

## **I. Contact Information**

Address: The Center for Clinical Sciences Research (CCSR) CCSR 3215c,  
269 Campus Drive, Stanford, CA 94305

Email: knadeau@stanford.edu

Web: <https://med.stanford.edu/profiles/kari-nadeau>  
<http://med.stanford.edu/allergyandasthma.html>  
<http://med.stanford.edu/pulmonary.html>  
<http://med.stanford.edu/pedair.html>

## **II. Licensures**

- DEA: BN7628742
- NPI: 1871652644
- California Medical License: G85871

## **III. Google Scholar Indices**

- Citations: 10,991, H index: 53, i10 index: 132

## **IV. Certifications**

- 2008: Elected Fellow of the American Academy of Allergy, Asthma, and Immunology
- 2007: Board Certification in Allergy and Immunology
- 2006: Board Certification in Pediatrics

## **V. Educational Background**

- 2003-2006: Fellow, Stanford-UCSF Allergy, Asthma and Immunology Program
- 1995-1997: Pediatric Internship and Residency, Pediatrics, Children's Hospital of Boston Special Alternative Pathway
- 1988-1995: MD and PhD at Harvard Medical School, Medical Scientist Training Program  
Doctoral work completed in Biochemistry and Immunology, Boston, MA
- 1984-1988: BS in Biology, Haverford College, Summa cum Laude, Haverford, PA

## **VI. Professional Appointments (Stanford University School of Medicine)**

- Oct. 2015-present: Professor of Otolaryngology, Department of Otolaryngology (courtesy appointment)
- Oct. 2015-present: Professor of Pediatrics, Division of Allergy, Immunology, and Rheumatology (joint appointment)
- Oct. 2015-present: Professor of Medicine. Division of Pulmonary and Critical Care Medicine

- Jan. 2008-present Director, Sean N. Parker Center for Allergy and Asthma Research at Stanford University
- 2010-present: Member, Children's Health Research Institute, Stanford
- 2007-present: Faculty Member, Multidisciplinary Program in Immunology (MPI), Stanford University School of Medicine, Stanford, CA
- 2007-present: Faculty Member, Stanford Institute of Immunity, Transplantation, and Infectious Disease
- June 2015-Sept. 2015: Associate Professor of Pediatrics (MCL), Division of Allergy, Immunology, and Rheumatology (joint appointment)
- June 2015-Sept. 2015: Associate Professor of Medicine (MCL), Division of Pulmonary and Critical Care Medicine
- Aug. 2011-Sept. 2015: Associate Professor of Otolaryngology (MCL), Courtesy Appointment
- Aug. 2011-May 2015: Associate Professor of Pediatrics (MCL), Division of Allergy, Immunology, and Rheumatology
- June 2008-July 2011: Assistant Professor of Otolaryngology (MCL), Courtesy Appointment
- June 2008-July 2011: Assistant Professor of Pediatrics (MCL), Division of Immunology and Allergy
- July 2006-May 2008: Instructor, Department of Pediatrics
- Nov. 2005-June 2006: Post-doctoral fellow, Laboratory of Dr. Alan Krensky, Clinical Fellow, Allergy and Immunology
- Nov. 2002-Oct. 2005: Clinical Instructor, General Pediatrics

## VII. Other Employment History

- 2002-2003: Vice President of Medical Development and Chief Scientific Officer, Clearview Projects. S. San Francisco, CA. and Princeton, NJ. Oversaw and led scientific review of new diagnostic or therapeutic products and devices of clients (biotechnology companies in U.S., Europe, Japan, and Australia) and wrote development plans and research protocols in allergy, cancer, and autoimmune diseases.
- 2000-2001: Medical Director, Coulter Pharmaceuticals. S. San Francisco, CA. Directed clinical studies in lymphoma and leukemia with an anti- CD20 antibody (Bexxar®), and worked on approval of Bexxar® by the FDA.
- 1998-2000: Associate Medical Director, Biogen. Cambridge, Mass. Directed the anti-CD40L antibody program by writing and leading the clinical research studies for children and adults with allergy, autoimmune diseases, and organ transplantation.

**VIII. Honors and Awards**

- Board of Scientific Counselors of NIH Clinical Centers (CCBSC) (2018-current)
- White House Medical Unit Consultant (2016- 2018)
- Environmental Protection Agency (U.S.), National Scientific Advisory Board (2015- 2017)
- Institute of Medicine, National Academy of Sciences (U.S.), Consultant and Panel Participant (2015-present)
- Faculty Fellow, Stanford Center for Innovation in Global Health (2015-Present)
- United Nations Annual Innovations Lecture “An Allergy Free World For Every Child” (2015)
- University of Washington Grand Rounds and Pierson Lectureship (2015)
- Texas Children’s Hospital Visiting Professorship Lecture (2015)
- Distinguished Lecture Award, NIEHS Annual Distinguished Lecture (2014)
- Member, The American Society of Clinical Investigation (2014)
- American Academy of Asthma, Allergy, and Immunology Research Award (2014)
- Helen F. Cserr Memorial Lecture Award (2014)
- Canadian Allergy and Clinical Immunology Society Plenary Speaker Award (2013)
- Member and Alain L. de Weck Travel Grant Awardee, Collegium Internationale Allergologicum (2012)
- Faculty Fellows Program, Stanford University School of Medicine (2012-2013)
- Clinical Immunological Society (CIS) Junior Faculty Award (2010)
- Elected to Collegium Internationale Allergologicum (2010)
- American Lung Association National Junior Faculty Award (2009)
- Fellow of the American Academy of Asthma, Allergy and Immunology (2008-present)
- ART trust American Academy of Allergy, Asthma and Immunology Award (2008)
- International CIS Immunodeficiency School for Fellows (faculty member) (2008- 2011)
- Speaker Award, La Entrada Inspirational Speaker Series (2007)
- Teaching Award, Stanford Cardinal Free Clinic (2007)
- Guest speaker on Biological Therapies at Massachusetts State Legislature (2000)
- Member, Board of Directors, Lupus Foundation of Massachusetts (1998-2000)
- Speaker Awardee, American Society of Transplantation (5/97, 5/98, 5/99)
- Von Mayer Scholarship Awardee, Children’s Hospital (1995-1998)
- Soma Weiss Speaker for Harvard Medical School (1993)
- Medical Student Teaching Award, Harvard Medical School (6/91, 6/92, 6/93)

## IX. Policy and Community Service/Outreach

- Co-led and organized (with Lane Center for the West and the Woods Institute, Stanford) symposium of rural health and effects of the global climate change and extreme weather conditions at Stanford University. (January 2018)
- Co-sponsored and participant in Global Health Women's Conference at Stanford University (October 2017, Stanford)
- Led multiple NIH-sponsored workshops and groups for immunology, allergy, and/or asthma (2013-present)
- Education and Outreach on Allergies and Asthma to the Underserved in Central Valley, CA. Bay Area, Chicago, New York City, and other parts of the U.S. (2013- present).
- Lectures to hospital emergency rooms on allergy/extreme weather conditions emergencies throughout the U.S. (2011-present).
- Lectures to public health departments on effect of allergy, environmental exposures and allergy and asthma (2007-present).
- U.S. Congress (Senator Sheldon Whitehouse) used our Center's data and slide presentation on global warming and effects on Asthma to the U.S. Senate, July 2017.
- Host, American Lung Association Asthma Educator Conference 2017. Stanford, CA.
- Lecturer, American Lung Association Asthma Educator Conference 2013, Berkeley, CA.
- Webinar Lectures, Environmental Protection Agency and NIH NIEHS "Ambient Air Pollution and Immune Changes in Children" (2013, 2017) and "Epigenetic Changes after Ambient Air Pollution" (2014, 2016)
- Webinar Lecture, American Lung Association "Risk of Air Pollution in Children" (2014)
- Civil Service: Expert for Hearings in CA. State Legislature on Air Pollution Bill (2013) and, separately, on Injectable Epinephrine Bill (2014, 2016).
- Volunteer at Free Clinic, Stanford University Medical School, 2002-2012.
- Lectures to local schools on allergies, 1:1 education of teachers/nurses in local schools on food allergies.

## X. Scholarly Publications

### A. Peer-reviewed Journal Articles

1. Tsai M, Chinthrajah S, Nadeau KC. *Legends of Allergy: Stephen J. Galli*. Allergy. 2019 Apr 9 [Epub ahead of print].
2. Sampath V, Nadeau KC. *Newly identified T cell subsets in mechanistic studies of food immunotherapy*. J Clin Invest. 2019 Apr 1;129(4):1431-1440.

3. Upton J, Montserrat A, Nadeau K. *A perspective on the pediatric death from oral food challenge reported from the Allergy Vigilance Network*. Allergy. 2019 Mar 20. [Epub ahead of print].
4. Prunicki M, Kelsey R, Lee J, Zhou X, Smith E, Haddad F, Wu J, Nadeau K. *The Impact of Prescribed Fire versus Wildfire on the Immune and Cardiovascular Systems of Children*. Allergy. Accepted March 2019.
5. Lee WH, Ong SG, Zhou Y, Tian L, Bae HR, Baker N, Whitlatch A, Mohammadi L, Guo H, Nadeau KC, Springer ML, Schick SF, Bhatnagar A, Wu JC. *Modeling Cardiovascular Risks of E-Cigarettes with Human Induced Pluripotent Stem Cell-Derived Endothelial Cells*. J Am Coll Cardiol. Accepted March 2019. In press.
6. Davidson WF, Leung DYM, Beck LA, Berin CM, Boguniewicz M, Busse WW, Chatila TA, Geha RS, Gern JE, Guttman-Yassky E, Irvine AD, Kim BS, Kong HH, Lack G, Nadeau KC, Schwaninger J, Simpson A, Simpson EL, Spergel JM, Togias A, Wahn U, Wood RA, Woodfolk JA, Ziegler SF, Plaut M. *Report from the National Institute of Allergy and Infectious Diseases Workshop on "Atopic Dermatitis and the Atopic March: Mechanisms and Interventions"*. J Allergy Clin Immunol. 2019 Mar;143(3):894-913.
7. Suarez-Farinas M, Suprun M, Chang HL, Gimenez G, Grishina G, Getts R, Nadeau K, Wood RA, Sampson HA. *Predicting development of "sustained unresponsiveness" to milk oral immunotherapy using epitope profiles*. J Allergy Clin Immunol. 2019 Mar;143(3):1038-1046.
8. Wheatley LM, Wood R, Nadeau K, Liu A, Zoratti E, Bacharier L, Brittain E, Calderon M, Casale T, Chipps B, Cox L, Creticos PS, Desai M, Dreborg S, Durham S, Gergen PJ, Gruchalla R, Nelson H, O'Hehir RE, Plaut M, Schwaninger JM, Tilles S, Vickery B, Wittenberg KM, Togias A. *Mind the gaps: clinical trial concepts to address unanswered questions in aeroallergen immunotherapy. An NIAID/AHRQ Workshop*. J Allergy Clin Immunol. 2019 Feb 4. [Epub ahead of print].
9. Stranks AJ, Minnicozzi SC, Miller SJ, Burton OT, Logsdon SL, Spergel JM, Nadeau KC, Pongracic JA, Umetsu DT, Rachid R, MacGinnitie AJ, Schneider L, Oettgen HC. *IgE blockade during food allergen ingestion enhances the induction of inhibitory IgG antibodies*. Ann Allergy Asthma Immunol. 2019 Feb;122(2):213-215.
10. Nowak-Węgrzyn A, Wood RA, Nadeau KC, Pongracic JA, Henning AK, Lindblad RW, Beyer K, Sampson HA. *Multicenter, randomized, double-blind, placebo-controlled clinical trial of vital wheat gluten oral immunotherapy*. J Allergy Clin Immunol. 2019 Feb;143(2):651-661.e9.
11. Yu W, Zhou X, Dunham D, Lyu SC, Manohar M, Zhang W, Zhao F, Davis MM, Nadeau K. *Allergen Specific CD8(+) T cells in Peanut Allergic Individuals*. J Allergy Clin Immunol. 2019 Jan 22. [Epub ahead of print].
12. Howe LC, Leibowitz KA, Perry MA, Bitler JM, Block W, Kaptchuk TJ, Nadeau KC, Crum AJ. *Changing Patient Mindsets About Non-Life-Threatening Symptoms During Oral Immunotherapy: A Randomized Clinical Trial*. J Allergy Clin Immunol Pract. 2019 Jan 22. [Epub ahead of print].

