

Edwin H. Kim

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Chapel Hill, NC 27599

Education

- 07/2008 – 06/2011 **Duke University School of Medicine, Durham, NC**
Fellowship: Allergy & Immunology
- 07/2005 – 06/2008 **Duke University School of Medicine, Durham, NC**
Residency: Pediatrics
- 08/2001 – 06/2005 **UMDNJ-Robert Wood Johnson Medical School, Piscataway Township, NJ**
MD
- 08/1999 – 06/2001 **Harvard School of Public Health, Boston, MA**
MS, Health Policy & Management
- 08/1992 – 06/1996 **Massachusetts Institute of Technology, Boston, MA**
BS, Biology

Professional Experience – Employment History

- 07/2021 – present **Associate Professor and Division Chief**
University of North Carolina School of Medicine, Department of Pediatrics,
Division of Pediatric Allergy and Immunology, *Chapel Hill, NC*
- 11/2019 – present **Associate Professor**
University of North Carolina School of Medicine, Department of Medicine,
Division of Allergy, Immunology and Rheumatology, *Chapel Hill, NC*
- 09/2011 – 10/2019 **Assistant Professor**
University of North Carolina School of Medicine, Department of Medicine,
Division of Rheumatology, Allergy & Immunology, *Chapel Hill, NC*
- 07/2017 – 06/2021 **Medical Director**
University of North Carolina Allergy and Immunology Clinic, Chapel Hill, NC
- 10/2015 – present **Director**
University of North Carolina Food Allergy Initiative, Chapel Hill, NC
- 09/2015 – present **Program Director**
07/2014 – 08/2015 **Associate Program Director**
**University of North Carolina Allergy and Immunology Fellowship Training
Program, Chapel Hill, NC**
- 11/2000 – 06/2001 **Intern**

The Women's Care Network, Boston, MA

e-health marketplace analysis for development of a web-based physician/patient interface

06/2000 – 08/2000

Intern

Institute for Medical Quality, San Francisco, CA

Assessment of California's third-party external review program for denials of medical reimbursement

10/1997 – 01/1999

Research Technician

Dana Farber Cancer Institute, Boston, MA

Development of a non-radioactive screen for mutations in the BRCA genes using heteroduplex PCR

06/1995 – 05/1997

Research Technician

MIT Department of Biology, Boston, MA

Investigation of the early development of the immune system in zebrafish

Certifications/ Licensure

2011 – present

American Board of Allergy and Immunology, #5933

2009 – present

North Carolina Medical Board Full License, #2008-00846

2010 – 2015

American Board of Pediatrics, #97828

Honors

09/2022

Selected for the **AAAAI Leadership Forum**

11/2020

Elected to the **Society for Pediatric Research**

01/2019

Accepted to the inaugural **Making the Case** leadership development program

08/2018

Elected as Fellow of **American College of Allergy, Asthma, and Immunology (ACAAI)**

09/2017

Selected for **Leadership Advanced** leadership development program

07/2017

Elected as Fellow of **American Academy of Allergy, Asthma, and Immunology (AAAAI)**

04/2017

Selected for **Being a Better Faculty Research Mentor (BBFRM)** training program

03/2017

Selected for the **AAAAI Leadership Institute** Course and Mentorship Programs

2017 – 2023

Selected as **North Carolina's Top Doctors, Business North Carolina magazine**

09/2015

Accepted to the **Academic Career Leadership Academy in Medicine (ACCLAIM)** leadership training program

09/2015

Accepted to the **Passing the Torch: Fostering Medical Humanism through Faculty Role-Models** program

05/2014

Elected to the **UNC Academy of Educators**

09/2013

Accepted to the **UNC Teaching Scholars Program**

06/2007

Intensive Care Nursery Outstanding Junior Resident Award, Duke Medical Center

06/2006

Exceptional Dedication to Medical Student Training Award, Duke Medical Center

Bibliography and Products of Scholarship

Books/Chapters

AP Stallings, **EH Kim**. Sublingual Immunotherapy for Food Allergy. *Reference Module in Food Science*.

SH Sicherer (editor). 2023; 1-8. doi.org/10.1016/B978-0-323-96018-2.00073-0

DP Mack, **EH Kim**, M Woch, A Schiabe. Chapter 11: Treatment of Food Allergies. *Health Professional's Guide to Nutrition Management of Food Allergies*. C Venter, M Groetch, J James, SH Sicherer (editors). 2023; 244-75.

L Yang, **EH Kim**. Chapter 19: Emerging Food Allergy Therapies. *Pediatric Food Allergy: A Clinical Guide*. R. Gupta (editor). 2020; 261-70. doi: 10.1007/978-3-030-33292-1_19

EH Kim, AW Burks. Chapter 18: Food Allergies. *Patterson's Allergic Diseases 8th edition*. L. Grammer & P Greenberger (editors). 2018; 401-21.

EH Kim, AW Burks. Chapter 8 – 17: Immunological basis of Food Allergy (IgE-mediated, Non-IgE-mediated, and tolerance. *Chem Immunol Allergy – Food Allergy: Molecular Basis and Clinical Practice*. M Ebisawa, BK Ballmer-Weber, S Vieths, RA Wood (editors). 2015; doi: 10.1159/000371646

EH Kim. Diagnostic Food Challenges. *Encyclopedia of Medical Immunology*. IR Mackay, NR Rose, DK Ledford, RF Lockey (editors). 2014; 226-30. doi: 10.1007/978-1-4614-9194-1_219

Refereed Papers/Articles

N Canon, CH Schein, W Braun, SS Negi, MD Kulis, **EH Kim**, V Pathy, X Chen, SC Dreskin. Alanine scanning of the unstructured region of Ara h 2 and of a related mimotope reveals critical amino acids for IgE binding. *Clin Exp Allergy*. 2023; doi: 10.1002/mnfr.202300134.R1

CA Keet, SH Sicherer, S Bunyavanich, C Visness, PC Fulkerson, A Togias, W Davidson, S Perry, S Hamrah, A Calatroni, K Robinson, L Dunaway, CM Davis, S Anvari, SM Leong-Kee, GK Hershey, E DeFranco, A Devonshire, H Kim, C Joseph, B Davidson, NK Strong, AJ Tsuang, M Groetch, J Wang, J Dantzer, K Mudd, A Alna, W Shreffler, Q Yuan, V Simmons, DYM Leung, J Hui-Beckman, JA Ramos, RS Chinthrajah, V Winn, S Sindher, SM Jones, NA Manning, AM Scurlock, **EH Kim**, A Stuebe, JE Gern, AM Singh, J Krupp, RA Wood. The SunBEAm birth cohort: Protocol design. *J Allergy Clin Immunol Global*. 2023; doi: 10.1016/j.jacig.2023.100124

M Greenhawt, SB Sindher, J Wang, M O'Sullivan, G du Toit, **EH Kim**, D Albright, S Anvari, N Arends, PD Arkwright, P Begin, K Blumchen, T Bourrier, T Brown-Whitehorn, H Cassell, ES Chan, CE Ciaccio, A Deschildre, A Divaret-Chauve, SL Dorris, MJ Dorsey, T Eiwegger, M Erlewyn-Lajeunesse, DM Fleischer, LS Ford, M Garcia-Lloret, L Giovannini-Chami, JO Hourihane, N Jay, SM Jones, L Kerns. KM Kloepper, S Leonard, G Lezmi, JA Lieberman, J Lomas, M Makhija, C Parrish, J Peake, KP Perrett, D Petroni, W Pflutzner JA Pongracic, P Quinn, RG Robison, G Sanders, L Schneider, HP Sharma, J Trujillo, PJ Turner, K Tuttle, JEM Upton, P Varshney, BP Vickery, C Vogelberg, B Wainstein, RA Wood, KJ Bee, DE Campbell, TD Green, R Rouissi, A Peillon, HT Bahnson, T Bois, HA Sampson, AW Burks. Phase 3 Trial of Epicutaneous Immunotherapy in Toddlers with Peanut Allergy. *N Eng J Med*. 2023; doi: 10.1056/NEJMoa2212895

EH Kim, CA Keet, YV Virkud, S Chin, P Ye, A Penumarti, J Smeekens, R Guo, X Yue, Q Li, MR Kosorok, MD Kulis, AW Burks. Open-label study of the efficacy, safety, and durability of peanut sublingual immunotherapy in peanut-allergic children. *J Allergy Clin Immunol*. 2023; doi: 10.1016/j.jaci.2023.01.036

