R. Sharon Chinthrajah
Associate Professor of Medicine (Sean Parker Center for Allergy and Asthma Research - Clinic) and of Pediatrics

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Bio

CLINICAL FOCUS
• Food Allergy
• Asthma
• Allergy and Immunology

ACADEMIC APPOINTMENTS
• Associate Professor - University Medical Line, Medicine
• Associate Professor - University Medical Line, Pediatrics - Allergy and Clinical Immunology
• Clinical Associate Professor, Pediatrics - Immunology and Allergy
• Member, Maternal & Child Health Research Institute (MCHRI)

PROFESSIONAL EDUCATION
• Residency: California Pacific Medical Center Dept of Medicine (2008) CA
• Board Certification: Allergy and Immunology, American Board of Internal Medicine (2014)
• Fellowship: Boston Medical Center (2013) MA
• Board Certification: Critical Care Medicine, American Board of Internal Medicine (2012)
• Fellowship: Boston Medical Center (2011) MA
• Board Certification: Pulmonary Disease, American Board of Internal Medicine (2010)
• Medical Education: Drexel University College of Medicine (2004) PA
Research & Scholarship

CLINICAL TRIALS
- Clinical Study Using Biologics to Improve Multi OIT Outcomes, Recruiting
- Dupilumab and Milk OIT for the Treatment of Cow's Milk Allergy, Recruiting
- Food Allergy Registry at a Single Site, Recruiting
- Gastrointestinal STRING Test With Oral Immunotherapy, Recruiting
- Safety Study of Viaskin Peanut to Treat Peanut Allergy, Recruiting
- Systems Biology of Early Atopy, Recruiting
- Understanding Allergies and Sensitizations in Healthy and Allergic Individuals, Recruiting
- Omalizumab as Monotherapy and as Adjunct Therapy to Multi-Allergen OIT in Food Allergic Participants, Not Recruiting
- Remote Monitoring of Respiratory Health, Not Recruiting

Publications

PUBLICATIONS
- Current insights: a systemic review of therapeutic options for peanut allergy. *Current opinion in allergy and clinical immunology*
  O'Rourke, E., Tang, H., Chin, A., Long, A., Sindher, S., Chinthrajah, R. S.
  2022; 22 (3): 188-193
- Updated threshold dose-distribution data for sesame. *Allergy*
  Turner, P. J., Gretzinger, M., Patel, N., Brough, H., Chinthrajah, R. S., Ebisawa, M., Elizur, A., Koplin, J. J., Peters, R. L., Purington, N., Nowak-Wegrzyn, A., Saf, S., Sampson, et al
  2022
- Providing a safe nest for improved healthcare outcomes in pregnant women with asthma. *The journal of allergy and clinical immunology. In practice*
  Sindher, S. B., Fast, K., Nadeau, K. C., Chinthrajah, R. S.
  2022
- Early Introduction of Multi-Allergen Mixture for Prevention of Food Allergy: Pilot Study. *Nutrients*
  Quake, A. Z., Liu, T. A., D'Souza, R., Jackson, K. G., Woch, M., Tetteh, A., Sampath, V., Nadeau, K. C., Sindher, S., Chinthrajah, R. S., Cao, S.
  2022; 14 (4)
- Dose-related allergic adverse events during multi-food oral immunotherapy
  Gajare, P., Cao, S., Anderson, B., Lloret, M., Zedeck, S., Kost, L., Nadeau, K., Chinthrajah, S., Sindher, S., Long, A.
  MOSBY-ELSEVIER.2022: AB34
- Feasibility of Virtual Reality Technology to Improve Experience During Pediatric Oral Food Challenge
  Collins, W., Adlou, B., Rodriguez, A., Albarran, M., O'Neal, E., Weiss, T., Hsu, K., Sindher, S., Bailenson, J., Caruso, T., Chinthrajah, S.
  MOSBY-ELSEVIER.2022: AB108
- Addressing Food Insecurity and Improving Food Allergy Management among Pediatric Patient/Caregiver Dyads During the COVID Pandemic
  Albarran, M., Warren, C., Chinthrajah, S., Martinez, E., Casareno, L., Rodriguez, A., Brown, E., Hampton, Q., Martinez, K., Kost, L.
  MOSBY-ELSEVIER.2022: AB158
- Updating the CoFAR Grading Scale for Systemic Allergic Reactions in Food Allergy
  Chinthrajah, S., Jones, S., Kim, E., Sicherer, S., Shreffler, W., Lancer, B., Ari, N., Babineau, D., Adelman, D., Iqbal, A., Limh, S., Spergel, A., Togias, et al
  MOSBY-ELSEVIER.2022: AB107
- Self-reported food allergy-associated anxiety during oral immunotherapy declines with time
  Jiang, S., Cao, S., Collins, W., Fast, K., Hampton, Q., Landes, G., Martinez, K., Tang, H., Sindher, S., Chinthrajah, S.
  MOSBY-ELSEVIER.2022: AB140
• SARS-CoV-2 and Perceived Physical, Mental and Social Health in Northern California
  Fast, K., Lee, A., Hampton, Q., Chinthrajah, S., Sindher, S., Jia, X., Collins, W., Nadeau, K., Cao, S.
  MOSBY-ELSEVIER.2022: AB46