13. Emeny RT, Korrick SA, Li Z, Nadeau K, Madan J, Jackson B, Baker E, Karagas MR. *Prenatal exposure to mercury in relation to infant infections and respiratory symptoms in the New Hampshire Birth Cohort Study*. Environ Res. 2019 Jan 11;171:523-529.
14. Huilian C, Zhang Y, Lyu SC, Nadeau KC, McHugh T. *Identification of almond (Prunus dulcis) vicilin as a food allergen*. J Agric Food Chem. 2019 Jan 9;67(1):425-432.
15. Gupta RS, Warren CM, Smith BM, Jiang J, Blumenstock JA, Davis MM, Schleimer RP, Nadeau KC. *Prevalence and Severity of Food Allergies Among US Adults*. JAMA Netw Open. 2019 Jan 4;2(1):e185630.
16. Andorf S, Purington N, Kumar D, Long A, O'Laughlin K, Sicherer S, Sampson H, Cianferoni A, Whitehorn TB, Petroni D, Makhija M, Robison RG, Lierl M, Logsdon S, Desai M, Galli SJ, Rael E, Assa'ad A, Chinthrajah S, Pongratic J, Spergel JM, Tam J, Tilles S, Wang J, Nadeau K. *A Phase 2 randomized controlled multisite study using omalizumab-facilitated rapid desensitization to test continued vs discontinued dosing in multifood allergic individuals*. Lancet eClinicalMedicine. 2019 Jan; 7:27-48.
17. Croote D, Darmanis S, Nadeau KC, Quake SR. *High-affinity allergen-specific human antibodies cloned from single IgE B cell transcriptomes*. Science. 2018 Dec 14;362(6420):1306-1309.
18. Gupta RS, Warren CM, Smith BM, Blumenstock JA, Jiang J, Davis MM, Nadeau KC. *The Public Health Impact of Parent-Reported Childhood Food Allergies in the United States*. Pediatrics. 2018 Dec;142(6).
19. Wang M, Tan G, Eljaszewicz A, Meng Y, Wawrzyniak P, Acharya S, Altunbulakli C, Westermann P, Dreher A, Yan L, Wang C, Akdis M, Zhang L, Nadeau KC, Akdis CA. *Laundry detergents and detergent residue after rinse directly disrupt tight junction barrier integrity in human bronchial epithelial cells*. J Allergy Clin Immunol. 2018 Nov 27. [Epub ahead of print].
20. Sindher S, Long AJ, Purington N, Chollet M, Slatkin S, Andorf S, Tupa D, Kumar D, Woch M, O'Laughlin K, Assaad A, Pongratic J, Spergel J, Tam J, Tilles S, Wang J, Galli SJ, Nadeau KC, Chinthrajah RS. *Analysis of a large standardized food challenge data set to determine predictors of positive outcome across multiple allergens*. Front Immunol. 2018 Nov 27;9:2689.
21. Wright BL, Fernandez-Becker NQ, Kambham N, Purington N, Tupa D, Zhang W, Rank MA, Kita H, Shim KP, Bunning B, Doyle AD, Jacobsen EA, Boyd SD, Tsai M, Maecker H, Manohar M, Galli SJ, Nadeau KC, Chinthrajah RS. *Baseline gastrointestinal eosinophilia is common in oral immunotherapy subjects with IgE-mediated peanut allergy*. Front Immunol. 2018 Nov 22;9:2624.
22. Rathore DK, Holmes TH, Nadeau KC, Mittal P, Batra A, Rosenberg-Hasson Y, Sopory S, Gupta R, Chellani HK, Aggarwal KC, Bal V, Natchu UCM, Bhatnagar S, Tavassoli M, Lyell DJ, Rath S, Wadhwa N, Maecker HT. *Differences in multiple immune parameters between Indian and U.S. infants*. PLoS One. 2018 Nov 16;13(11):e0207297.

23. Birrueta G, Tripple V, Pham J, Manohar M, James E, Kwok WW, Nadeau K, Sette A, Peters B, Schulten V. *Peanut-specific T cell responses in patients with different clinical reactivity*. PLoS One. 2018 Oct 10;13(10):e0204620.
24. Sindher SB, Long A, Acharya S, Sampath V, Nadeau KC. *The use of biomarkers to predict aero-allergen and food immunotherapy responses*. Clin Rev Allergy Immunol. 2018 Oct;55(2):190-204.
25. Purington N, Chinthrajah RS, Long A, Sindher S, Andorf S, O'Laughlin K, Woch MA, Scheiber AJ, Assa'ad A, Pongratic J, Spergel J, Tam J, Tilles S, Wang J, Galli SJ, Desai M, Nadeau KC. *Eliciting Dose and Safety Outcomes From a Large Dataset of Standardized Multiple Food Challenges*. Front Immunol. 2018 Sep 21;9:2057.
26. Rice MB, Malea NM, Pinkerton KE, Schwartz J, Nadeau KC, Browner CM, Whitehouse S, Thurston GD. *Realizing the Paris Climate Agreement to Improve Cardiopulmonary Health: Where Science Meets Policy*. Ann Am Thorac Soc. 2018 Jul;15(7):791-798.
27. Chinthrajah RS, Purington N, Andorf S, Rosa JS, Mukai K, Hamilton R, Smith BM, Gupta R, Galli SJ, Desai M, Nadeau KC. *Development of a Tool Predicting Severity of Allergic Reaction During Peanut Challenge*. Ann Allergy Asthma Immunol. 2018 Jul;121(1):69-76.e2.
28. Chinthrajah RS, Purington N, Sampath V, Andorf S, Manohar M, Prunicki M, Zhou X, Tupa D, Nadeau KC. *High dimensional immune biomarkers demonstrate differences in phenotypes and endotypes in food allergy and asthma*. Ann Allergy Asthma Immunol. 2018 Jul;121(1):117-119.e1.
29. Renand A, Farrington M, Whalen E, Wambre E, Bajzik V, Chinthrajah S, Nadeau KC, Kwok WW. *Heterogeneity of Ara h Component-Specific CD4 T Cell Responses in Peanut-Allergic Subjects*. Front Immunol. 2018 Jun 25;9:1408.
30. Zhang W, Lin C, Sampath V, Nadeau K. *Impact of allergen immunotherapy in allergic asthma*. Immunotherapy. 2018 Jun;10(7):579-593.
31. Tsai CT, Mukai K, Robinson PV, Gray MA, Waschmann MB, Lyu SC, Tsai M, Chinthrajah RS, Nadeau KC, Bertozzi CR, Galli SJ. *Isotype-Specific Agglutination-PCR (ISAP): a sensitive and multiplex method for measuring allergen-specific IgE*. J Allergy Clin Immunol. 2018 May;141(5):1901-1904.e15.
32. Zhang W, Sindher S, Sampath V, Nadeau KC. *Comparison of Sublingual Immunotherapy and Oral Immunotherapy in Peanut Allergy*. Allergo J Int. April 2018. <https://doi.org/10.1007/s40629-018-0067-x>.
33. Pajno GB, Fernandez-Rivas M, Arasi S, Roberts G, Akdis CA, Alvaro-Lozano M, Beyer K, Bindslev-Jensen C, Burks W, Ebisawa M, Eigenmann P, Knol E, Nadeau KC, Poulsen LK, van Ree R, Santos AF, du Toit G, Dhimi S, Nurmatov U, Boloh Y, Makela M, O'Mahony L, Papadopoulos N, Sackesen C, Agache I, Angier E, Halken S, Jutel M, Lau S, Pfaar O, Ryan D, Sturm G, Varga EM, van Wijk RG, Sheikh A, Muraro A; EAACI Allergen Immunotherapy Guidelines Group. *EAACI Guidelines on allergen immunotherapy: IgE-mediated food allergy*. Allergy. 2018 Apr;73(4):799-815.