J Macdougall, **EH Kim**. A Clinical Focus on Oral Tolerance in the Development, Prevention, and Management of Food Allergy. *Cell Immunol*. 2023; doi: 10.1016/j.cellimm.2023.104693

ACY Foo, JB Nesbit, SAY Gipson, EF DeRose, H Cheng, BK Hurlburt, MD Kulis, **EH Kim**, S Dreskin, S Mustafa, SJ Maleki, GA Mueller. Structure and IgE Cross-Reactivity among Cashew, Pistachio, Walnut, and Peanut Vicilin-Buried Peptides. *J Agric Food Chem*. 2023; doi: 10.1021/acs.jafc.2c07061

M Groetch, K Mudd, M Woch, A Schiable, BE Gray, S Jones, **EH Kim**, BJ Lanser, J Poyser, N Rogers, DC Babineau, A Rudman-Spergel, W Shreffler, S Sicherer, J Spergel, BP Vickery, R Wood, JA Bird, RS Chinthrajah. Retail food equivalents for post-OIT dosing in the OUtMATCH clinical trial. *J Allergy Clin Immunol Pract*. 2022; doi: 10.1016/j.jaip.2022.10.022

EG Liu, B Zhang, V Martin, J Anthonypillai, M Kraft, A Grishin, G Grishina, RS Chinthrajah, T Sindher, M Manohar, Z Quake, K Nadeau, AW Burks, **EH Kim**, MD Kulis, AK Henning, SM Jones, DYM Leung, SH Sicherer, Q Yuan, W Shreffler, HA Sampson, V Chabanova, SC Eisenbarth. Food-specific Immunoglobulin A Does Not Correlate with Natural Tolerance to Peanut or Egg Allergens. *Sci Transl Med*. 2022; doi: 10.1126/scitranslmed.abq0599

EC Steinbach, JM Smeekens, S Roy, T Toyonaga, C Cornaby, L Perini, A Berglind, MD Kulis, **EH Kim**, MT Ferris, TS Furey, AW Burks, SZ Sheikh. Intestinal epithelial cell barrier dysfunction and elevated Angiopoietin-like 4 identified in orally-susceptible peanut allergy model. *Clin Exp Allergy*. 2022; doi: 10.1111/cea.14248

JA Dantzer, **EH Kim**, RS Chinthrajah, RA Wood. Treatment for Food Allergy: Current Status and Unmet Needs. *J Allergy Clin Immunol*. 2022; doi: 10.1016/j.jaci.2022.08.008

J Smeekens, C Baloh, N Lim, D Larson, T Qin, L Wheatley, **EH Kim**, SM Jones, AW Burks, MD Kulis. Peanut-Specific IgG4 and IgA in Saliva are Modulated by Peanut OIT. *J Allergy Clin Immunol Pract*. 2022; doi: 10.1016/j.jaip.2022.07.030

P Purswani, **EH Kim**. Food allergy: History, definitions, and treatment approaches. *J Food Allergy*. 2022; doi: 10.2500/jfa.2022.4.220007

RA Wood, RS Chinthrajah, AKR Spergel, DC Babineau, SH Sicherer, **EH Kim**, WG Shreffler, SM Jones, DYM Leung, BP Vickery. JA Bird, JM Spergel, MD Kulis, A Iqbal, D Kaufman, DT Umetsu, M Ligueros-Saylan, A Uddin, RB Fogel, S Lussier, K Mudd, J Poyser, M MacPhee, M Veri, W Davidson, S Hamrah, A Long, A Togias. Protocol Design and Synopsis: Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Children and Adults (OUtMATCH). *J Allergy Clin Immunol Global*. 2022; doi: 10.1016/j.jacig.2022.05.006

MD Kulis, JM Smeekens, C Burk, X Yue, R Guo, KA Orgel, P Ye, L Herlihy, D Hamilton, Q Li, W Shreffler, BP Vickery, AW Burks, **EH Kim**. Kinetics of basophil hyporesponsiveness during short-course peanut OIT. *J Allergy Clin Immunol*. 2022; doi: 10.1016/j.jaci.2022.05.020

AW Winslow, A Gilmore, **EH Kim**. Peanut anaphylaxis in 2022 - Decoupling epinephrine usage from

emergency department evaluation. *Annals Allergy Clin Immunol.* 2022; doi: 10.1016/j.anai.2022.06.007

RS Chinthrajah, SM Jones, **EH Kim**, SH Sicherer, W Shreffler, BJ Lanser, N Atri, DC Babineau, DC Adelman, A Iqbal, SL Limb, AKR Spergel, A Togias, RA Wood. Updating the CoFAR Grading Scale for Systemic Allergic Reactions in Food Allergy. *J Allergy Clin Immunol.* 2022; doi: 10.1016/j.jaci.2021.12.789

SM Jones, **EH Kim**, KC Nadeau, A Nowak-Wegrzyn, RA Wood, HA Sampson, AM Scurlock, S Chinthrajah, J Wang, RD Pesek, SB Sindher, M Kulis, J Johnson, K Spain, DC Babineau, H Chin, J Laurienzo-Panza, R Yan, D Larson, T Qin, E Wambre, J Calise, D Whitehouse, ML Sever, S Sanda, M Plaut, LM Wheatley, AW Burks. Efficacy and Safety of Oral Immunotherapy in a Randomized, Placebo-Controlled Study of 1-3-Year Old Children with Peanut Allergy: Findings from the Immune Tolerance Network IMPACT Trial. *Lancet.* 2022; doi: 10.1016/S0140-6736(21)02390-4

N Liao, R Scherzer, **EH Kim**. Effective Methods of Clinical Education. *Annals Allergy Clin Immunol.* 2022; doi: 10.1016/j.anai.2021.11.021

MC Berin, C Agashe, AW Burks, D Chiang, WF Davidson, P Dawson, A Grishin, AK Henning, SM Jones, **EH Kim**, DYM Leung, M Masilamani, AM Scurlock, SH Sicherer, RA Wood, HA Sampson. Allergen-specific T cells and clinical features of food allergy: Lessons from CoFAR immunotherapy cohorts. *J Allergy Clin Immunol.* 2022; doi: 10.1016/j.jaci.2021.09.029

C Nilsson, A Gladbach, M Krawiec, K Blumchen, **EH Kim**, A Deschildre, V Sharma, AH Assa'ad, JE Trujillo, K Brown, SA Leonard, A Vereda, A Abbas, T Pham, A Muraro, MD Ibanez. Immunologic Outcomes of daily oral Immunotherapy for Peanut Allergy in Children and Adolescents: Longitudinal Analyses up to 6 Years. *Allergologie.* 2022; 45(8):594-595.

JA Pongratic, R Gagnon, G Sussman, D Siri, RC Oriel, T Brown-Whitehorn, TD Green, DE Campbell, S Anvari, WE Berger, JA Bird, ES Chan, A Cheema, S Chinthrajah, H Chong, PJ Dowling, SM Fineman, DM Fleischer, E Gonzalez-Reyes, **EH Kim**, BJ Lanser, A MacGinnitie, H Mehta, D Petroni, N Rupp, LC Schneider, AM Scurlock, LD Sher, WG Shreffler, SB Sindher, A Stillerman, R Wood, WH Yang, T Bois, HA Sampson, P Begin. Safety of Epicutaneous Immunotherapy in Peanut-Allergic Children: REALISE Randomized Clinical Trial Results. *J Allergy Clin Immunol Pract.* 2022; doi: 10.1016/j.jaip.2021.11.017

A Hung, JM Gonzalez, J Yang, S Hass, **EH Kim**, FR Johnson. Heterogeneity in Parent Preferences for Peanut Desensitization Therapy. *J Allergy Clin Immunol Pract.* 2021; doi: 10.1016/j.jaip.2021.04.058

EGA Iglesia, **EH Kim**. Shorter "time to peanut introduction" can prevent peanut allergy and avert false Ara h 2 screening results in infants. *J Allergy Clin Immunol.* 2021; doi: 10.1016/j.jaci.2021.03.039

HG Smith, **EH Kim**. Increasing diversity in peanut oral immunotherapy research and accessibility. *J Allergy Clin Immunol Pract.* 2021; doi: 10.1016/j.jaip.2021.02.010

BP Vickery, A Vereda, C Nilsson, G Du Toit, WG Shreffler, AW Burks, SM Jones, M Fernandez-Rivas, K Blumchen, JOB Hourihane, K Beyer, A Anagnostou, AH Assa'ad, M Ben-Shoshan, JA Bird, TF Carr, WW Carr, TB Casale, HJ Chong, CE Ciaccio, MJ Dorsey, SM Fineman, SB Fritz, AN Greiner, LS Greos, FC