• Using Nevisense Go to Identify Skin Epithelial Barrier Defect
  Lewis, S., Adlou, B., Kost, L., Nadeau, K., Chinthrajah, S., Long, A., Fast, K., Sindher, S.
  MOSBY-ELSEVIER.2022: AB6

• Climate Change and Global Health: A Call to more Research and more Action. *Allergy*
  Agache, I., Sampath, V., Aguiler, A., Akdis, C., Akdis, M., Barry, M., Bouagnon, A., Chinthrajah, S., Collins, W., Dullitzki, C., Emy, B., Gomez, J., Goshua, et al
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• Efficacy and safety of oral immunotherapy in children aged 1-3 years with peanut allergy (the Immune Tolerance Network IMPACT trial): a randomised placebo-controlled study. *Lancet (London, England)*
  Jones, S. M., Kim, E. H., Nadeau, K. C., Nowak-Wegrzyn, A., Wood, R. A., Sampson, H. A., Scurlock, A. M., Chinthrajah, S., Wang, J., Pesek, R. D., Sindher, S. B., Kulis, M., Johnson, et al
  1800; 399 (10322): 359-371

• Durability of immune responses to the BNT162b2 mRNA vaccine *MED*
  Suthar, M. S., Arunachalam, P. S., Hu, M., Reis, N., Trisal, M., Raeber, O., Chinthrajah, S., Davis-Gardner, M. E., Manning, K., Mudvari, P., Boritz, E., Godbole, S., Henry, et al
  2022; 3 (1): 25-27

• Durability of immune responses to the BNT162b2 mRNA vaccine. *Med (New York, N.Y.)*
  Suthar, M. S., Arunachalam, P. S., Hu, M., Reis, N., Trisal, M., Raeber, O., Chinthrajah, S., Davis-Gardner, M. E., Manning, K., Mudvari, P., Boritz, E., Godbole, S., Henry, et al
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• Updating the CoFAR Grading Scale for Systemic Allergic Reactions in Food Allergy. *The Journal of allergy and clinical immunology*
  Chinthrajah, R. S., Jones, S. M., Kim, E. H., Sicherer, S. H., Shreffler, W., Lanzer, B. J., Atri, N., Babineau, D. C., Adelman, D. C., Iqbal, A., Limb, S. L., Rudman, Spiegel, A. K., Togias, et al
  2022

• Gastrointestinal T cells reveal differentially expressed transcripts and enriched pathways during peanut oral immunotherapy. *Allergy*
  Zhang, W., Krishna Dhondalay, G., Liu, T. A., Kaushik, A., Hoh, R., Kwok, S., Kambham, N., Fernandez-Becker, N. Q., Andorf, S., Desai, M., Galli, S. J., Boyd, S. D., Nadeau, et al
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• Efficacy and safety of oral immunotherapy in children aged 1-3 years with peanut allergy (the Immune Tolerance Network IMPACT trial): a randomised placebo-controlled study *LANCET*
  Jones, S. M., Kim, E. H., Nadeau, K. C., Nowak-Wegrzyn, A., Wood, R. A., Sampson, H. A., Scurlock, A. M., Chinthrajah, S., Wang, J., Pesek, R. D., Sindher, S. B., Kulis, M., Johnson, et al
  2022; 399 (10322): 359-371

