zhuang Y, Murray KS, Duncan MW, Porterfield HS, W Burks A, **Dreskin SC**. The 2S albumin allergens of *Arachis hypogaea*, Ara h 2 and Ara h 6, are the major elicitors of anaphylaxis and can effectively desensitize peanut-allergic mice. *Clin Exp Allergy.* 2012 Feb;42(2):326-36.
6. **Gorska M**, and **Alam R**. Consequences of a Mutation in the UNC119 Gene for T-cell Function in Idiopathic CD4 Lymphopenia. *Curr Allergy Asthma Rep.* 12:396-401, 2012
7. Hanifi A, Goplen N, Matin MA, Salters R, **Alam R**. A linear parametric approach for analysis of mouse respiratory impedance. *IEEE Trans Biomed Circuits Syst*, 6(3):287-294, 2012.
8. Lichtenstein KA, Armon C, Nagabhushanam V, Efaw BJ, Frazer-Abel A, Hiserote ME, **Alam R**. A pilot study to assess inflammatory biomarkers changes when Raltegravir is

- added to a virologically suppressive HAART regimen in HIV1-infected patients with limited immunologic responses. *Antivir Ther*, 17(7):1301-9, 2012
9. Oseroff C, Sidney J, Vita R, Tripple V, Baker-McKinney D, Southwood S, Sallusto F, Grey H, **Alam R**, Broide D, Greenbaum JA, Kolla R, Peters B, Sette A. T cell responses to known allergen proteins are differently polarized and account for a variable fraction of total response to allergen extracts. *J Immunol*, 189(4):1800-11, 2012.
 10. Tundwal K, **Alam R**. JAK and Src tyrosine kinase signaling in asthma. *Front Biosci*. 17:2107-21, 2012.
 11. **Hoyte FCL, Weber RK, and Katial RK**. Letter to the Editor: Pancreatitis as a novel complication of aspirin therapy in patients with aspirin exacerbated respiratory disease. *Journal of Allergy and Clinical Immunology*. 2012 Jun; 129(6): 1684-6.
 12. **Katial RK, Covar RA**. Bronchoprovocation testing in asthma. In Katial RK, ed. *Immunology and Allergy Clinics of North America. Issue: Biomarkers in Asthma and Allergy*. Philadelphia, PA: Elsevier. 2012 Aug; 32(3):413-31.
 13. Stewart LJ, **Katial RK**. Exhaled Nitric Oxide. In Katial RK, ed. *Immunology and Allergy Clinics of North America. Issue: Biomarkers in Asthma and Allergy*. Philadelphia, PA: Elsevier. 2012Aug; 32(3):347-62.
 14. Orange JS, Ballow M, Stiehm ER, Ballas ZK, Chinen J, De La Morena M, Kumararatne D, Harville TO, Hesterberg P, Koleilat M, McGhee S, Perez EE, Raasch J, Scherzer R, Schroeder H, Seroogy C, Huissoon A, Sorensen RU, **Katial R**. Use and interpretation of diagnostic vaccination in primary immunodeficiency: A working group report of the Basic and Clinical Immunology Interest Section of the American Academy of Allergy, Asthma & Immunology. *J Allergy Clin Immunol*. 2012 Sep;130(3 Suppl):S1-S24.
 15. Sumino K, Sugar EA, Irvin CG, Kaminsky DA, Shade D, Wei CY, Holbrook JT, Wise RA, Castro M; American Lung Association Asthma Clinical Research Centers including **Katial RK**. Methacholine challenge test: diagnostic characteristics in asthmatic patients receiving controller medications. *J Allergy Clin Immunol*. 2012 Jul;130(1):69-75.
 16. Meltzer EO, Gross GN, **Katial R**, Storms WW. The National Allergy Survey Assessing Limitations (NASAL) Report. Allergic Rhinitis substantially impacts patient quality of life: Findings from the Nasal Allergy Survey Assessing Limitation. *J Fam Pract*. 2012 Feb;61(2 Suppl):S5-S10.
 17. AAAAI/ACAAI Joint Statement of Support of the ATS Clinical Practice Guideline: Interpretation of Exhaled Nitric Oxide for Clinical Applications. ACAA/AAAAI Joint Work Group including **Katial RK**. February 1, 2012, <http://www.aaaai.org/Aaaai/media/MediaLibrary/PDF%20Documents/My%20Membership/FeNOJointStatement3-6-12.pdf>.
 18. Writing Committee for the American Lung Association Asthma Clinical Research Centers, Holbrook JT, Wise RA, Gold BD, Blake K, Brown ED, Castro M, Dozor AJ, Lima JJ, Mastronarde JG, Sockrider MM, Teague WG, including **Katial RK**. Lansoprazole for children with poorly controlled asthma: a randomized controlled trial. *JAMA*. 2012 Jan 25;307(4):373-81.
 19. **Otsu K** and **Fleischer DM**. Desensitization to Foods: present state of the art. *Curr Allergy Asthma Rep*. 2012 Feb; 12(1): 48-54.
 20. Krishnan JA, Bender BG, Wamboldt FS, Szeffler SJ, Adkinson NF Jr, Zeiger RS, et al. Adherence to inhaled corticosteroids: an ancillary study of the Childhood Asthma Management Program clinical trial. *J Allergy Clin Immunol* 2012;129:112-8.