34. Sampath V, Sindher SB, Zhang W, Nadeau KC. *New treatment directions in food allergy*. Ann Allergy Asthma Immunol. 2018 Mar;120(3):254-262.
35. Andorf A, Purington N, Block W, Long A, Tupa D, Brittain E, Spergel A, Desai M, Galli S, Nadeau K, Chinthrajah S. *Anti-IgE Treatment with Oral Immunotherapy in Multifood Allergic Patients*. Lancet Gastroenterol Hepatol. 2018 Feb;3(2):85-94.
36. Dhondalay GK, Rael E, Acharya, S, Zhang W, Sampath V, Galli SJ, Tibshirani, R, Boyd SD, Maecker, H, Nadeau KC, Andorf S. *Food allergy and omics*. J Allergy Clin Immunol. 2018 Jan;141:20-29.
37. Prunicki M, Stell L, Dinakarbandian D, de Planell-Saguer M, Lucas RW, Hammond SK, Balmes JR, Zhou X, Paglino T, Sabatti C, Miller RL, Nadeau KC. *Exposure to NO<sub>2</sub>, CO, and PM<sub>2.5</sub> is linked to regional DNA methylation differences in asthma*. Clin Epigenetics. 2018 Jan 5;10:2. 2018.
38. Pellerin L, Jenks JA, Chinthrajah S, Dominguez T, Block W, Zhou X, Noshirvan A, Gregori S, Roncarolo MG, Bacchetta R, Nadeau KC. *Peanut-specific Tr1 cells induced in vitro from allergic individuals are functionally impaired*. J Allergy Clin Immunol. 2018 Jan;141(1):202-213.e8.
39. Andorf S, Manohar M, Dominguez T, Block W, Tupa D, Kshirsagar RA, Sampath V, Chinthrajah RS, Nadeau KC. *Feasibility of sustained response through long-term dosing in food allergy immunotherapy*. Allergy Asthma Clin Immunol. 2017 Dec 21;13:52. 2017.
40. Andorf S, Manohar M, Dominguez T, Block W, Tupa D, Kshirsagar RA, Sampath V, Chinthrajah RS, Nadeau KC. *Observational long-term follow-up study of rapid food oral immunotherapy with omalizumab*. Allergy Asthma Clin Immunol. 2017 Dec 21;13:51. 2017.
41. Sampson HA, Shreffler WG, Yang WH, Sussman GL, Brown-Whitehorn TF, Nadeau KC, Cheema AS, Leonard SA, Pongracic JA, Sauvage-Delebarre C, Assa'ad AH, de Blay F, Bird JA, Tilles SA, Boralevi F, Bourrier T, Hébert J, Green TD, Gerth van Wijk R, Knulst AC, Kanny G, Schneider LC, Kowalski ML, Dupont C. *Effect of Varying Doses of Epicutaneous Immunotherapy vs Placebo on Reaction to Peanut Protein Exposure Among Patients With Peanut Sensitivity: A Randomized Clinical Trial*. JAMA. 2017 Nov 14;318(18):1798-1809.
42. Lin C, Lee IT, Sampath V, Dinakar C, DeKruyff RH, Schneider LC, Nadeau KC. *Combining anti-IgE with oral immunotherapy*. Pediatr Allergy Immunol. 2017 Nov;28(7):619-627.
43. Frischmeyer-Guerrero PA, Masilamani M, Gu W, Brittain E, Wood R, Kim J, Nadeau K, Jarvinen KM, Grishin A, Lindblad R, Sampson HA. *Mechanistic correlates of clinical responses to omalizumab in the setting of oral immunotherapy for milk allergy*. J Allergy Clin Immunol. 2017 Oct;140(4):1043-1053.e8.
44. Andorf S, Borres MP, Block W, Tupa D, Bollyky JB, Sampath V, Elizur A, Lidholm J, Jones JE, Galli SJ, Chinthrajah S, Nadeau KC. *Association of clinical reactivity with sensitization to allergen components in multifood-allergic children*. J Allergy Clin Immunol Pract. 2017 Sep - Oct;5(5):1325-1334. Boyd S, Hoh R, Nadeau K, Galli S. *Immune Monitoring for Precision Medicine in Allergy and Asthma*. Curr Opin Immunol. 2017 Sep 6;48:82-91.



45. Nurmatov U, Dhimi S, Arasi S, Pajno GB, Fernandez-Rivas M, Muraro A, Roberts G, Akdis C, Alvaro-Lozano M, Beyer K, Bindslev-Jensen C, Burks W, du Toit G, Ebisawa M, Eigenmann P, Knol E, Makela M, Nadeau KC, O'Mahony L, Papadopoulos N, Poulsen LK, Sackesen C, Sampson H, Santos A, van Ree R, Timmermans F, Sheikh A. *Allergen immunotherapy for IgE-mediated food allergy: a systematic review and meta-analysis*. *Allergy*. 2017 Aug;72(8):1133-1147.
46. Chang, H, Nadeau KC. *IL-4Ra Inhibitor for Atopic Disease*. *Cell*. 2017 Jul 13;170(2):222.
47. Park HK, Cheng KC, Tetteh AO, Hildemann LM, Nadeau KC. *Effectiveness of air purifier on health outcomes and indoor particles in homes of children with allergic diseases in Fresno, California: A pilot study*. *J Asthma*. 2017 May;54(4):341-346.
48. Muraro A, Lemanske RF Jr, Castells M, Torres MJ, Khan D, Simon HU, Bindslev-Jensen C, Burks W, Poulsen LK, Sampson HA, Worm M, Nadeau KC. *Precision Medicine in Allergic Disease – Food Allergy, Drug Allergy, and Anaphylaxis- PRACTALL document of the European Academy of Allergy and Clinical Immunology and the American Academy of Allergy, Asthma & Immunology*. *Allergy*. 2017 Jul;72(7):1006-1021.
49. Nygaard UC, Li Z, Palys T, Jackson B, Subbiah M, Malipatlolla M, Sampath V, Maecker H, Karagas MR, Nadeau KC. *Cord blood T cell subpopulations and associations with maternal cadmium and arsenic exposures*. *PLoS One*. 2017 Jun 29;12(6):e0179606.
50. Lee EY, Lin J, Noth EM, Hammond SK, Nadeau KC, Eisen EA, Balmes JR. *Traffic-Related Air Pollution and Telomere Length in Children and Adolescents Living in Fresno, CA: A Pilot Study*. *J Occup Environ Med*. 2017 May;59(5):446-452.
51. Otani I.M., Nadeau K.C. *Biological Therapies for Immunoglobulin E-mediated Food Allergy and Eosinophilic Esophagitis*. *Immunol Allergy Clin North Am*. 2017 May;37(2):369-396.
52. Breton, C.V., Marsit, C.J., Faustman, E., Nadeau, K., Goodrich, J.M., Dolinoy, D.C., Herbstman, J., Holland, N., LaSalle, J.M., Schmidt, R., Yousefi, P., Perera, F., Joubert, B.R., Wiemels, J., Taylor, M., Yang, I.V., Chen, R., Hew, K.M., Hussey Freeland, D.M., Miller, R. and S.K. Murphy. *Small Magnitude Effect Sizes in Epigenetic Endpoints are Important in Children's Environmental Health Studies: The Children's Environmental Health and Disease Prevention Research Center's Epigenetics Working Group*. *Environmental Health Perspectives*. 2017 Apr;125(4):511-526.
53. Freeland DMH, Manohar M, Andorf S, Hobson BD, Zhang W, Nadeau KC. *Oral immunotherapy for food allergy*. *Semin Immunol*. 2017 Apr;30:36-44.
54. MacGinnitie AJ, Rachid R, Gragg H, Little SV, Lakin P, Cianferoni A, Heimall J, Makhija M, Robison R, Chinthrajah RS, Lee J, Lebovidge J, Dominguez T, Rooney C, Lewis MO, Koss J, Burke-Roberts E, Chin K, Logvinenko T, Pongracic JA, Umetsu DT, Spergel J\*, Nadeau KC\*, Schneider LC\*. *Omalizumab facilitates rapid oral desensitization for peanut allergy*. *J Allergy Clin Immunol*. 2017 Mar;139(3):873-881.e8. \*=co senior authors
55. Ahuja SK, Manoharan MS, Harper NL, Jimenez F, Hobson BD, Martinez H, Ingale P, Liu YG, Carrillo A, Lou Z, Kellog DL, Ahuja SS, Rather CG, Esch RE, Ramirez DA, Clark RA, Nadeau K, Andrews CP, Jacobs RL, He W. *Preservation of epithelial cell barrier function*

- and muted inflammation in resistance to allergic rhinoconjunctivitis from house dust mite challenge.* J Allergy Clin Immunol. 2017 Mar;139(3):844-854.
56. Mukai K, Chinthrajah RS, Nadeau KC, Tsai M, Gaudenzio N, Galli SJ. *A new fluorescent-avidin-based method for quantifying basophil activation in whole blood.* J Allergy Clin Immunol. 2017 Mar;139(3):889-899.e11.
  57. Mukai K, Gaudenzio N, Gupta S, Vivanco N, Bendall SC, Maecker HT, Chinthrajah RS, Tsai M, Nadeau KC, Galli SJ. *Assessing basophil activation by using flow cytometry and mass cytometry in blood stored 24 hours before analysis.* J Allergy Clin Immunol. 2017 Mar;139(3):889-899.e11.
  58. Zhang YZ, Du WX, Fan Y, Yi J, Lyu SC, Nadeau KC, Thomas AL, McHugh T. *Purification and Characterization of a Black Walnut (Juglans nigra) Allergen, Jug n 4.* J Agric Food Chem. 2017 Jan 18;65(2):454-462.
  59. Gebe JA, Yadava K, Ruppert SM, Marshall P, Hill P, Falk BA, Sweere JM, Han H, Kaber G, Medina C, Mikecz K, Ziegler SF, Balaji S, Keswani SG, de Jesus Perez VA, Butte MJ, Nadeau K, Altemeier WA, Fanger N, Bollyky PL. *Modified High Molecular Weight Hyaluronan Promotes Allergen-Specific Immune Tolerance.* Am J Respir Cell Mol Biol. 2017 Jan;56(1):109-120.
  60. Sampath V, Tupa D, Graham MT, Chatila TA, Spergel JM, Nadeau KC. *Deciphering the black box of food allergy mechanisms.* Ann Allergy Asthma Immunol. 2017 Jan;118(1):21-27.
  61. Zhang Y, Du WX, Fan Y, Yi J, Lyu SC, Nadeau KC, McHugh TH. *Identification, characterization, and initial epitope mapping of pine nut allergen Pin k 2.* Food Res Int. 2016 Dec;90:268-274.
  62. Yu W, Freeland DM, Nadeau KC. *Food allergy: immune mechanisms, diagnosis and immunotherapy.* Nat Rev Immunol. 2016 Dec;16(12):751-765.
  63. Bunning BJ, DeKruyff RH, Nadeau KC. *Epigenetic Changes During Food-Specific Immunotherapy.* Curr Allergy Asthma Rep. 2016 Nov;16(12):87.
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184. Nadeau KC, Hannibal K, Sirkin S, Nightingale EO. *Immigrating unaccompanied minors—a neglected minority?* West J Med. 1997 Mar;166(3):221-2.
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201. Walsh C, Bradley M, Nadeau K. *Molecular studies on trypanothione reductase, a target for antiparasitic drugs*. Trends Biochem Sci. 1991 Aug;16(8):305-9.
202. Panton L, Tesh R, Nadeau K, Beverley S. *A Test for Genetic Exchange in Mixed Infections of Leishmania major in the Sand Fly Phlebotomus papatasi*. J Protozool. 1991 Aug;16(8):224-228.
203. Leib DA, Nadeau KC, Rundle SA, Schaffer P. *The promoter of the latency-associated transcripts of Herpes Simplex Virus Type I contains a functional cAMP-response element: Role of the latency-associated transcripts and cAMP in reactivation of viral latency*. Proc Natl Acad Sci USA. 1991 Jan 1;88(1):48-52.