Hampel, MD Ibanez, DK Jeong, DT Johnston, R Kachru, **EH Kim**, BJ Lanser, SA Leonard, MC Maier, LE Mansfield, A Muraro, JA Ohayon, JNGO Elberink, DH Petroni, JA Pongracic, JM Portnoy, R Rachid, NT Rupp, GM Sanders, HP Sharma, V Sharma, ER Sher, L Sher, SB Sindher, D Siri, JM Spergel, AB Sprickelman, GL Sussman, M Tsoumani, P Varshney, G Vitalpur, J Wang, WH Yang, JM Zubeldia, A Smith, R Ryan, DC Adelman. Continuous and Daily Oral Immunotherapy for Peanut Allergy: Results from a 2-Year Open-Label Follow-On Study. *J Allergy Clin Immunol Pract.* 2021; doi: 10.1016/j.jaip.2020.12.029

J MacDougall, AW Burks, **EH Kim**. Current Insights into Immunotherapy Approaches for Food Allergy. *Immunotargets Ther.* 2021; doi: 10.2147/ITT.S266257

SM Barshow, MD Kulis, AW Burks, **EH Kim**. Mechanisms of Oral Immunotherapy. *Clin Exp Allergy.* 2021; doi: 10.1111/cea.13824

A Penumarti, N Szczepanski, J Kesselring, E Gabel, R Sheth, J Berglund, **EH Kim**, AW Burks, MD Kulis. Irradiated Tree Nut Flours for Use in Oral Immunotherapy. *J Allergy Clin Immunol Pract.* 2021; doi: 10.1016/j.jaip.2020.11.008

L Herlihy, **EH Kim**, AW Burks, H Barber, Q Cook, L Yang, DK Hamilton, BP Vickery. Five-year Follow-up of Early Intervention Peanut Oral Immunotherapy. *J Allergy Clin Immunol Pract.* 2021; doi: 10.1016/j.jaip.2020.07.009

AM Scurlock, AW Burks, SH Sicherer, DYM Leung, **EH Kim**, AK Henning, P Dawson, RW Lindblad, MC Berin, CB Cho, WF Davidson, M Plaut, HA Sampson, RA Wood, SM Jones. Epicutaneous Immunotherapy for Treatment of Peanut Allergy: Follow-up from the Consortium for Food Allergy Research. *J Allergy Clin Immunol.* 2021; doi: 10.1016/j.jaci.2020.11.027

EH Kim, TT Perry, RA Wood, DYM Leung, MC Berin, AW Burks, CB Cho, SM Jones, A Scurlock, SH Sicherer, AK Henning, P Dawson, RW Lindblad, M Plaut, HA Sampson. Induction of Sustained Unresponsiveness After Egg Oral Immunotherapy Compared to Baked Egg Therapy in Egg-allergic Children. *J Allergy Clin Immunol.* 2020; doi: 10.1016/j.jaci.2020.05.040

SA Schworer, **EH Kim**. Sublingual Immunotherapy for Food Allergy and its Future Directions. *Immunotherapy.* 2020; doi: 10.2217/imt-2020-0123

Q Cook, L Yang, A Hamad, H Barber, L Herlihy, AW Burks, **EH Kim**. Dosing, Safety, and Quality of Life After Peanut Immunotherapy Trials – a Long-term Follow Up Study. *J Allergy Clin Immunol Pract.* 2020; doi: 10.1016/j.jaip.2020.04.021

DM Fleischer, WG Shreffler, DE Campbell, TD Green, S Anvari, A Assa'ad, P Bégin, K Beyer, JA Bird, T Brown-Whitehorn, A Byrne, ES Chan, A Cheema, S Chinthrajah, H Chong, CM Davis, LS Ford, R Gagnon, M Greenhawt, JO Hourihane, SM Jones, **EH Kim**, L Lange, BJ Lanser, S Leonard, V Mahler, A Maronna, A Nowak-Wegrzyn, RC Oriol, M O'Sullivan, D Petroni, JA Pongracic, SL Prescott, LC Schneider, P Smith, D Staab, G Sussman, R Wood, WH Yang, R Lambert, A Peillon, T Bois, HA Sampson. Long-Term, Open-Label Extension Study of the Efficacy and Safety of Epicutaneous Immunotherapy for Peanut Allergy in Children: PEOPLE 3-Year Results. *J Allergy Clin Immunol.* 2020; doi: 10.1016/j.jaci.2020.06.028

DM Fleischer, JM Spergel, **EH Kim**, DE Campbell, TD Green, KJ Bee, RLambert, T Ocheltree, HA. Sampson. Evaluation of Daily Patch Application Duration for Epicutaneous Immunotherapy for Peanut Allergy. *Allergy Asthma Proc.* 2020; doi: 10.2500/aap.2020.41.200045

M Greenhawt, **EH Kim**, DE Campbell, TD Green, R Lambert, DM Fleischer. Improvements in Eliciting Dose Across Baseline Sensitivities Following 12 Months of Epicutaneous Immunotherapy (EPIT) in Peanut-Allergic Children Aged 4 to 11 Years. *J Allergy Clin Immunol Pract*, 2020; doi: 10.1016/j.anai.2020.01.030

M Greenhawt, M Shaker, T Winders, D Buckstein, R Davis, DM Fleischer, **EH Kim**, E Chan, D Stukus, D Matlock. Development and Acceptability of a Shared Decision-Making Tool for Commercial Peanut Allergy Therapies. *Ann Allergy Clin Immunol.* 2020; doi: 10.1016/j.anai.2020.01.030

EGA Iglesia, **EH Kim**. Low-risk infants may still benefit from allergenic food consumption. *J Allergy Clin Immunol.* 2020; doi: 10.1016/j.jaci.2020.01.016.

EH Kim, AW Burks. Food Allergy Immunotherapy: OIT and EPIT. *Allergy.* 2020; doi: 10.1111/all.14220

EH Kim, C Patel, AW Burks. Immunotherapy Approaches for Peanut Allergy. *Expert Review of Clinical Immunology.* 2020; doi: 10.1080/1744666X.2019.1708192

EH Kim, SM Jones, AW Burks, RA Wood, SH Sicherer, DYM Leung, AK Henning, RW Lindblad, P Dawson, C Keet, AM Scurlock, M Plaut, HA Sampson. A 5-year Summary of Real-life Dietary Egg Consumption after Completion of a 4-year Egg OIT Protocol. *J Allergy Clin Immunol.* 2020; doi: 10.1016/j.jaci.2019.11.045

PWW Gamage, M Chaudhari, CS McMahan, **EH Kim**, MR Kosorok. An extended proportional hazards model for interval-censored data subject to instantaneous failures. *Lifetime Data Anal.* 2020; doi: 10.1007/s10985-019-09467-z

OL Francis, KY Wang, **EH Kim**, TP Moran. Common Food Allergens and Cross-Reactivity. *J Food Allergy.* 2020; doi: 10.2500/jfa.2020.2.200020

EH Kim, L Yang, P Ye, R Guo, Q Li, MD Kulis, AW Burks. Long-Term Sublingual Immunotherapy for Peanut Allergy in Children: Clinical and Immunologic Evidence of Desensitization. *J Allergy Clin Immunol.* 2019; doi: 10.1016/j.jaci.2019.07.030.

BC Remington, T Krone, **EH Kim**, JA Bird, TD Green, G Lack, DM Fleischer, SJ Koppelman. Estimated Risk Reduction to Packaged Food Reactions by Epicutaneous Immunotherapy (EPIT) for Peanut Allergy. *Ann Allergy Asthma Immunol.* 2019; doi: 10.1016/j.anai.2019.08.007.