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2013

1. Halsey NA, Griffioen M, **Dreskin SC**, Dekker CL, Wood R, Sharma D, Jones JF, LaRussa PS, Garner J, Berger M, Proveaux T, Vellozzi C; Hypersensitivity Working Group of the Clinical Immunization Safety Assessment Network, Broder K, Setse R, Pahud B, Hrnecir D, Choi H, Sparks R, Williams SE, Engler RJ, Gidudu J, Baxter R, Klein N, Edwards K, Cano M, Kelso JM. Immediate hypersensitivity reactions following monovalent 2009 pandemic influenza A (H1N1) vaccines: reports to VAERS. *Vaccine*. 2013 Dec 9;31(51):6107-12.
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4. Zhuang Y, **Dreskin SC**. Redefining the major peanut allergens. *Immunol Res*. 2013 Mar;55(1-3):125-34.
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6. Chen X, Wang Q, El-Mezayen R, Zhuang Y, **Dreskin SC**. Ara h 2 and Ara h 6 have similar allergenic activity and are substantially redundant. *Int Arch Allergy Immunol*. 2013;160(3):251-8.
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8. McKinney DM, Southwood S, Hinz D, Oseroff C, Lindestam Arlehamn CS, Schulten V, Taplitz R, Broide D, Hanekom WA, Scriba TJ, Wood R, **Alam R**, Peters B, Sidney J, Sette A. A strategy to determine HLA class II restriction broadly covering the DR, DP and DQ allelic variants most commonly expressed in the general population.
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11. Christianson C and **Alam R**. Mechanism of sustained signaling in asthma. *Current Opinion in Allergy & Immunology* 13:100-105, 2013.
12. Schulten V, Hauser M, Greenbaum J, Kolla R, Oseroff C, Ferreira-Briza F, **Alam R**, Broide D, Sette A. Previously undescribed grass pollen antigens are the major inducers of Th2 cytokine producing T cells in allergic individuals. *Proc Natl Acad Sci (USA)*, 110(9):3459-64, 2013.
13. Chen Z, Wang S, **Erekosima N**, Li Y, Hong J, Qi X, Merkel P, Nagabhushanam V, **Choo E**, **Katial R**, **Alam R**, **Trikha A**, Chu HW, Zhuang Y, Jin M, Bai C, Huang H. IL-4 confers resistance to IL-27-mediated suppression on CD4(+) T cells by impairing signal transducer and activator of transcription 1 signaling. *J Allergy Clin Immunol*, 132(4):912-921.e5, 2013.
14. **Burnett T**, **Katial R**, **Alam R**. Mechanisms of Aspirin Desensitization. In Stevenson DD and Kowalski ML eds. *Immunology and Allergy Clinics of North America*. Issue: Reactions to Aspirin and other Non-steroidal Anti-inflammatory Drugs. Philadelphia, PA: Elsevier. 2013 May; 33(2):223-36.
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16. **Hoyte FC**. Vocal cord dysfunction. *Immunol Allergy Clin North Am*. 2013 Feb; 33(1): 1-22.
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18. Laviolette M, Gossage DL, Gauvreau G, Leigh R, Olivenstein R, **Katial R**, Busse WW, Wenzel S, Wu Y, Datta V, Kolbeck R, Molfino NA. Effects of benralizumab on airway eosinophils in asthmatic patients with sputum eosinophilia. *J Allergy Clin Immunol*. 2013 Nov;132(5):1086-1096.
19. Orange JS, **Katial R**. Reply. *J Allergy Clin Immunol*. 2013 Feb;131(2):617-8.
20. **Nelson H**, Blaiss M, Nolte H, Würtz SO, Andersen JS, Durham S. Efficacy and Safety of the SQ-standardised grass allergy immunotherapy tablet in mono- and polysensitised subjects. *Allergy* 2013;68:252-5
21. Healy B, Bibby S, Steele R, Weatherall M, **Nelson H**, Beasley R. Antineutrophil cytoplasmic auto-antibodies (ANCA) and myeloperoxidase (MPO) auto-antibodies in the clinical expression of Churg-Strauss Syndrome. *J Allergy Clin Immunology*. 2013 Feb;131(2):571-6.e1-6.
22. Demoly P, Casale T, **Nelson H**, Calderon M. An evidence-based analysis of house dust mite allergen immunotherapy: a call for more rigorous clinical studies. *J Allergy Clin Immunol* 2013;132:1322-36.
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2014