## B. Non-Peer Reviewed Publications

None

## C. Book Chapters

1. Block W, Sindher SB, Sampath V, Nadeau KC. "*Sublingual and Oral Food Immunotherapy: Indications, Preparation and Administration*," in Allergens and Allergen Immunotherapy - Subcutaneous, Sublingual and Oral, 6th edition, Chapter 28. Edited by Drs. Lockey and Ledford. CRC. 2019. In Press.
2. Long A, Bunning B, Sampath V, DeKruyff RH, Nadeau KC. *Epigenetics and the environment in airway disease: Asthma and allergic rhinitis*," in Epigenetics in Allergy and Autoimmunity. Edited by Chang C and Lu Q, editors. Springer. 2018. In press.
3. Rael E, Sampath V, Nadeau KC. "*Diagnosis and Differential Diagnosis of Food Allergy Chapter for Pediatric Food Allergy*," in: Ruchi Gupta, editor. Pediatric Food Allergy. A Clinical Guide. Springer. 2018. In press.
4. Nadeau KC. "*Approach to the Patient with Allergic or Immunologic Disease*," in: Lee Goldman L, Andy Schafer A, editors. Goldman-Cecil Medicine. Elsevier. 2018. In press.
5. Prunicki MM, Nadeau KC. "*The Air We Breathe: How Extreme Weather Conditions Harm Us*," in: Steinberg SL, Sprigg WA, editors. Extreme Weather, Health, and Communities: Interdisciplinary Engagement Strategies. Cham: Springer International Publishing; 2016. p. 293-310.
6. Nadeau KC and Jeng, M, "*Apoptosis and Pediatric Idiopathic Neutropenia*," in Present Pediatric Reviews. Volume 7, No. 4, 321-328(8), Bentham Science Publishers, Nov. 2011.
7. Nadeau K, "*T cell immunodeficiencies of the Neonate*," in Neonatology: Clinical Practice and Procedural Atlas, edited by Ronald Cohen, Krisa Van Meurs, David Stevenson, 2011.

8. Hwa V, Nadeau K, Lit J, Rosenfeld R, “*STAT5b Deficiency: Lessons from STAT5b Gene Mutations*,” in Best Practice and Research: Clinical Endocrinology and Metabolism, Vol. 25, No. 1, Feb. 2011.
9. Lewis DB, Cleary A, Nadeau K, “*Primary Immunodeficiencies in Hematology*,” in Hematology: Basic Principles and Practice, 5th edition, Elsevier Science, 2006.
10. Nadeau K, “*Anti-IgE therapy in Asthma in Allergy and Immunology*,” in Pharmacotherapy Handbook, 7th ed., McGraw Hill, 2006.
11. Nadeau K and Umetsu D, “*The Pathology and Diagnosis of Asthma in Allergy: Guide for Medical Students and Residents*,” 3rd edition. Elsevier Science. 2005.
12. Nadeau K and Tilney NL, “*The Role of Sequential Cytokine Analysis in Acute and Chronic Allograft Rejection*,” in Transplantation Reviews, Vol. 5, 99-107, 1996.
13. Nadeau K and Tilney NL, “*Chronic Rejection*,” in Organ Transplantation. Chap 14. 124-150. edited by Morris, P, London, 1996.
14. Walsh C, Bradley M, Nadeau K, “*Molecular Studies on Trypanothione Reductase: An Anti-Parasitic Target Enzyme*,” in Present Topics in Cellular Regulation, Vol. 33, 571- 574, 1992.

## **XI. Other**

### **▪ Editorial Service**

- Associate Editor, Allergy
- Special Issue Editor, J. of Clinical Investigation
- Editorial Board, Clinical Immunology
- Editorial Board, Clinical Epigenetics
- Editorial Board, Journal of Allergy and Clinical Immunology
- Reviewer, Annals of Allergy and Immunology
- Reviewer, Mucosal Immunology
- Reviewer, Nature Immunology
- Reviewer, Nature Medicine
- Reviewer, Nature
- Reviewer, Journal of Clinical Immunology
- Reviewer, Journal of Rhinology
- Reviewer, Respiratory Research
- Reviewer, Journal of Immunology
- Reviewer, Journal of Pediatric Gastroenterology and Nutrition
- Reviewer, American Journal of Respiratory Cell and Molecular Biology

## **A. Patents**

- Inventor, US Patent No. 62/647,389, entitled “*Inhibition of Allergic Reaction to Peanut Allergen using an IL-33 Inhibitor*” (filed 3/23/2018)
- Inventor, US Patent No. 62/119,014, entitled “*Special Oral Formula for Decreasing Food Allergy Risk and Treatment for Food Allergy*” (filed 2/20/15, issued 8/15/17)
- Inventor, US Application No. S10-392, entitled “*Basophil Activation Based Diagnostic Allergy Test*” (filed 10/1/2010)
- Inventor, US Application No. 12/686,121, entitled “*Granulocyte-based methods for detecting and monitoring immune system disorders*” (filed 1/12/2010)
- Inventor, US Patent No. 12/610,940, entitled “*Methods and Assays for Detecting and Quantifying Pure Subpopulations of White Blood Cells in Immune System Disorders*” (filed 11/2/2009, issued 8/12/2018)
- Inventor, US Patent No 10/064,936, entitled “*Mixed Allergen Compositions and Methods for Using the Same*” (issued 9/4/2018)
- Inventor, US Patent No 62/767,444 entitled, “*Microfluidic Device and Diagnostic Methods for Allergy Testing Based on Detection of Basophil Activation*” (filed 11/14/2018)

## **B. Service as Grant Reviewer**

- EAT (End Allergies Together) National Grant Review Committee (2017-present)
- NIH Study Section member for Immune Studies-NIAID (2014-present) and Chairperson (October 2107) and K grant reviewer (2015-present)
- Respiratory Diseases, Saudi National Science Foundation (2014)
- American Lung Association National Grants (2013-present)
- Swiss National Science Foundation ad hoc review for grants (2014- present)
- U.S.-Israel Binational Science Foundation ad hoc review for grants (2013-2014)
- NIH NIAID Immune Tolerance Network (2013-present)
- Medical Research Council, United Kingdom ad hoc reviewer for National grants (2013-present)
- AAAAI (American Academy of Allergy, Asthma, and Immunology) National Jr. Faculty Award Committee for Review of Grants (2013-2014)
- NIH Aging Study Section, ad hoc member (2013)
- California Air Resources Board Scientific Review (2013-present)
- Department of Defense Study Section (Food Allergy Research), ad hoc member (2013)
- NIH Special Study Section (Research with China), ad hoc member (2013)
- Food Allergy Research and Education (FARE) National Foundation (2012- present)
- NIH IRAP Study Section, ad hoc member (2012-2015)
- Stanford University School of Medicine McCormick Grant Program (2010- present)



- Children's Hospital Research Program, CHRI Grant Reviewer LPCH (2007- present)

### **C. Humanitarian Service**

- Physicians for Human Rights (1989-2000)
- Amnesty International-supported work in Haiti (1993)
- Medical Clinic Volunteering in Masaya, Nicaragua (1985 and 1991)
- Outreach and education in Guatemala City, Guatemala (2014)
- Outreach and education in Tecate, Mexico (2013)
- Outreach and education in allergies and asthma East Palo Alto, Inner City Chicago, Harlem, and San Francisco (2012-present)

### **D. University Administrative Service**

#### **▪ Committee Service**

- Member, Stanford University IRB, 2018-present
- Member, Search Committee, Faculty, Pulmonary and Critical Care Medicine Division, Stanford School of Medicine, 2016-2017
- Global Health Summit Committee, 2015-present
- BioMedical Innovation Executive Committee, 2015-present
- Scientific Oversight Committee member for Fellows in Department of Pediatrics (6 fellows to date), 2010-present
- Undergraduate Research Advisory Council, Stanford University, 2012-present
- Stanford School of Medicine Core Facilities Advisory Board, 2011-present
- Stanford Clinical and Translational Networking/Mentoring Program, 2010-2012
- Research Advisory Committee, Dept. of Pediatrics, 2009-present
- Women in Medicine Mentoring Program at Stanford, 2009-present
- Pre-Medical Student Advisor, 2006-present

#### **▪ Leadership Roles at Stanford University**

##### **• Teaching**

- Freshman Undergraduate Seminar – Winter Quarters (2014-present) Undergraduate students - WAYS course on “Translating Science to Disease Treatment.” Teach about global health, climate change, and precision medicine.
- Undergraduate Independent Study (2008-present) Biology 199, Biology 99x
- Immunology 212 (Fall 2010) Biology of Granulocytes and Mast Cells in Human Disease (Course Director)
- Immunology 209 (2010-2015) Graduate School Translational Medicine Course
- Immunology 205 Course (2010-present) Medical School Immunology Course