DM Fleischer, M Greenhawt, G Sussman, P Bégin, A Nowak-Wegrzyn, D Petroni, K Beyer, T Brown-Whitehorn, J Hebert, JO Hourihane, DE Campbell, S Leonard, RS Chinthrajah, JA Pongratic, SM Jones, L Lange, H Chong, TD Green, R Wood, A Cheema, SL Prescott, P Smith, W Yang, ES Chan, A Byrne, A Assa'ad, JA Bird, **EH Kim**, L Schneider, CM Davis, BJ Lanser, R Lambert, W Shreffler. Effect of

Epicutaneous Immunotherapy vs Placebo on Reaction to Peanut Protein Ingestion Among Children With Peanut Allergy: The PEPITES Randomized Clinical Trial. *JAMA*. 2019; doi: 10.1001/jama.2019.1113

Q Cook, **E Kim**. Update on Peanut Allergy: Prevention and Immunotherapy. *Allergy Asthma Proc*. 2019; doi: 10.2500/aap.2019.40.4190

M Kulis, X Yue, R Guo, H Zhang, K Orgel, P Ye, Q Li, Y Liu, **E Kim**, A Burks, B Vickery. High and Low Dose Oral Immunotherapy Similarly Suppress Pro-Allergic Cytokines and Basophil Activation in Young Children. *Clin Exp Allergy*. 2019; doi: 10.1111/cea.13256

BP Vickery, A Vereda, TB Casale, K Beyer, G du Toit, JO Hourihane, SM Jones, WG Shreffler, A Marcantonio, R Zawadzki, L Sher, WW Carr, S Fineman, L Greos, R Rachid, MD Ibáñez, S Tilles, AH Assa'ad, C Nilsson, N Rupp, MJ Welch, G Sussman, S Chinthrajah, K Blumchen, E Sher, JM Spergel, FE Leickly, S Zielen, J Wang, GM Sanders, RA Wood, A Cheema, C Bindslev-Jensen, S Leonard, R Kachru, DT Johnston, FC Hampel, **EH Kim**, A Anagnostou, JA Pongratic, M Ben-Shoshan, HP Sharma, A Stillerman, HH Windom, WH Yang, A Muraro, JM Zubeldia, V Sharma, MJ Dorsey, HJ Chong, J Ohayon, JA Bird, TF Carr, D Siri, M Fernández-Rivas, DK Jeong, DM Fleischer, JA Lieberman, AEJ Dubois, M Tsoumani, CE Ciaccio, JM Portnoy, LE Mansfield, SB Fritz, BJ Lanser, J Matz, JNGO Elberink, P Varshney, SG Dilly, DC Adelman, AW Burks. AR101 Oral Immunotherapy for Peanut Allergy. *N Eng J Med*. 2018; doi: 10.1056/NEJMoa1812856

M Chaudhari, **EH Kim**, PW Gamage, CS McMahan, MR Kosorok. Study Design with Staggered Sampling Times for Evaluating Sustained Unresponsiveness to Peanut Sublingual Immunotherapy. *Stat Med*. 2018; doi: 10.1002/sim.7857

WG Shreffler, JL Baumert, BC Remington, SJ Koppelman, C Dinakar, DM Fleischer, **EH Kim**, SA Tilles, JM Spergel. The Importance of Reducing risk in Peanut Allergy: Current and Future Therapies. *Ann Allergy Asthma Immunol*. 2018; 120:124-7. doi: 10.1016/j.anai.2017.10.038

JA Bird, J Spergel, S Jones, R Rachid, A Assa'ad, J Wang, SA Leonard, S Laubach, **EH Kim**, BP Vickery, BP Davis, J Heimall, A Cianferoni, AJ MacGinnitie, E Crestani, W Burks. Efficacy and Safety of AR101 in Oral Immunotherapy for Peanut Allergy: Results of ARC001, a Randomized, Double-blind, Placebo-controlled Phase-2 Clinical Trial. *J Allergy Clin Immunol In Pract*. 2018; doi: 10.1016/j.jaip.2017.09.016

A Hamad, OI Iweala, C Henderson, S Madan, GA Stouffer 3rd, SP Commins, **EH Kim**. Recurrent Anaphylaxis During Cardiac Catheterization Due to Ethylene Oxide. *J Allergy Clin Immunol Pract*. 2018; doi: 10.1016/j.jaip.2018.04.017

HX Chen, R Blasiak, **E Kim**, R Padilla, DA Culton. Triggers of Oral Lichen Planus Flares and the Potential Role of Trigger Avoidance in Disease Management. *Oral Surg Oral Med Oral Pathol Oral Radiol*. 2017; doi: 10.1016/j.oooo.2017.05.508

BP Vickery, JP Berglund, CM Burk, JP Fine, **EH Kim**, JI Kim, CA Keet, M Kulis, KG Orgel, R Guo, PH Steele, YV Virkud, P Ye, BL Wright, RA Wood, AW Burks. Early Oral Immunotherapy in Peanut-allergic Preschool Children is Safe and Highly Effective. *J Allergy Clin Immunol*. 2017; doi: 10.1016/j.jaci.2016.05.027

A Hamad, **EH Kim**. Early Introduction of Allergenic Foods is Safe and May Be Beneficial. *J Allergy Clin Immunol In Pract*. 2016; doi: 10.1016/j.jaip.2016.09.042

C Burk, M Kulis, N Leung, **EH Kim**, AW Burks, BP Vickery. Utility of Component Analyses in Subjects Undergoing Sublingual Immunotherapy for Peanut Allergy. *Clin Exp Allergy*. 2016; doi: 10.1111/cea.12635

SJ Chin, BP Vickery, MD Kulis, **EH Kim**, P Varshney, P Steele, J Kamilaris, AM Hiegel, SK Carlisle, PB Smith, AM Scurlock, SM Jones, AW Burks. Sublingual Versus Oral Immunotherapy for Peanut-allergic Children: A Retrospective Comparison. *J Allergy Clin Immunol*. 2013; doi: 10.1016/j.jaci.2013.02.017

MD Kulis, K Saba, **EH Kim**, JA Bird, N Kamilaris, BP Vickery, H Staats, AW Burks. Increased Peanut-specific IgA in Saliva Correlates with Food Challenge Outcomes Following Peanut Sublingual Immunotherapy. *J Allergy Clin Immunol*. 2012; doi: 10.1016/j.jaci.2011.11.045

EH Kim, JA Bird, MD Kulis, S Laubach, L Pons, WG Shreffler, PH Steele, J Kamilaris, BP Vickery, AW Burks. Sublingual Immunotherapy for Peanut Allergy: Clinical and Immunologic Evidence of Desensitization. *J Allergy Clin Immunol*. 2011; doi: 10.1016/j.jaci.2010.12.1083

TD Green, VS LaBelle, PH Steele, **EH Kim**, LA Lee, VS Mankad, LW Williams, KJ Anstrom, AW Burks. Clinical Characteristics of Peanut-allergic Children: Recent Changes. *Pediatrics*. 2007; doi: 10.1542/peds.2007-0350

N Danilova, VS Hohman, **EH Kim**, LA Steiner. Immunoglobulin Variable-region Diversity in the Zebrafish. *Immunogenetics*. 2000; doi: 10.1007/s002510000255

Refereed Published Abstracts

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- 11/15/2020 Medscape: “FDA-Approved Peanut Immunotherapy Protocol Comes With a Cost”,
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- 09/06/2019 MDmag.com: “Sublingual Peanut Immunotherapy Provides Long-Term Pediatric Benefit”, <https://www.mdmag.com/medical-news/sublingual-peanut-immunotherapy-pediatric>
- 09/06/2019 MedicalResearch.com: “LONG-TERM SUBLINGUAL PEANUT IMMUNOTHERAPY OFFERS SIGNIFICANT PROTECTION AGAINST ALLERGIC REACTIONS”, <https://medicalresearch.com/allergies/long-term-sublingual-peanut-immunotherapy-offers-significant-protection-against-allergic-reactions/51128/>
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- 09/04/2019 Daily Mail: “Hope for people with peanut allergies as study finds liquid drops of the nut’s protein under the tongue builds up resistance against the common allergen”, <https://www.dailymail.co.uk/health/article-7426957/New-treatment-prevent-deadly-peanut-allergies.html>
- 09/04/2019 Science News: “Liquid mouth drops could one day protect people from peanut allergies”, <https://www.sciencenews.org/article/oral-drops-could-one-day-protect-people-peanut-allergies>
- 08/05/2019 Undark: “Why Parents Are Turning to a Controversial Treatment for Food Allergies”, <https://undark.org/article/oral-immunotherapy-food-allergies/>
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- 02/24/2019 AAAAI annual meeting press conference: “Dosing and Safety of Peanut Food Equivalents After Immunotherapy Trials”
- 07/20/2018 The News & Observer: “Hope for peanut allergies? Pills, patches, drops and even nuts