1. Irvin C, Zafar I, Good J, Rollins D, Christianson C, **Gorska MM**, Martin RJ, **Alam R**. Increased frequency of dual-positive T(H)2/T(H)17 cells in bronchoalveolar lavage fluid characterizes a population of patients with severe asthma. *J Allergy Clin Immunol*, 134(5):1175-1186.e7, 2014. * This paper was published along with a JACI editorial by Bhakt and Erle, (*JACI* 2014; 134: 1187-1188) and a supportive letter to the editor.
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7. **Stitt JM, Dreskin SC**. The potential role of omalizumab in the treatment of chronic urticaria. *Immunotherapy*. 2014;6(6):691-7.
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10. Yáñez A, Cho SH, Soriano JB, Rosenwasser LJ, Rodrigo GJ, Rabe KF, Peters S, Niimi A, Ledford DK, **Katial R, Hoyte FC**, et al. Erratum: asthma in the elderly: what we know and what we have yet to know. *World Allergy Organ J*. 2014 Jun 18; 7(1): 16.
11. **Hoyte FCL and Katial RK**. Exhaled Nitric Oxide. In Vedanthan PK, Nelson HS, Katial RK, Agashi S, and Raul M eds. *Textbook of Allergy for the Clinician*. Boca Raton, FL: Taylor & Francis/CRC press. 2014 Feb; 157-162.
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13. **Hoyte FCL and Katial RK**. Pulmonary Function Testing. In Vedanthan PK, Nelson H, Agashe SN, Mahesh PA, and Katial R eds. *Textbook of Allergy for the Clinician*. Boca Raton, FL: Taylor & Francis/CRC Press. 2014 Feb; 143-150.

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18. **Hoyte FCL and Katial RK.** Diseases in DDx of Asthma: Vocal Cord Dysfunction. In Katial RK ed. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 245-250.
19. **Hoyte FCL.** Exercise Challenge. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 284-285.
20. **Hoyte FCL.** Exhaled Nitric Oxide. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 285-289.
21. **Hoyte FCL.** Mannitol Challenge. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 461-462.
22. **Hoyte FCL.** Methacholine Challenge. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 479-481.
23. **Hoyte FCL.** Pulmonary Function Testing. Encyclopedia of Medical Immunology. New York, NY: Springer. 2014 July; vol 3: 595-599.
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25. **Katial RK.** Moving toward clarity in the treatment of allergic rhinitis, Allergy and Asthma Proceedings. May/June 2014; (35), Supplement 1: S1-S2(2).
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4. **Patel OP**, Giorno RC, Dibbern DA, Andrews KY, Durairaj S, **Dreskin SC**. Gene expression profiles in chronic idiopathic (spontaneous) urticaria. *Allergy Rhinol (Providence)*. 2015 Jan;6(2):101-10.
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