- Didactic Immunology and Allergy Sessions (since 1/2006) for ACGME- accredited Fellowship
- **Mentoring Undergraduate Students, Residents, Fellows and Researchers**
  - Postdoctoral Fellow, Bibek Paudel, PhD, 2019-present
  - Postdoctoral Fellow, Tome Estimov, PhD, 2019-present
  - Postdoctoral Fellow, Shifaa Suhayl Alkotob, PhD, 2018-present
  - Postdoctoral Fellow, Abhinav Kaushik, PhD, 2018-present
  - Postdoctoral Fellow, Arunachalam Ramaiah, PhD, 2018-present
  - Postdoctoral Fellow, Xiaorui Han, PhD, 2018-present
  - Undergraduate research, Akua Nyarko-Odoom, 2016-present
  - Sr. Research Associate, Gopal Dhondalay, PhD, 2017-present
  - Assistant Professor, Tina Sindher, MD, 2017-present
  - Postdoctoral Fellow, Wong Yu, PhD, 2016-present
  - Visiting Scholar, Fei Wang, MD, 2016-2017
  - Assistant Professor, Chunrong Lin, MD, 2016-2017
  - Instructor, Sandra Andorf, PhD, 2015-present
  - Visiting Scholar, Hye-Kyung Park, MD, 2015-2016
  - Visiting Scholar, Arnon Elizur, MD, 2015-2015
  - Instructor, Maya Kumar, PhD, 2015-present
  - Instructor, Hua Fan Minogue, PhD, 2015-2017
  - Postdoctoral Fellow, Koshika Yadiva, PhD, 2015-2016
  - Researcher, Ben Hobson, AB, 2014-2015
  - Researcher, John Ryan, BS 2014-2015
  - Researcher, Kimberly Vu, BS 2013-2014
  - Researcher, Rachel Hovde, BS, 2013-2014
  - Postdoctoral Fellow, Rebecca Bauer, PhD, 2014-2016
  - Postdoctoral Fellow, Michelle Toft, PhD, 2013-2016
  - Postdoctoral Fellow, Monali Manohar, PhD, 2013-present
  - Instructor, Jenna Bollyky, MD, 2015-2015
  - Assistant Professor, Efren Rael, MD, 2015-present
  - Assistant Professor, Sharon Chinthrajah, MD, 2013-present
  - Instructor, Mary Prunicki, MD, PhD, 2014-present
  - Postdoctoral Fellow, Kinjal Hew, PhD, 2013-2015

- Postdoctoral Fellow, Laurence Pellerin, PhD, 2013-2016
- Visiting Scholar, Unni Nygaard, PhD, 2013-2014
- Visiting Scholar, Satoru Ishida, MD, PhD, 2013-2014
- Visiting Scholar, Philippe Begin, MD, PhD, 2012-2014
- Visiting Scholar, Sr. Research Associate, Rosa Bacchetta, MD, 2012- 2014
- Postdoctoral Fellow, Annett Walker, MD, 2011-2013
- Postdoctoral Fellow, Takahiro Kanai, MD, PhD, 2011-2013
- Postdoctoral Fellow, Minou Le-Carlson, MD, 2010-2012
- Postdoctoral Fellow, Olivier Humboldt, PhD, 2010-2012
- Postdoctoral Fellow, Amit Kumar Singh, PhD, 2010-2011
- Researcher, Aleena Syed, BS, 2011-2013
- Researcher, Jing Liu, BS, 2011-2013
- Visiting Research Fellow in Otolaryngology, Seung Lee, MD, 2010-2012
- Resident in Pediatrics, Carah Santos, MD 2009-2011
- Academic Instructor in Adult Gastroenterology, Nielsen Fernandez- Becker, 2009-2010
- Visiting Research Fellow in Otolaryngology, Soung Kim, MD, 2009-2010
- Undergraduate student and Undergraduate Honors Thesis in Biology (Vice Provost Grant) Jennifer Jenks, 2010-2015
- Undergraduate student, Scott Runyon, 2010-2012
- Undergraduate student and Undergraduate Honors Thesis in Biology (Vice Provost Grant) Robi Bucayu, 2010-2013
- Resident in Otolaryngology, Amanda Munoz, MD, 2009-2011
- Researcher, Tammie Nguyen, BS, 2009-2011
- Undergraduate student and Undergraduate Honors Thesis in Biology (Vice Provost Grant), Jennifer Huang, 2009-2010
- Undergraduate student (Vice Provost Grant) Leslie Cachola, 2008-2012
- Undergraduate student and Undergraduate Honors Thesis in Biology (Vice Provost Grant) Marco Garcia, 2008-2012
- Undergraduate student (Vice Provost Grant) Scott Seki, 2008-2012
- Postdoctoral Fellow, Anup Patel, MD, 2008-2010
- Postdoctoral Fellow, Judy Fuentesbella, MD, 2008-2010
- Postdoctoral Fellow, Neha Reshamwala, MD, 2008-2010
- Postdoctoral Fellow, Grace Yu, MD, 2007-2010

- Researcher, Yael Gernez, MD, 2007-2010
- Undergraduate Honors Thesis in Biology, David Chiang, 2007-2009
- Medical Scholars Program (Sohan Japa), Stanford Medical School, 2006- 2009
- Undergraduate Honors Thesis in Biology, Alison Fohner, 2006-2008
- Undergraduate student (Vice Provost Grant) Jae Joh, 2006-2007
- **Other Leadership Roles**
  - 2016-present: Section Chief, Asthma and Allergy Stanford School of Medicine
  - 2014-present: Director, Sean N. Parker Center for Allergy Research at Stanford University, LPCH at El Camino Hospital, 2500 Grant Road, 4th floor, Tower C, Mountain View, California 94040 USA.
  - 2009: Chairperson, Immunity, Transplantation, and Infectious Disease Retreat. Stanford, CA
  - 2007-2011: Medical Director, Allergy and Immunology Clinics of Stanford University School of Medicine
  - 2005-2011: Co-Program Director, Allergy and Immunology Fellowship Program, Stanford University School of Medicine/Lucile Packard Children's Hospital

## **XII. Service to Professional Organizations**

### **A. Membership (Present)**

- American Thoracic Society
- American College of Allergy, Asthma, and Immunology
- American Academy of Allergy, Asthma and Immunology (AAAAI) American Academy of Pediatrics, Fellow
- American Association of Immunologists Clinical Immunology Society
- Collegium Internationale Allergologicum
- European Academy of Allergy and Clinical Immunology
- Federation of Clinical Immunological Societies
- The American Society of Clinical Investigation

### **B. Committee Service (Present)**

- Protocol Chair, Immune Tolerance Network, ITN087AD Anti-IL-33 Study
- Member, PrecISE Protocol Review Committee
- Member, AHRQ Committee, NIAID
- Member, Annual Meeting Program Committee for the American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, Board of Scientific Counselors of the NIH Clinical Center

- Member, Cells and Mediators of Allergic Inflammation Committee for the American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, Committee for the Underserved for American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, Committee on Aerobiology and Pollution, European Academy of Asthma, Allergy, and Clinical Immunology
- Member, Committee on Food Allergy Clinical Studies, NIAID and Immune Tolerance Network
- Member, Committee on Inflammatory Mechanisms of Asthma for the American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, Core Centers Review Committee, NIEHS
- Member, DSMB, Novartis anti-CRTh2 compound (asthma indication)
- Member, Environmental Health Policy Committee, American Thoracic Society
- Member, Food Allergy Committee, NIAID
- Member, Interest Section Coordinating Committee for the American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, JACI Editorial Board for the American Academy of Asthma, Allergy, and Immunology (AAAAI)
- Member, NHLBI Asthma Strategy National Committee
- Member, NIEHS Core Centers National Committee
- Member, National Scientific Committee, Immune Tolerance Network, NIAID
- Member, Practice, Diagnostics and Therapeutics Committee for the American Academy of Asthma, Allergy, and Immunology (AAAAI)

### C. Leadership Roles

- 2018-present: Council Member for Collegium Internationale Allergologicum (CIA)
- 2018-present: NHLBI Protocol Review Committee (PRC) for the Precision Interventions for Severe and/or Exacerbation Prone Asthma
- 2018-present: NHLBI DSMB (Data Safety Monitoring Board)
- 2017 (October): Chairperson, Mucosal Immunology Study Section, CSR/NIH
- 2016-2018: Chairperson, Gordon Research Conference in Food Allergy, Ventura, CA. January 2018.
- 2016-present: Chairperson, Mechanisms in Allergy and Asthma Committee, AAAAI
- 2015-present: Working Group Leader for NIAID Workshop on Allergen Immunotherapy
- 2014-present: Committee on the Underserved, AAAAI
- 2014-present: NHLBI Advisory Committee for Asthma (NIH NHLBI)

- 2014-present: NIEHS Advisory Committee for Children's Environmental Health Centers (NIH NIEHS)
- 2014-present: ITN Advisory Committee on Mechanistic Studies (NIH NIAID)
- 2013-present: Co Chair, 2014 International FOCIS Conference Planning Committee 2013-2014: National Children's Study Advisory Committee to the President of the U.S. 2013-2014: Chair, FARE committee for training and mentoring Jr. Faculty in Research in Food Allergy
- 2013: Chair, Satellite Training Symposium Program, FOCIS June 2013 International Meeting
- 2013-present: Secretary, Mechanisms of Allergy, Asthma and Immunology Section of AAAAI
- 2012-present: Scientific Advisory Board, No. California American Lung Association 2012-present: Center of Excellence in Immunology Advisory Board, FOCIS
- 2011-2012: National Meeting Leadership Committee Member of AAAAI 2011-2014: Research Advisory Board, Food Allergy Research and Education 2012-present: California Air Resources Board Review Committee
- 2009-2012: Task Force of the National Residency Match Program/Electronic Residency Application Service, American Board of Allergy and Immunology
- 2009-2013: Organizing Committee, Annual Clinical Immunology Society National Conference
- 2008-2013: Session chair for International Federation of Clinical Immunological Society Conference

### **XIII. Invited Lectures at International and National Conferences (from 2008)**

1. *Is There a Scientific Basis for Allergy as a "Systems Disease"?*. Keystone Symposia Conference - Origins of Allergic Disease: Microbial, Epithelial and Immune Interactions (M3). March 25, 2019. Granlibakken Tahoe, Tahoe City, CA.
2. *Understanding mechanisms of allergy and asthma and translating basic science findings to clinical medicine*. Medical Scientist Training Program (MSTP) Student Research Symposium at Duke University School of Medicine. March 14, 2019. Durham, North Carolina.
3. *Preventing and Managing Allergies*. Community Health & Prevention Research (CHPR) 250. CHPR 250: Prevention across Medical Disciplines. March 6, 2019. Stanford, CA.
4. *Hypersensitivity and Allergy*. Immunology in Human Health and Disease Course (IMM205/M&I 205). March 4, 2019. Stanford, CA.
5. *Immune Mechanisms Regulating Food Allergy Pathogenesis*. American Academy of Allergy, Asthma, & Immunology (AAAAI). February 23, 2019. San Francisco, CA.
6. *Epigenetics and Food Allergy*. American Academy of Allergy, Asthma, & Immunology (AAAAI). February 22, 2019. San Francisco, CA.