- themselves are being studied”,
<https://www.newsobserver.com/news/local/article214372249.html>
- 05/04/2018 Spring 2018 UNC Children’s Board of Visitors Meeting: “UNC Food Allergy Initiative”
- 05/2018 Infectious Diseases in Children: “Immunotherapy options: A future for children with food allergy”, <https://www.healio.com/pediatrics/allergy-asthma-immunology/news/print/infectious-diseases-in-children/%7B6cb509d9-7a70-4e59-8841-dfd5abbb70e3%7D/immunotherapy-options-a-future-for-children-with-food-allergy>
- 04/06/2018 Knowable Magazine from Annual Reviews: “Beating Back Peanut Allergy, Bit by Bit”, <https://www.knowablemagazine.org/article/health-disease/2018/beating-back-peanut-allergy-bit-bit>
- 03/04/2018 Medscape Allergy and Clinical Immunology: “First Response” CME video media activity – “Advances in Peanut Allergy: Views and Perspectives from Orlando 2018”
- 08/29/2017 UNC Dept. of Medicine Chair’s Corner podcast: “Food Allergy & Sensitivity”, <https://www.med.unc.edu/medicine/news/chairs-corner/podcasts/food-allergy-sensitivity>
- 08/23/2017 ABC11: “Tips for parents of kids with food allergies”, <http://abc11.com/food/tips-for-parents-of-kids-with-food-allergies-/2334795>
- 04/20/2017 UNC REX Health Talk on Facebook Live: “Food Allergies 101”, <https://www.facebook.com/RexHealthcare/videos/1557361824274861/>
- 01/17/2017 UNC Hospitals Monthly Department Heads Meeting: “UNC Food Allergy Initiative”
- 01/05/2017 WRAL: “New advice: peanuts in baby’s diet can prevent scary allergy”, <http://www.wral.com/giving-peanut-based-foods-to-babies-early-prevents-allergies/16401974/>
- 08/11/2016 WITN: “UNC researchers believe they’ve discovered peanut allergy treatment”, <http://www.witn.com/content/news/UNC-researchers-believe-theyve-discovered-peanut-allergy-treatment-389937982.html>
- 07/28/2016 The New Reddit Journal of Science: “Food Allergies – AMA”; 9.28 million total reach, 12123 users clicked, 6208 upvotes.
- 10/12/2013 Food allergy research and education (FARE): Honorary medical chair for the Triangle FARE walk for food allergy
- 04/30/2013 WRAL: “Law would expand EpiPen access in schools”
- 03/06/2013 NBC-17 “My Carolina Today” TV interview: “Seasonal allergies”
- 09/25/2012 Newsradio 680 WPTF: “Fall allergies”, live radio interview
- 06/2012 Health and Healing in the Triangle magazine: “Relieving allergies, immunology issues”
- 05/07/2012 North Carolina Food Allergy Children Excelling Safely (NC FACES) patient advocacy group lecture: “Update on food allergy treatment research”
- 04/25/2012 April Heels-in-motion mall-walking program lecture: “Hay fever”
- 04/16/2012 WRAL-5 “Rex on call” TV broadcast: “Allergies”

Teaching Activities

Teaching roles with Trainees/Students

UNC Allergy and Immunology Fellowship: Program director, continuity clinic preceptor, 2015 – present
 UNC Internal Medicine residency elective – Allergy and Immunology: Faculty supervisor, 2015 – 2020
 UNC Pediatric residency elective – Allergy and Immunology: Faculty supervisor, 2014 – 2020
 MS4 course MEDI523/PEDS440 – Allergy and Immunology (med/peds) elective; advanced clinical

selective: Course director, 2014 – 2020

MS3 course Community Based Longitudinal Care (CBLC) – allergy subspecialty experience: Subspecialty supervisor, 2012 – 2021

MS2 Transition course: Small group preceptor, 2015 – 2018

MS1 MTEC 101 Immunology Block, “Hypersensitivity”: Lecturer, 2014 – 2022

MS1 Patient Centered Care course: Small group tutor, 2014 – 2017

UNC AED premedical society shadowing program: Subspecialty supervisor

Fellowship Didactics – Journal club preceptor:

09/14/2022 Sublingual Immunotherapy for Food Allergy
10/20/2021 Diagnostic approach to food allergy
06/02/2021 Contact dermatitis
07/30/2020 Sustained unresponsiveness with peanut OIT: The POISED study
10/30/2019 Update on extensively heated egg and egg allergy
03/13/2019 Update on chronic spontaneous urticaria
12/12/2018 Component resolved diagnostics in food allergy
09/26/2018 Update on food immunotherapy
05/02/2018 Hypereosinophilic syndrome
01/18/2018 Xolair in the treatment of food allergy
12/06/2017 Clinical research designs
10/11/2017 Mechanisms of omalizumab in the treatment of CIU
02/15/2017 Alternative forms of immunotherapy
10/05/2016 Food sublingual immunotherapy
09/07/2016 Venom immunotherapy
05/04/2016 Baked egg oral immunotherapy
01/20/2016 Life after Xolair
10/07/2015 Learning Early About Peanut Allergy (LEAP)
09/16/2015 Sublingual Immunotherapy
03/25/2015 Fire ant anaphylaxis
12/03/2014 Chronic granulomatous disease
09/17/2014 Aspirin exacerbated respiratory disease (AERD)
06/27/2014 Specific antibody deficiency
04/11/2014 Intradermal allergy testing
01/10/2014 DiGeorge syndrome
08/16/2013 Baked egg oral immunotherapy
02/13/2013 Sublingual immunotherapy for allergic diseases
11/28/2012 Aspirin exacerbated respiratory disease (AERD)
09/26/2012 Hyper IgE syndrome
08/22/2012 Review of NIAID-sponsored expert panel food allergy guidelines
07/25/2012 Omalizumab in allergic diseases
06/13/2012 Common variable immunodeficiency (CVID)
05/23/2012 Common variable immunodeficiency (CVID)
02/22/2012 Clinical research designs
01/25/2012 Chronic idiopathic urticaria (CIU)
12/21/2011 Chronic idiopathic urticaria (CIU)
11/30/2011 Severe combined Immunodeficiency (SCID)

10/26/2011 Chronic granulomatous disease

Grand Rounds – Within UNC

- 04/07/2021 Update on the Diagnostic Approach to Food Allergy. UNC Otolaryngology Grand Rounds. (virtual)
- 08/27/2020 Oral Immunotherapy: How We Got Here and Where We Go Next. UNC Department of Pediatrics Virtual Grand Rounds. (virtual)
- 04/03/2020 Food Immunotherapy. UNC Rheumatology, Allergy and Immunology Virtual Grand Rounds. (virtual)
- 03/21/2019 Immunotherapy for the Treatment of Peanut Allergy. UNC Department of Pathology Grand Rounds.
- 03/20/2019 Immunotherapy for Food Allergy. UNC Otolaryngology Grand Rounds.
- 03/22/2018 Drug Allergies Affecting the Care of Inpatients. UNC Department of Medicine Grand Rounds.
- 08/31/2017 General Pediatrician as Food Allergist? Review of the LEAP study for Peanut Allergy. UNC Department of Pediatrics Grand Rounds.
- 04/15/2016 Learning Early About Peanut Allergy (LEAP). UNC Rheumatology, Allergy and Immunology Grand Rounds.
- 08/31/2012 Chronic urticaria and angioedema. UNC Rheumatology, Allergy and Immunology Grand Rounds.
- 04/29/2011 Evidence of Desensitization in a Study of Sublingual Immunotherapy for Peanut Allergy. UNC Rheumatology, Allergy and Immunology Grand Rounds.

Grand Rounds – Outside UNC

- 08/12/2022 Update on Immunotherapy for Food Allergy. NIH/NIAID Friday Grand Rounds. Bethesda, MD. (virtual)
- 12/10/2021 Food Immunotherapy in Young Children: Current and Future Options. Johns Hopkins Allergy Grand Rounds. Baltimore, MD. (virtual)
- 12/02/2021 Beyond OIT: What are the Options for Peanut Allergy. Rutgers New Jersey Medical School Allergy and Immunology Grand Rounds. Newark, NJ. (virtual)
- 01/10/2019 Emerging Therapies for Peanut Allergy. New Jersey Medical School Allergy & Immunology Grand Rounds. Newark, NJ.
- 10/17/2018 Basics of Food allergy. NC AHEC New Hanover Medical Center Internal Medicine Grand

Rounds. Wilmington, NC.

- 10/15/2015 Food immunotherapy: Where are we now? Achoo! What's New? Pediatric Allergy Update Conference. Children's Hospital of the King's Daughters. Norfolk VA.
- 12/17/2014 Nut-free, gluten-free, red meat-free living? Making sense of food allergies. NC AHEC New Hanover Medical Center Internal Medicine Grand Rounds. Wilmington, NC.
- 05/21/2013 Advances in the diagnosis and treatment of chronic urticaria. NC AHEC, Carolinas Medical Center Internal Medicine Grand Rounds. Charlotte, NC.

Continuing Education Lectures – Within UNC

- 06/29/2023 Food Allergies and Intolerances. UNC SOM MS1 Culinary Medicine Elective.
- 04/14/2023 Allergist's Approach to Chronic Urticaria. UNC Dermatology Didactic Lecture Series.
- 02/15/2023 Overview of Clinical Food Allergy. UNC Campus Health Services CME Lecture Series.
- 11/29/2022 Early intervention peanut immunotherapy – Updates from 2022 ACAAI annual scientific meeting. UNC Allergy and Immunology Wednesday Didactics. Chapel Hill, NC.
- 10/26/2022 Practical Review of Chronic Spontaneous Urticaria. UNC Campus Health Services CME Lecture Series.
- 10/12/2022 Beyond OIT: Food Allergy Treatments in the Pipeline. UNC Allergy and Immunology Wednesday Didactics. Chapel Hill, NC.
- 10/04/2022 Beyond OIT: Food Allergy Treatments in the Pipeline. Course SOCM 89-001-Food Allergies in Everyday Life.
- 07/29/2022 Allergic Emergencies/Anaphylaxis. UNC Pediatrics Residency Noon Conference-Acute Care Series. Chapel Hill, NC.
- 07/13/2022 Case-based Overview of Subcutaneous Immunotherapy Prescribing. UNC Allergy and Immunology Wednesday Didactics. Chapel Hill, NC.
- 11/12/2021 Therapeutics in Development for Food Allergy. UNC Pediatrics Residency Noon Conference. (virtual)
- 10/15/2021 Immunology – Day in the Life. UNC Internal Medicine Interest Group monthly series. (virtual)
- 09/13/2021 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 07/06/2021 Approach to Food Allergy. UNC Allergy and Immunology Boot Camp.

- 04/12/2021 AHAA COVID-19 vaccine panel discussion. UNC Asian Health Advocacy Alliance meeting. (virtual)
- 09/14/2020 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 07/10/2020 Approach to Food Allergy. UNC Allergy and Immunology Boot Camp. (virtual)
- 06/04/2020 Update on Food Allergy Research. UNC SOM MS1 Culinary Medicine Elective.
- 09/16/2019 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 07/24/2019 Food Allergy. UNC Allergy and Immunology Boot Camp.
- 04/05/2019 Immunotherapy for Food Allergy. UNC Medical Alumni Council spring meeting.
- 09/24/2018 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 03/11/2018 The Food Allergy Epidemic: Current Landscape and Future Directions. 2018 UNC Kenan-Flagler Business School Wellness Day Keynote Lecture.
- 03/10/2018 How clinicians and researchers are collaborating at UNC to develop treatments for debilitating food allergies. 2018 UNC Translational Medicine Symposium.
- 01/24/2018 Penicillin Allergy. UNC Pediatrics Residency Noon Conference.
- 01/19/2018 Basics of Food Allergy. UNC Pediatrics Residency Noon Conference.
- 09/18/2017 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 08/23/2017 Pitfalls and Pearls in the Diagnosis and Treatment of Food Allergy. UNC Allergy and Immunology Boot Camp.
- 08/22/2017 Update on Local Anesthetic Allergy. UNC Division of Obstetric Anesthesia faculty meeting.
- 02/05/2017 Overview of Angioedema. UNC Internal Medicine Noon Conference.
- 09/19/2016 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 08/17/2016 Immunotherapy for the treatment of food allergy. UNC Gillings Department of Nutrition Continuing Education Webinar Series.
- 08/17/2016 Pitfalls and pearls in the diagnosis of food allergy. UNC Gillings Department of Nutrition Continuing Education Webinar Series.
- 09/21/2015 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.

- 06/16/2015 Overview of drug allergy. UNC Internal Medicine Noon Conference.
- 09/22/2014 Hypersensitivity. UNC School of Medicine, TEC Foundation Phase – Immunology block.
- 07/09/2014 Chronic Urticaria and Angioedema. UNC Allergy and Immunology Boot Camp.
- 03/25/2014 Food allergy: diagnostic and therapeutic challenges. UNC Eschelman School of Pharmacy Noon Lecture Series.
- 10/17/2012 Update on sublingual immunotherapy for peanut allergy. UNC Allergy and Immunology Seminar Series.

Continuing Education Lectures – Outside UNC

- 07/19/2023 Exploring Emerging Food Allergy Treatments: At the Cutting Edge of Care. Medscape CME & Education.
- 06/11/2023 Early oral immunotherapy in peanut-allergic children: remission as main outcome. European Academy of Allergy and Clinical Immunology 2023 EAACI Hybrid Congress. Hamburg, Germany. (Plenary)
- 05/21/2023 Updates on Peanut Immunotherapy. North Carolina Allergy, Asthma & Immunology Society 2023 Annual Meeting. Charlotte, NC.
- 04/18/2023 Overview of clinical food allergy. Central Regional Hospital Medical Lecture Series. Butner, NC. (virtual)
- 04/11/2023 Primary Immune Deficiencies in Adults. Central Regional Hospital Medical Lecture Series. Butner, NC. (virtual)
- 02/24/2023 Oral Immunotherapy After Reaching Maintenance. 2023 American Academy of Allergy, Asthma and Immunology annual meeting. San Antonio, TX.
- 02/24/2023 Oral Immunotherapy Conundrums. 2023 American Academy of Allergy, Asthma and Immunology annual meeting. San Antonio, TX.
- 02/24/2023 Hot Topics Discussions Sessions: Food Allergy. 2023 American Academy of Allergy, Asthma and Immunology annual meeting. San Antonio, TX.
- 12/14/2022 The Latest from Louisville 2022 – Utilizing Recent Data to Improve Care for Patients with Peanut Allergy. Physician’s Education Resource CME webcast. (virtual)
- 12/07/2022 Immunotherapy for Food Allergy. Boston Medical Center Allergy/Immunology Fellowship Didactics. Boston, MA. (virtual)
- 11/14/2022 Will I Ever Use SLIT for My Food Allergic Patients? 2022 American College of Allergy,

- Asthma and Immunology Annual Scientific Meeting. Louisville, KY.
- 09/22/2022 SLIT for Peanut Allergy. 2022 North American Pediatric Allergy & Asthma Congress. Quebec City, Canada.
- 05/18/2022 Where are We in 2022? What Does the Latest Data Tell Us About the Incidence and Prevalence of Paediatric Food Allergy? Nutricia Paediatric Food Allergy Expert Day Meeting. (virtual)
- 05/17/2022 On the Horizon, Therapies and Treatments (Hopefully) Coming Soon. 2022 FARE Courage at Congress. (virtual)
- 05/04/2022 The Future of Food Allergy: Novel Treatment Options on the Horizon. Physician's Education Resource CME webcast. (virtual)
- 04/20/2022 IMPACT/LEAP. American Academy of Allergy, Asthma and Immunology Allied Health Virtual Journal Club. (virtual)
- 02/25/2022 Food Allergy – Chrysalis Project Program. 2022 American Academy of Allergy, Asthma and Immunology annual meeting. Phoenix, AZ.
- 12/06/2021 Primary Immune Deficiencies in Adults. Central Regional Hospital Medical Lecture Series. Butner, NC. (virtual)
- 09/17/2021 Update on Therapies for Food Allergy. 2021 Children's Mercy Kansas City/ACAAI Conferences On-Line Allergy (COLA) conference series.
- 08/24/2021 Update of COVID-19 Vaccine Allergic Reactions. Central Regional Hospital Medical Lecture Series. Butner, NC. (virtual)
- 07/21/2021 Discussing Sublingual Immunotherapy in Clinical Development: Key Considerations. Next Generation Food Allergy Drug Development Summit. (virtual)
- 06/11/2021 Mechanisms and Routes of Immunotherapy for Food Allergy. Symposium on Specific Allergy, eSOSA 2021. (virtual)
- 05/22/2021 Food Immunotherapy. North Carolina Allergy, Asthma & Immunology Society 2021 Virtual Annual Meeting. (virtual)
- 02/20/2021 Update on Food Allergy – Chrysalis Project Program. 2021 American Academy of Allergy, Asthma and Immunology Virtual Annual Meeting. (virtual)
- 02/20/2021 Hot Topic Discussion Session: Food Allergy – Chrysalis Project Program. 2021 American Academy of Allergy, Asthma and Immunology Virtual Annual Meeting. (virtual)
- 01/12/2021 Review of Allergy Concerns with the COVID-19 Vaccines. Central Regional Hospital