7. *Mechanisms of Immunotherapy. Institute for Immunity, Transplantation and Infection (ITI) – JOINT ITI, U19, Gates, DRC Series. February 20, 2019. Stanford, CA.*
8. *Wildfires and Health. Stanford Center for Innovation in Global Health - Stanford Planetary Health Speaker Series. February 20, 2019. Stanford, CA.*
9. *Molecular Mechanisms in Food Allergy Studies. Boston Children's Hospital. January 31, 2019. Boston, MA.*
10. *The Future of Food Allergy. AllerGen 2019 Research Conference -Innovation from Cell to Society9: An Impactful Past ~ A Formidable Future. January 30, 2019. Toronto, Canada.*
11. *Immunophenotyping of children with AD. Asthma and Allergic Diseases Cooperative Research Centers Steering Committee Meeting (AADCRC). November 5, 2018. Rockville, MD.*
12. *Studying Immunological Mechanisms to Try to End Food Allergy. The Sixth Annual Yale Immunobiology Student Symposium. November 1, 2018. New Haven, CT.*
13. *Mechanisms of action of IT. European Academy of Allergy and Clinical Immunology (EAACI) and Food Allergy and Anaphylaxis Meeting (FAAM). October 2018. Copenhagen, Denmark.*
14. *Prevention Approaches. International Food Allergy & Anaphylaxis Alliance (IFAAA) and Food Allergy Research & Education (FARE). October 2018. Copenhagen, Denmark.*
15. *Knowledge of Pathways Causing Allergies Lead to Roads to Prevention. October 2018. Third Annual United States Developmental Origins of Health and Disease Meeting (DOHaD Society). Chapel Hill, NC.*
16. *Immune Mechanisms in Food Allergy. September 2018. Massachusetts General Hospital: Immunology Seminar. Boston, MA.*
17. *Immunotherapy and Biologics, Multi-Allergen. July 2018. Aspen Allergy Conference. Aspen, CO.*
18. *Novel Immune Subsets in Mechanisms of Immunotherapy. June 2018. University of Washington Immunology Series. Seattle, WA.*
19. *Prevention and Treatment mechanisms of Food Allergy. April 2018. NIH Grand Rounds, Bethesda, MD.*
20. *Mechanisms of Allergy and Asthma. MIT/Broad Institute. December 2017. Boston, Mass.*
21. *Extreme Weather Conditions, Global Climate Change, and Air Pollution effects on Asthma. October 2017. Fresno, CA.*
22. *OIT to foods - what can our patients look forward to? 5<sup>th</sup> Pediatric Allergy and Asthma Meeting (PAAM). October 2017. London, England.*
23. *Allergen Products for Diagnosis and Therapy: Regulation and Science. 15<sup>th</sup> International Paul-Ehrlich-Seminar (Paul-Ehrlich-Institut and the US Food and Drug Administration). September 2017. Homburg, Germany.*

24. *Epigenetic Mechanisms of Air Pollution-Induced Immune Dysfunction in Children*. Gordon Research Conference (Cellular and Molecular Mechanisms of Toxicity). August 2017. Andover, NH.
25. *Early Intervention in Allergy Prevention*. European Academy of Allergy and Clinical Immunology (EAACI). June 2017. Helsinki, Finland.
7. *Effect of Pollution on the Epigenetic Profile of T Cells in Asthma*. American Thoracic Society (ATS). May 2017. Washington DC.
8. *Effects of Climate Change on Children and Adults with Asthma*. American Thoracic Society (ATS). May 2017. Washington DC.
9. *Impact of Environmental Pollutants on T Cell Populations*. American Thoracic Society (ATS). May 2017. Washington DC.
10. *Environmental Influences on Children's Pulmonary Health: Multifaceted Effects of Tobacco Smoke on Immunity*. American Thoracic Society (ATS). May 2017. Washington DC.
11. *Immunomics to Study Mechanisms of Tolerance in Food Allergy Immunotherapy*. Swiss Institute of Allergy and Asthma Research (SIAF). March 2017. Davos, Switzerland.
12. *Precision Medicine in Food Allergy*. World Immune Regulation Meeting (WIRM). March 2017. Davos, Switzerland.
13. *Food OIT, EPIT and More*. American College of Allergy, Asthma and Immunology. November 2016. San Francisco, CA.
14. *Oral Immunotherapy*. American College of Allergy, Asthma and Immunology. November 2016. San Francisco, CA.
15. *Impact of Air Pollution on Immune Functions*. 5th conference on prenatal Programming and Toxicity (PPTOX V). November 2016. Kitakyushu-city, Fukuoka, Japan.
16. *Food Allergy Update on Oral and Epicutaneous Immunotherapy*. American College of Allergy, Asthma and Immunology. November 2016. San Francisco, CA.
17. *Allergies*. Federation of Clinical Immunology Societies (FOCIS): European Advanced Course in Basic & Clinical Immunology. October 2016. Paris, France.
18. *Mechanisms of Immune Tolerance Informing Rational Vaccine Design in Allergy*. Nature Conference: Immune Profiling in Health and Disease. October 2016. Seattle, Washington.
19. *Epigenetics and Food Allergy*. Food Allergy and Anaphylaxis Meeting (FAAM). October 2016. Rome, Italy.
20. *Allergen Specific Immunotherapy and Induction of Immune Tolerance*. Chinese Academy of Medical Sciences (CAMS) and National Institute of Allergy and Infectious Diseases (NIAID) Immunology and Infectious Workshop. September 2016. Beijing, China.
21. *Mechanisms of Immune Tolerance in Immunotherapy. From the Laboratory to the Clinic: Getting Closer to a Cure?* September 2016. Trinity College, Oxford.



22. *Immune Mechanisms Associated with Food Immunotherapy*. Federation of American Societies of Experimental Biology. July 2016. Palm Beach, FL.
23. *Immunology for Food Allergy*. European Academy of Allergy and Clinical Immunology Congress. June 2016. Vienna, Austria.
24. *Mechanisms of Anti-IgE in Food Allergy Immunotherapy*. NIAID IgE Regulation in Allergic Diseases. April 2016. Bethesda, MD.
25. *Epigenetic Regulation in Food Allergy*. World Immune Regulation Meeting. March 2016. Davos, Switzerland.
26. *Clinical Trial Experience with Viaskin in Peanut Allergy: The Physician and Patient Perspective*. American Academy of Allergy, Asthma, & Immunology, March 2016. Los Angeles, CA.
27. *Mechanistic Studies in T Cells during Food Allergen Immunotherapy*. American Academy of Allergy, Asthma, & Immunology, March 2016. Los Angeles, CA.
28. *Anti-Epithelial Cell-Derived Cytokine Therapies: Basic Mechanisms Underlying the Development of New Therapies*. American Academy of Allergy, Asthma, & Immunology, March 2016. Los Angeles, CA.
29. *Epigenetic Mechanisms that Modulate Food Allergy*. American Academy of Allergy, Asthma, & Immunology, March 2016. Los Angeles, CA.
30. *Epigenetic Changes during Food Allergen Immunotherapy*. American Academy of Allergy, Asthma, & Immunology, March 2016. Los Angeles, CA.
31. *Translating Epigenetics to Cellular Function and Health Outcomes*. American Association for the Advancement of Science. February 2016. Washington, DC.
32. *Oral Immunotherapy – The Stanford Experience*. Nadeau KC. Western Society of Allergy, Asthma, & Immunology. January 2016. Maui, Hawaii.
33. *Molecular Basis of Gut Barrier Dysfunction Leading to Food Allergy*. Western Society of Allergy, Asthma, & Immunology. January 2016. Maui, Hawaii.
34. *Making & Breaking Immune Tolerance in Allergy & Asthma*. John Hopkins Medical School Grand Rounds. December 2015. Baltimore, MD.
35. *New Breakthroughs in Allergy & Asthma*. Stanford University, Department of Medicine Grand Rounds. December 2015. Stanford, CA.
36. *Immunotherapy for Food: Where do we stand?* Nadeau KC. American College of Allergy, Asthma, & Immunology. November 2015. San Antonio, TX.
37. *Deciphering the Black Box of Food Allergy Mechanisms*. American College of Allergy, Asthma, & Immunology. November 2015. San Antonio, TX.
38. *Mechanisms of breaking and making immune tolerance in humans*. NIEHS Center for Environmental Health. Columbia University. October 2015. New York, NY.
39. *New Insights into Food Allergy Diagnosis and Therapy*. Grand Rounds. Department of Pediatrics. Texas Children's. October 2015. Houston, TX.

40. *Anti-IgE therapy in Food Allergies*. International Food Allergy Conference. September 2015. Rome, Italy.
41. *Air Pollution induced T cell dysfunction in Asthma*. EuroTox International Meeting. September 2015. Porto, Portugal.
42. *Molecular and Cellular Diagnostics in Food Allergy*. Institute of Medicine Panel on Food Allergy. September 2015. Washington, DC.
43. *The T Cell in Asthma Exacerbations: Friend or Foe?* American Thoracic Society International Conference. May 2015. Denver, CO.
44. *Mechanistic approaches to epigenetics and toxicant exposures*. The American Association of Immunologists. May 2015. New Orleans, LA.
45. *Food Allergy Therapy: Past, Present, Future*. Grand Rounds. Department of Pediatrics. Seattle Children's. April 2015. Seattle, WA.
46. *Food Allergy Therapy: Past, Present, Future*. Pierson Dinner Lecture. April 2015. Seattle, WA.
47. *The Study of Impaired Systematic Immunity and Linked Epigenetic Modifications during Exposure to Polycyclic Aromatic Hydrocarbons in Ambient Air Pollutions*. The Society of Toxicology Annual Meeting. March 2015. San Diego, CA.
48. *Mechanisms of possible immune tolerance in antigen immunotherapy*. Yale HTI Seminar Series. January 2015. New Haven, CT.
49. *New approaches in the Treatment of Allergies*. Annual Meeting Speaker. New England Allergy Society. October 2014. Waterford, Vermont.
50. *Mechanisms of food allergy immunotherapy*. Plenary Session. National Australian Allergy and Immunology Conference. September 2014. Melbourne, Australia.
51. *Food allergy and New Approaches to Diagnosis and Treatment*. Annual Memorial Lectureship. Mount Desert Island Biological Laboratories Lecture Series. July 2014. Mount Desert Island, Maine.
52. *Anti-IgE therapy for Food Allergy Immunotherapy*. Plenary Session, European Academy of Allergy and Clinical Immunology. June 2014. Copenhagen, Denmark.
53. *Epigenetic Changes in Immune Tolerance in Asthma*. Microbiology and Immunology Lecture Series. University of Texas. April 2014. San Antonio, TX.
54. *Updates in Food Allergy*. Grand Rounds, Department of Pediatrics. University of Texas Health Sciences. April 2014. San Antonio, TX.
55. *Epigenetics in Allergy and Asthma*. NIAID symposium at the AAAAI Annual Meeting. February 2014. San Diego, CA.
56. *Nutrition and Food Allergy and Asthma*. Health and Nutrition National Conference. May 2014. Dallas, TX.
57. *Mechanisms in Immune Tolerance*. Immunology Lecture Series. University of Southern California. March 2014. Pasadena, CA.

58. *Mechanisms of Allergy Immunotherapy: The role of Treg*. NIAID-AAAAI symposium at the International FOCIS Annual Meeting. June 2013. Boston, Mass.
59. *Mechanisms of anti-IgE therapy for Food Allergy Immunotherapy*. European Academy of Allergy and Clinical Immunology. June 2013. Milan, Italy.
60. *New Insights into Epigenetics in Allergy/Asthma*. Allergy and Immunology Grand Rounds. Massachusetts General Hospital and the Brigham and Women's Hospital. June 2013. Boston, Mass.
61. *Environmental Links to Asthma*. Asthma Educator Summit. American Lung Association. The California Endowment. May 2013. Oakland, CA.
62. *The Role of anti IgE in New Therapies in Food Allergy*. Division of Allergy and Immunology. Northwestern School of Medicine. May 2013. Chicago, IL.
63. *Making and Breaking Immune Tolerance*. Bloomberg School of Public Health. Johns Hopkins University School of Medicine. April 2013. Baltimore, MD.
64. *Mechanisms of high dose vs low dose food allergen immunotherapy*. Division of Allergy and Immunology. Mt Sinai School of Medicine. April 2013. New York, NY.
65. *Tolerance in Food Allergy Oral Immunotherapy*. International Conference on Food Allergies. February 2013. Nice, France.
66. *Epigenetic Changes in DNA in Children with Asthma*. U.S. Asthma Summit. November 2012. San Francisco, CA.
67. *Air Pollution and Asthma in Children and Adolescents*. American Lung Association Board Meeting, November 2012. Stanford, CA.
68. *Primary Immunodeficiency and Autoimmune Disease*. Immune Deficiency Foundation Annual Patient and Family Conference. September 2012. Palo Alto, CA.
69. *Food Allergy: Updates on Diagnosis and Treatments*. Grand Rounds. Marin General Hospital. September 2012. Marin, CA.
70. *Dendritic Cells induce Treg in subjects undergoing OIT for Food Allergy*. Collegium Internationale Allergologicum. October 2012. Jeju, Korea.
71. *Food Allergy: Updates on Diagnosis and Treatments*. Grand Rounds. Santa Clara Valley Medical Center. September 2012. Santa Clara, CA.
72. *How Ambient Air Pollution could cause Immune Dysregulation*. EPA/NIEHS Children's Centers Webinar - Wednesday, June 13th 2012.
73. *Mechanisms of Immunotherapy*. NIAID Seminar. AAAAI (American Academy of Allergy Asthma and Immunology National Conference). March 2012. Orlando, FL.
74. *Sublingual Immunotherapy using Dual Aeroallergens*. Plenary Session. AAAAI. March 2012. Orlando, FL.
75. *New Tolerance Mechanisms in Food Allergies*. Plenary Session. AAAAI. March 2012. Orlando, FL.

76. *Eosinophilic Esophagitis: Update on Mechanisms and Therapy*. Lucile Packard Children's Hospital Grand Rounds. January 2012. Stanford, CA.
77. *Mechanisms of Polycyclic Aromatic Hydrocarbons in T cell impairment*. Duke Medical Center. Grand Rounds. January 2012. Durham, NC.
78. *Epigenetic changes following ambient air pollution exposure*. EPA/NIEHS Scientific Group Meeting. University of North Carolina. January 2012. Chapel Hill, NC.
79. *Dissecting the Immunological Link between Air Pollution and Asthma*. San Mateo Hospital Grand Rounds. September 2011. San Mateo, CA.
80. *Mechanisms of Immune Tolerance in Allergy*. NIAID Plenary Session, World Allergy Congress. December 2011. Cancun, Mexico.
81. *Epigenetic Tracking in Specific T Cell Subsets*. EPA Summit Conference, *Developing and Exploring Linkages Between Public Health Indicators, Exposure and Hazard Data*. September 2011. Washington, D.C.
82. *Pediatric Immunology and Allergy: Measurements of the Immune System to track Environmental Exposure*. Environmental Health Summit, National Children's Study. NIH. May 2011. Bethesda, MD.
83. *Pediatric Allergic Disorders*. Grand Rounds, Lucile Packard Children's Hospital. April 2011. Stanford, CA.
84. *Measuring Allergen Specific T Cell Responses in Clinical Research*. AAAAI (American Academy of Allergy Asthma and Immunology National Conference). March 2011. San Francisco, CA.
85. *The Increasing Incidence of Childhood Allergies*. Pediatric Otolaryngology Update 2011. February 2011. Stanford, CA.
86. *Mechanistic Immune Studies in Oral Immunotherapy for Food Allergy*. Children's Memorial Hospital. January 2011. Chicago, IL.
87. *Linking Ambient Air Pollution exposure to Impaired Treg function: Role of epigenetics*. Dartmouth Medical School. November 2010. Hanover, NH.
88. *Tolerance in Immunotherapy Studies*. International FOCIS meeting. June 2010. Boston, MA.
89. *Gastroenterological Disorders and Allergy*. Continuing Medical Education Conference, W Hotel. May, 2009. San Francisco, CA.
90. *Food Allergy: New Diagnostics and New Therapies*. Grand Rounds, Lucile Packard Children's Hospital. April 2009. Stanford, CA.
91. *Treg Tolerance Markers in Immunotherapy*. AAAAI National Conference, Invited Session Speaker. March 2009. Washington, DC.
92. *Update on Immunodeficiencies*. Northern California Association of Allergy and Immunology. January 2009. San Francisco, CA.

93. *Mechanisms of Attenuations of Regulatory T cells in Human Disease*. NIH, January 2009. Bethesda, MD.
94. *Treg dysfunction in Allergy Asthma*. AAAAI National Conference, Session Speaker. March 2008. Philadelphia, Penn.

#### XIV. Funding

##### A. Present NIH Funding

1. R01AI140134-01 (PI: Nadeau)
  - NIAID
  - Major Goals: To understand how multi-OIT with IgE blockade works by using innovative methods to investigate how this therapy induces changes in immune cells known to play a role in the resolution of food allergy.
2. U19AI070535 (Project Leader, Nadeau)
  - NIAID
  - Major Goals: To understand the immune mechanisms associated with the atopic march
3. 1P01AI06684 (Project Leader, Nadeau)
  - NIAID
  - Immune Airway-Epithelial Interactions in Steroid-Refractory Severe Asthma
  - Major goals: To understand the role of immune cells in the disease processes and drug responses in severe asthma.
4. U01AI140498-01 (PI, Nadeau) T cell Reagents for Allergy
  - NIAID
  - Major Goals: To develop new T cell assays and tetramers to study mechanisms of immune tolerance in immunotherapy
5. UM2 CoFAR OUTMatch (PI, Nadeau). Preparation and Distribution of Food flour/powders
  - NIAID
  - Major Goals: To prepare and distribute GMP-manufactured food flour and powders to sites in the OUTMatch phase 2 study
6. UM2 CoFAR Opportunity Fund: Discovering targets for new metabolic markers in young children with food allergies (PI, Nadeau)
  - NIAID
  - Major Goals: To test metabolomic pathway differences in young children on immunotherapy for food allergy.
7. UM2 CoFAR Opportunity Fund (PI, Nadeau)
  - NIAID
  - Major Goals: To test T and DC functions with anti IgE therapy

8. UM1AI130839-01 (PI, Chinthrajah, Co-PI, Nadeau)
  - NIAID CoFAR
  - Major goals: Evaluating the role of allergen dose and duration in the safety and efficacy of multi-allergen oral immunotherapy with omalizumab.
9. 5R01AI125567-02 (PI Boyd, Co-PI, Nadeau)
  - NIAID
  - Functional analysis of pathogenic and protective peanut allergen-specific human antibodies.
  - Major goals: To understand the role of B cells and their products (antibodies) in mediating peanut allergies.

## **B. Present Sponsor Funding**

1. Adelphi Values
  - Development of a clinical outcomes strategy to measure treatment side effects of oral immunotherapy for peanut allergy (RG8080A)
2. Vedanta
  - Metagenomics in Microbiota samples from Patients with food allergy vs controls vs on therapy
3. Regeneron
  - Mechanisms of cytokine analysis after peanut activation of cells
4. AnaptysBio
  - Mechanisms of anti-IL-33 in Food Allergy
5. AnaptysBio
  - Clinical trial of anti-IL-33 in Peanut Allergy
6. Astellas
  - Clinical trial of LAMP-Peanut vaccine in Peanut Allergy
7. DBV Therapeutics
  - REALISE trial for peanut patch in real world
8. DBV Therapeutics
  - MILES trial for milk patch in milk allergy. Double-blind, placebo-controlled randomized trial to study Viaskin Milk Efficacy and safety for treating IgE- mediated cow's milk allergy in children
9. DBV Therapeutics
  - PEPITES phase 3 trial for peanut patch in peanut allergy
10. DBV Therapeutics
  - EPITOPE phase 3 trial for peanut patch in peanut allergy

## 11. DBV Therapeutics

- Open-label Follow-up Study of the PEPITES Study to Evaluate the Long-term Efficacy and Safety of Viaskin® Peanut (PEOPLE Study)

## 12. ADARE

- FLUTicasone in Eosinophilic esophagitis (FLUTE): A Randomized, Double-blind, Placebo-controlled, Dose-ranging, and Maintenance Study of APT-1011 in Subjects with Eosinophilic Esophagitis

## 13. AImmune

- ARC007, 008, 011 follow on phase 4 studies for long term follow up

## 14. AImmune

- PALISADES phase 3 trial for peanut OIT in peanut allergy

## 15. Boerrhinger Ingelheim

- Anti IL-23 phase 2 trial in asthma

## 16. Nestle

- IVORY anti allergenic formula for infants with milk allergy

## 17. Nestle

- HONEY anti allergenic formula in food allergy in infants

## 18. Stallergenes Greer

- Dust mite SLIT for allergic rhinitis
- Blood phenotyping on samples on immunotherapy

## 19. MIMAX study-phase 2

- Sean Parker, Ray Chambers, Mike Milken funded study collaborating with UCLA for minimizing dose and maximizing efficacy for immunotherapy to food allergens

## 20. Novartis

- ZEAL and SPIRIT studies testing anti CRTh2 inhibitor in asthma

## 21. Regeneron Sanofi

- Dupilumab with peanut OIT-Stanford as lead site (Nadeau, lead investigator)
- Questionnaires from patients with food allergy

## 22. Regeneron Pharmaceuticals, Inc

- Archived blood samples for Regeneron assay development

## 23. MTAX study-phase 2

- Testing tolerance in anti IgE therapy in oral immunotherapy.