- Medical Lecture Series. Butner, NC. (virtual)
- 12/01/2020 Update on Chronic Idiopathic Urticaria. Central Regional Hospital Medical Lecture Series. Butner, NC. (virtual)
- 11/13/2020 FDA-approved Oral Immunotherapy. 2020 American College of Allergy, Asthma and Immunology Annual Scientific Meeting. (virtual)
- 10/02/2020 Update on Food Allergy Research and Treatment. 2020 Children's Mercy Kansas City/ACAAI Conferences On-Line Allergy (COLA) conference series. (virtual)
- 09/22/2020 Peanut Sublingual Immunotherapy Induction of Clinical Tolerance of Newly Diagnosed Peanut Allergic 12 to 48-Month-Old Children. FARE Contains: Courage® Research Retreat. (virtual)
- 09/20/2020 Peanut Oral Immunotherapy: Practical Considerations. 2020 Southeastern Allergy, Asthma and Immunology Society 2020 Annual Meeting, Gulf Springs, AL. (virtual)
- 09/20/2020 Food Allergy Treatment Options. 2020 Southeastern Allergy, Asthma and Immunology Society 2020 Annual Meeting. Gulf Springs, AL. (virtual)
- 03/13/2020 Peanut OIT from the Research Perspective. 2020 American Academy of Allergy, Asthma and Immunology Annual Meeting. Philadelphia, PA. (virtual)
- 11/19/2019 Non-IgE mediated Drug Allergies Affecting the Care of Inpatients. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 11/08/2019 Implementing Food Allergy Therapy in Clinical Practice. 2019 American College of Allergy, Asthma and Immunology Annual Meeting. Houston, TX.
- 11/07/2019 Treatment Updates: What are our Present Options? 2019 American College of Allergy, Asthma and Immunology Annual Meeting. Houston, TX.
- 10/30/2019 Overview of Angioedema. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 09/28/2019 Food Allergy Primer. Chapel Hill Pediatrics: Listen, Learn, & Share. Chapel Hill, NC.
- 09/13/2019 Update on Food Allergy Research. 2019 Children's Mercy Kansas City/ACAAI Conferences On-Line Allergy (COLA) conference series. (virtual)
- 06/25/2019 Overview of Humoral Immune Deficiency in Adults. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 03/20/2019 Immunotherapy for Peanut Allergy: Retraining the Allergic Immune System. Durham Technical Community College Spring 2019 Science Seminar Series. Durham, NC.

- 02/25/2019 SLIT: Efficacy and Patient Selection. 2019 American Academy of Allergy, Asthma and Immunology annual meeting. San Francisco, CA.
- 02/23/2019 Tips and Tricks on Teaching a New Generation of Learner. 2019 American Academy of Allergy, Asthma and Immunology annual meeting. San Francisco, CA.
- 01/08/2019 Emerging Therapies for Peanut Allergy. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 11/27/2018 Drug Allergies Affecting the Care of Inpatients. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 11/18/2018 The Pros and Cons of EPIT for Peanut. 2018 American College of Allergy, Asthma and Immunology annual meeting. Seattle, WA.
- 11/03/2018 Food Allergy 101. FARECon featuring Teen Summit 2018. Arlington, VA.
- 10/26/2018 Update on Food Allergy Research. 2018 Children's Mercy Kansas City/ACAAI Conferences On-Line Allergy (COLA) conference series. (virtual)
- 09/28/2018 Overview and Update on Immunotherapy for Food Allergy. New Jersey Allergy, Asthma and Immunology Society annual meeting. Oyster Bay, NJ.
- 06/23/2018 Overview and Update on Immunotherapy for Food Allergy. Louisiana Society of Allergy, Asthma & Immunology annual meeting. New Orleans, LA.
- 03/02/2018 Food Allergy – Chrysalis Project Program. 2018 American Academy of Allergy, Asthma and Immunology annual meeting. Orlando, FL.
- 01/23/2018 Review of Food Allergy and Future Therapies. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 10/17/2017 Overview of Chronic Idiopathic Urticaria. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 10/01/2017 Overview and Update on Immunotherapy for Food Allergy. Illinois Society of Allergy, Asthma and Immunology annual meeting. Chicago, IL.
- 09/15/2017 Update on Food Allergy Research. 2017 Children's Mercy Kansas City/ACAAI Conferences On-Line Allergy (COLA) conference series. (virtual)
- 09/12/2017 Innovative Approaches to Food Desensitization. 2017 Current Views in Allergy, Asthma and Immunology (Vol 45) program. Augusta University. (virtual)
- 06/01/2017 Food Allergy Update. 2017 Eastern Allergy Conference. Palm Beach, FL.

- 06/01/2017 Pro/Con Debate: Is oral peanut desensitization ready for mainstream use in clinical practice? 2017 Eastern Allergy Conference. Palm Beach, FL.
- 03/14/2017 I can't stop itching, help! Overview of pruritus. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 02/16/2017 Updates on the Diagnosis and Treatment of Food Allergy. Duke Diet and Fitness Center guest lecture series. Durham, NC.
- 12/06/2016 Overview of Angioedema. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 12/01/2016 Historical overview of immunotherapy and the emerging treatment landscape in peanut allergy. Aimmune Investor Research Symposium. New York, NY.
- 10/04/2016 An Overview of Drug Allergy. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 04/30/2016 Charlotte Parents of Allergic Kids (PAK) 10th anniversary Education Symposium: "An Update on Immunotherapy for Food Allergy"
- 12/15/2015 Food Allergy: Diagnosis and Innovations in Treatment. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 08/04/2015 An Overview of Urticaria and Angioedema. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 07/14/2015 An Overview of Drug Allergy. Central Regional Hospital Medical Lecture Series. Butner, NC.
- 03/18/2015 Update on angioedema. Charlotte AHEC and UNC SOM 39th annual Internal Medicine Conference, Chapel Hill, NC.
- 03/21/2014 Reactions to food: Sorting out allergy from the rest. Charlotte AHEC and UNC SOM 38th annual Internal Medicine Conference, Chapel Hill, NC.
- 01/22/2014 Alternative forms of immunotherapy. Duke Allergy and Immunology Wednesday Seminar Series. Durham, NC.
- 10/23/2013 MIT Club of Research Triangle Park dinner lecture: "Food for Thought: An Evening with Dr. Edwin Kim"
- 05/22/2013 NC food allergy children excelling safely (NC FACES) advocacy group lecture: "Anaphylaxis management"
- 02/22/2013 Difficult Cases: Oral Food Challenges. 2013 American Academy of Allergy, Asthma and Immunology annual meeting. San Antonio, TX.

04/04/2012 Chronic urticaria and angioedema. Duke Allergy and Immunology Wednesday Seminar Series, Durham, NC.

03/14/2012 Urticaria and angioedema for the internist. Charlotte AHEC and UNC SOM 36th annual Internal Medicine Conference, Chapel Hill, NC.

Research Grants

Active

Efficacy of Tezepelumab in Peanut Oral Immunotherapy: a Double-Blind, Randomized, Placebo-controlled Trial (ZENITH study)

Benaroya Research Institute subaward (Immune Tolerance Network); Protocol chair

Safety and Tolerability of Shrimp Oral Immunotherapy

Baylor College of Medicine subaward; Co-investigator

Exploring the Ethical Dimensions of Peanut Allergy Immunotherapy Research

NIH/NIAID; Co-investigator

Consortium for Food Allergy Research (CoFAR): Systems Biology of Early Atopy (SUNBEAM)

Johns Hopkins University subaward; Principal investigator

Consortium for Food Allergy Research (CoFAR): Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Children and Adults (OUTMATCH)

Johns Hopkins University subaward; Principal investigator

Consortium for Food Allergy Research (CoFAR): Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Children and Adults (OUTMATCH)

Genentech; Principal investigator

FARE Clinical Network – FCN

Food Allergy Research and Education (FARE); Principal investigator

Consortium for Food Allergy Research (CoFAR): Clinical Research Unit

NIH/NIAID; Principal investigator

Completed

COVID-19-004 / Systemic Allergic Reaction to SARS-COV-2 Vaccination

Benaroya Research Institute; Co-investigator

FARE Clinical Center of Excellence

Food Allergy Research and Education (FARE); Principal investigator

Peanut Immunotherapy Trial Sublingual (PITS)

Food Allergy Research and Education (FARE); Co-investigator

Sublingual Immunotherapy for Peanut Allergy
NIH/NIAID; Co-investigator

IMPACT Oral Immunotherapy for Induction of Tolerance and Desensitization in Peanut-Allergic Children
Benaroya Research Institute (Immune Tolerance Network); Co-investigator