**C. Present Foundation Funding**

## 1. EAT (Co-Investigator)

- Improving Safety for the Food Allergy-Asthma Syndrome
2. FARE (Food Allergy, Research, and Education)
    - Director, Center of Excellence
    - FARE Clinical Center of Excellence Network for clinical trials in food allergy
    - Major goals: To start and sustain a broad center for food allergy by funding a study coordinator
  3. Trip Advisor Foundation (PI)
    - Program for the Underserved and food allergy education access
  4. Myra Reinhard Foundation (PI)
    - Longitudinal clinical research in children and adults with food allergies
    - Major goals: Studying the ongoing efficacy and safety of all subjects in food allergy clinical trials during long term follow up at Stanford.

#### **D. Completed**

1. UM1AI109565-05 (Immune Tolerance Network - Site Investigator) (site PI, Nadeau)
  - NIAID
  - Major goals: To perform a clinical research study in infants and toddlers with peanut oral immunotherapy.
2. UM1AI109565-04 (Immune Tolerance Network - Site Investigator) (site PI, Nadeau)
  - NIH/NIAID/ Benaroya Research Institute at Virginia Mason
  - Basophil Activation Assays for the ITN Study IMPACT: Oral Immunotherapy for Induction of Tolerance and Desensitization in Peanut-Allergic Children
  - Major goals: To conduct basophil activation tests on blood samples of infants and toddlers receiving immunotherapy.
3. P01ES022849-05 (Project Leader, Nadeau)
  - NIH/NIEHS/UC Berkeley
  - Children's Health and Air Pollution in the San Joaquin Valley (CHAPS-SJV)
  - Major goals: To test mechanisms of air pollution's effect on DNA and immune cells using high dimensional immune monitoring and epigenetics
4. P01ES022832-05 (Sub Investigator, Nadeau)
  - US Environmental Protection Agency/NIH/Dartmouth (PI, Karagas)
  - Children's Environmental Health and Disease Prevention Research Center at Dartmouth.
  - Major goals: To perform mechanistic studies on how water pollution (heavy metals like arsenic) modify the developing immune system.
5. U19AI10420905 (Project Leader, Nadeau)
  - NIAID



- Integrated Genomic and Functional Studies of Tolerance Therapy for Peanut Allergy
  - Major goals: To conduct a clinical trial and T cell studies in adults and young children with peanut allergies.
6. R01HL118612 (PI)
- NHLBI
  - Secondhand Smoke and asthma: Mechanistic outcomes of DNA Methylation in T cells. Major goals: Determining possible links at the molecular level between tobacco smoke, T cells and asthma.
7. Genentech IST Grant (PI)
8. R01ES020926 (PI)
- NIEHS
  - Phenotyping/Epigenetic Studies of Treg Impairment in Asthma
  - Major goals: Determining the epigenetic changes induced in the Foxp3 locus of regulatory T cells in adolescents and children exposed to polycyclic aromatic hydrocarbons.
9. U19AI10420901 IOF (Site PI) (“MAPX”)
- NIH/NIAID
  - Integrated Epi/genomic and Functional Studies of Clinical Tolerance in Anti- IgE/Multiple Food Oral Immunotherapy
  - Major goals: Testing the cellular and genetic mechanisms linked to anti IgE therapy in oral immunotherapy.
10. OLFUS-VIPES (PI)
- DBV Technologies
  - Pharmaceutical Research Associates, Inc.
  - Open-label follow-up study of the VIPES study to evaluate long-term efficacy and safety of the Viaskin- Peanut-Clinical Trial
11. Simons Foundation (Sub Investigator)
- Dissecting the Origins of Food Related autoimmune disorders
  - Major goals: Determining a new test for Food Allergy Diagnostics
12. R01ES020926 (PI) Re-entry supplement
- NIEHS
  - Phenotyping/Epigenetic Studies of Tr1 Cells in Air Pollution
  - Major goals: Determining the epigenetic changes induced in the IL-10 locus of Tr1 cells in adolescents and children exposed to ambient air pollution.
13. Samsung (PI)
- Testing whether there are Differences in asthma pre and post home air filter

14. Jahnsen (PI)
  - Jahnsen Pharmaceuticals Corp.
  - Systematic Profiling of Asthma-Associated Factors in Children
15. FARE (Sub-PI)
  - Clinical Research Study in Peanut OIT and Xolair
  - Major goals: Testing if Xolair hastens Peanut OIT
16. Immune Tolerance Network (Site PI)
  - NIH/NIAID
  - Integrated Epi/genomic and Functional Studies of Clinical Tolerance in Oral Immunotherapy
  - Major goals: Testing the cellular and genetic mechanisms linked to oral immunotherapy.
17. U19AI090019 (Site Investigator)
  - NIAID
  - Vaccination: Indicators of Immunological Health (PI, Davis)
  - Major goals: Determining the T and B cell responses to vaccines given to subjects with primary Immunodeficiency
18. U19 HIPC Award (Sub-investigator)
  - Mayo Clinic (PI, Maecker)
  - Neonatal immune profiles infections and toxicants
  - Major Goals: To test if B cells are changed in cord blood of infants exposed to high levels of arsenic in utero
19. AAAAI (PI)
  - American Academy of Allergy, Asthma, and Immunology Establishing Epigenetic Differences Between iTreg and nTreg
20. R21835442-01 (PI and PI, Karagas)-Multi PI
  - NIEHS
  - Children's Environmental Health Study-New Hampshire
  - Major goals: Quantifying the effects of Arsenic on the developing immune system and infections
21. CIGE025AUS44T (PI)
  - Novartis Pharmaceuticals Corp.
  - Systematic Profiling of Asthma-Associated Genetic Factors
22. R21ES022153-02 (PI)
  - NIEHS

- Tobacco Effects in the Immune System
  - Major goals: Determining whether second hand smoke exposure leads to decreased vaccine responses to influenza vaccine.
23. VIPES (PI)
- DBV Technologies
  - Pharmaceutical Research Associates, Inc.
  - A double-blind, placebo-controlled, randomized trial to study the Viaskin® Peanut's efficacy and safety for treating peanut allergy in children and adults Food Allergy Research/Edu- Clinical Trial
24. VIPES (PI)
- DBV Technologies
25. R21ES020936 (PI)
- NIEHS
  - Arsenic Exposure in utero and T cell studies
  - Major goals: Testing whether arsenic exposure during in utero development is linked to immune dysfunction in T and B cells.
26. R34HL108753 (Sub Investigator)
- NHLBI
  - A pilot study of the DASH diet in not-well-controlled adult asthma (PI, Ma)
  - Major goals: Determining whether an improved diet modulates inflammation in asthma
27. EPA STAR Grant (PI)
- U.S. Environmental Protection Agency
  - Novel Biological Approaches to Linking Ambient Air Pollution Exposure and Health Outcomes
  - Major goals: Defining the immune mechanisms associated with exposure to diesel exhaust and asthma.
28. R21AI09583801 (PI)
- NIAID
  - Development of Improved Diagnostic Allergy Test
29. P20 Children's Environmental Health Center (Project Leader)
- NIEHS
  - UC Berkeley/Stanford Central Valley Environmental Study
30. American Lung Association (PI)
- The Role of Ambient Air Pollution in the Modulation of the Immune system in asthma

31. Novartis Corporation Grant (PI)
  - Systematic Profiling of Basophils in Allergy
32. American Academy of Allergy, Asthma, and Immunology (PI)
  - Mechanisms of Action of Chemokines in Treg of Allergic Asthma
33. The Austin Memorial Foundation (PI)
  - The Role of Air Pollution in the Modulation of the Immune System in Asthma
34. McCormick Grant for Woman
  - Jr. Faculty at Stanford School of Medicine
  - Dissecting Mechanisms of Inhaled Pollutants in Asthma Exacerbations
35. American Academy of Allergy, Asthma, and Immunology (PI)
  - Analysis of regulatory T cell and iNKT cell mechanisms in asthmatics vs. healthy controls
36. Genentech, Inc.
  - A phase II, randomized, double-blind, placebo-controlled study to evaluate the safety, tolerability, and efficacy of lebrikizumab (MILR1444A) in adult patients with asthma who are inadequately controlled on inhaled corticosteroids
37. Revalerio Corporation
  - A phase I, blinded, randomized study of nebulized RNS60 alone or in combination with budesonide in adult healthy subjects and patients with mild to moderate asthma
38. Genentech, Inc.
  - Identification of Novel mechanistic and Clinical biomarkers of Asthma in Subjects on Xolair
39. Meritage, Inc.
  - Oral viscous budesonide suspension (MB-7) in subjects with eosinophilic esophagitis
40. Teva, Inc.
  - An efficacy and safety study of Reslizumab (CTx55700) in the treatment of Eosinophilic esophagitis in subjects aged 5 to 18 years (protocol Res -5-0002)
41. Novartis Pharmaceuticals Corp
  - A double-blind, randomized, placebo-controlled trial of intravenous QAX576 in the treatment of eosinophilic esophagitis
42. DBV Biosciences.
  - A double-blind, placebo-controlled, randomized trial to study the Viaskin® Peanut's efficacy and safety for treating peanut allergy in children and adults
43. Astra Zeneca
  - A randomized, blinded, single center study in mild to moderate asthmatics over the age of 12 years who have a viral-mediated exacerbation and are treated with symbicort (160 mcg budesonide/4.5 fomoterol, 2 inhalations BID) eosinophilic esophagitis who completed

study RES-5-0002

44. FARE (Sub Investigator)
  - Food Allergy Research/Edu (Sub Investigator) Clinical Research Study in Milk OIT and Xolair
  - Major goals: Testing if Xolair leads to tolerance in Milk OIT
45. Food Allergy Research/Edu (Sub Investigator)
  - Clinical Research Study in Wheat Allergy
  - Major goals: Testing if Wheat OIT leads to desensitization
46. Jerini, Inc
  - A phase III randomized double-blind, placebo-controlled multicenter study of icatibant for subcutaneous injection in patients with acute attacks of hereditary angioedema (HAE)