Immunobiology of Food Allergy and its Treatment
Icahn School of Medicine at Mount Sinai subaward; Co-investigator

Understanding the Mechanism of Mucosal Immunotherapy
NIH/NIAID; Co-investigator

Clinical Trials

Active

Tolerability and safety of an up-dosing regimen with a once daily peanut SLIT-tablet in adults, adolescents, and children with peanut allergy
ALK-Abello; Principal Investigator, International Coordinating Investigator

A 52 week, multi-center, randomized, double-blind placebo-controlled study to assess the clinical efficacy and safety of ligelizumab (QGE031) in decreasing the sensitivity to peanuts in patients with peanut allergy
Novartis; Principal investigator

Open-label extension study to evaluate the long-term clinical benefit and safety of DBV712 in peanut-allergic children (EPOPEX study)
DBV Technologies; Principal investigator

A multi-center, open-label, long-term safety study of AR101 characterized oral desensitization immunotherapy in subjects who participated in a prior AR101 study (ARC008 study)
Aimmune Therapeutics; Principal investigator

Completed

A double-blind, placebo-controlled, randomized phase III trial to assess the safety and efficacy of Viaskin® Peanut in peanut-allergic young children 1-3 years of age (EPITOPE study)
DBV Technologies; Principal investigator

A Phase 1/2, Randomized, Double-Blind, Placebo-Controlled Study Evaluating the Efficacy and Safety of ADP101 for Oral Immunotherapy in Food-Allergic Children and Adults (The Harmony Study)
Alladapt Immunotherapeutics, Inc; Principal investigator

Peanut oral immunotherapy study of early intervention for desensitization (ARC005 study)
Aimmune Therapeutics; Principal investigator

Real-world AR101 market-supporting experience study in peanut-allergic children, active treatment arm open-label extension study (ARC011 RAMSES OLE study)

Aimmune Therapeutics; Principal investigator

A phase 2, multi-center, randomized, double-blind, placebo-controlled study in pediatric subjects with peanut allergy to evaluate the efficacy and safety of Dupilumab and adjunct to peanut oral immunotherapy (R668-ALG-16114 study)

Regeneron Pharmaceuticals; Principal investigator

Open-label follow-up study of the PEPITES study to evaluate the long-term efficacy and safety of Viaskin® peanut (PEOPLE study)

DBV Technologies; Principal investigator

A phase 2, double-blind, placebo-controlled, parallel group, multiple dose study to investigate Etokimab (ANB020) in adult subjects with chronic rhinosinusitis with nasal polyposis (ANB020-006 study)

AnaptysBio; Principal investigator

Real-world AR101 market-supporting experience study in peanut-allergic children ages 4 to 17 years (ARC007 RAMSES study)

Aimmune Therapeutics; Principal investigator

Peanut allergy oral immunotherapy study of AR101 for desensitization in children and adults (PALISADE) follow-on study (ARC004 study)

Aimmune Therapeutics; Principal investigator

Long-term assessment of safety and therapeutic benefit of Viaskin® Peanut epicutaneous treatment in peanut-allergic children: A 6 month randomization, double-blind, placebo-controlled phase III study followed by an open label active treatment (REALISE study)

DBV Technologies; Principal investigator

Determination of Hypoallergenicity of an Extensively Hydrolyzed Infant Formula in Infants and Children with Cow's Milk Allergy

Abbott Nutrition; Principal investigator

A randomized, double-blind, placebo-controlled, multi-centre study to assess the safety, tolerability and pharmacodynamics of HAL-MPE1 subcutaneous immunotherapy in adult and pediatric subjects with peanut allergy

HAL Allergy, Principal investigator

A Phase 1, Randomized, Placebo Controlled study to Evaluate Safety, Tolerability and Immune Response in Adults Allergic to Peanut after Receiving Intradermal or Intramuscular Administration of ASP0892 (ARA LAMP vax), a single Multivalent Peanut (Ara h1, h2, h3) Lysosomal Associated Membrane Protein DNA Plasmid Vaccine

Astellas Pharma Global Development, Principal investigator

A Double-blind, Placebo-controlled, Randomized Phase 3 Pivotal Trial to Assess the Efficacy and Safety of Peanut Epicutaneous Immunotherapy With Viaskin Peanut in Peanut-allergic Children (PEPITES)

study)

DBV Technologies; Principal investigator

Peanut allergy oral immunotherapy study of AR101 for desensitization in children and adults (PALISADE study)

Aimmune Therapeutics; Principal investigator

Oral Desensitization to Peanut in Peanut-Allergic Children and Adults using Characterized Peanut Allergen (CPNA) Oral Immunotherapy (OIT) Safety Follow-On Study (ARC002)

Aimmune Therapeutics; Co-investigator

Professional Service

Service to Discipline – Committees

02/2023 – present Secretary, AAAAI Food Allergy and Eosinophilic Disorders Interest Section
02/2023 – present Chair, AAAAI Clinical Rotation Committee
02/2023 – present Chair, AAAAI Continuing Certification and Professional Education Committee
08/2021 – present Member, Safety Review Committee, Allergy Therapeutics Ltd
02/2021 – 02/2023 Vice chair, AAAAI Clinical Rotation Committee
02/2021 – 02/2023 Vice chair, AAAAI Continuing Certification and Professional Education Committee
02/2021 – present Member, AAAAI Office of Medical Education
10/2019 – present Member, US FDA Pulmonary-Allergy Drugs Advisory Committee (PADAC)
02/2019 – present Ad-hoc DSMB member, National Institute of Allergy and Infectious Diseases
03/2018 – present Member, World Allergy Organization (WAO) WinAIT committee
09/2012 – 02/2023 Member, AAAAI Food allergy and Eosinophilic Disorders Interest Section
02/2019 – 02/2021 Executive committee: Pediatric counselor, AAAAI Program Directors Assembly
05/2017 – 02/2021 Member, AAAAI Clinical Rotation Committee
04/2016 – 02/2021 Member, AAAAI CME/MOC Committee
03/2014 – 04/2016 Member, AAAAI Needs Assessment and Outcomes Committee

Service to Discipline – Editorial Appointments

Editorial board: Journal of Allergy and Clinical Immunology In Practice
Section editor: Current Allergy and Asthma Reports (term completed)
Ad hoc reviewer: Journal of Allergy and Clinical Immunology; Annals of Asthma, Allergy and Immunology; Allergy; BMJ Open; Case Reports in Pediatrics; Expert Review of Clinical Immunology; Immunology; International Archives of Allergy and Immunology; Journal of Food Allergy; Lancet Child and Adolescent Health; Pediatric Allergy and Immunology; PLOS ONE

Service to Discipline – Review Panels

08/2023 Department of Defense (DOD) Congressionally Directed Medical Research Programs (CDMRP) Peer Reviewed Medical Research Program (PRMRP): Food Allergies-Celiac Disease (FA-CD)
10/2022 Department of Defense (DOD) Congressionally Directed Medical Research Programs (CDMRP) Peer Reviewed Medical Research Program (PRMRP): Food Allergies-Nutritional Optimization-Mitochondrial Diseases (CT-FA-NM)
10/2021 Department of Defense (DOD) Congressionally Directed Medical Research Programs

(CDMRP) Peer Reviewed Medical Research Program (PRMRP): Food Allergies-Clinical Trials (CT-FA)

07/2021 Department of Defense (DOD) Congressionally Directed Medical Research Programs (CDMRP) Peer Reviewed Medical Research Program (PRMRP): Food Allergies (FA)

Service to University

02/2022 – present Member, UNC SOM Clinical Research Support Office (CRSO) advisory committee
09/2020 UNC SOM ad-hoc 5-year center review committee
04/2018 – 06/2021 Medical Director Member, Department of Medicine Outpatient Leaders Group
06/2016 – present Physician Champion – UNC Grateful Patient Program
01/2014 – 06/2021 Member, Thurston Arthritis Research Center and Division of Rheumatology, Allergy & Immunology 5-year Strategic Plan – Education Committee
06/2015 – 12/2015 Member, Carolina Value – School of Medicine Technology Transfer
09/2014 – 02/2015 Implementation Team Member, Academy of Educators – School of Medicine EPIC Utilization Committee
03/2014 – 04/2014 Superuser, Epic@UNC Project
08/2013 – 04/2014 Subject Matter Expert, Adult and Pediatric Allergy, Epic@UNC Project
07/2013 – 02/2014 Member, UNC – Streamlining the Referral Process Task Force
07/2013 – 02/2014 Member, UNC – Provider Review of Referrals Task Force