• A phase 2, randomized multi oral immunotherapy with Omalizumab 'real life' study. *Allergy*
  Sindher, S. B., Kumar, D., Cao, S., Purington, N., Long, A., Sampath, V., Zedek, S. S., Woch, M. A., Garcia-Lloret, M., Chinthrajah, R. S.
  2022

• Immune imprinting, breadth of variant recognition, and germinal center response in human SARS-CoV-2 infection and vaccination. *Cell*
  Röltgen, K., Nielsen, S. C., Silva, O., Younes, S. F., Zaslavsky, M., Costales, C., Yang, F., Wirz, O. F., Solis, D., Hoh, R. A., Wang, A., Arunachalam, P. S., Colburg, et al
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• Oral Immunotherapy in Children: Clinical Considerations and Practical Management. *Journal of asthma and allergy*
  Anderson, B., Wong, L., Adlou, B., Long, A., Chinthrajah, R. S.
  2021; 14: 1497-1510

• Food allergy across the globe. *The Journal of allergy and clinical immunology*
  Sampath, V., Abrams, E. M., Adlou, B., Akdis, C., Akdis, M., Brough, H. A., Chan, S., Chatatee, P., Chinthrajah, R. S., Cocco, R. R., Deschildre, A., Eigenmann, P., Galvan, et al
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• Safety of Epicutaneous Immunotherapy in Peanut-Allergic Children: REALISE Randomized Clinical Trial Results. *The journal of allergy and clinical immunology. In practice*
Pongracic, J. A., Gagnon, R., Sussman, G., Siri, D., Oriel, R. C., Brown-Whitehorn, T., Green, T. D., Campbell, D. E., Anvari, S., Berger, W. E., Bird, J. A., Chan, E. S., Cheema, et al
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• Direct comparison of antibody responses to four SARS-CoV-2 vaccines in Mongolia. *Cell host & microbe*
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• Shrimp-Allergic Patients in a Multi-Food Oral Immunotherapy Trial. *Pediatric allergy and immunology: official publication of the European Society of Pediatric Allergy and Immunology*
Nguyen, D. I., Sindher, S. B., Chinthrajah, R. S., Nadeau, K., Davis, C. M.
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• New-onset IgG autoantibodies in hospitalized patients with COVID-19. *Nature communications*
Chang, S. E., Feng, A., Meng, W., Apostolidis, S. A., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al
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Warren, C. M., Snow, T. T., Lee, A. S., Shah, M. M., Heider, A., Blomkalins, A., Betts, B., Buzzancco, A. S., Gonzalez, J., Chinthrajah, R. S., Do, E., Chang, I., Dunham, et al
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• New-Onset IgG Autoantibodies in Hospitalized Patients with COVID-19
Chang, S., Feng, A., Meng, W., Apostolidis, S., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthrajah, S., Dhingra, et al
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• Asthma phenotypes, associated comorbidities, and long-term symptoms in COVID-19. *Allergy*
Eggert, L. E., He, Z., Collins, W., Lee, A. S., Dhondalay, G., Jiang, S. Y., Fitzpatrick, J., Snow, T. T., Pinsky, B. A., Artandi, M., Barman, L., Puri, R., Witman, et al
2021

• Improvement in health-related quality of life in food-allergic patients: a meta-analysis. *The journal of allergy and clinical immunology. In practice*
Cao, S., Borro, M., Alonzi, S., Sindher, S., Nadeau, K., Chinthrajah, R. S.
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• Accurate and Reproducible Diagnosis of Peanut Allergy Using Epitope Mapping. *Allergy*
Suarez-Farinas, M., Saprun, M., Kearney, P., Getts, R., Grishina, G., Hayward, C., Luta, D., Porter, A., Witmer, M., du Toit, G., Lack, G., Chinthrajah, R. S., Galli, et al
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• Novel application of a discrete time-to-event model for randomized oral immunotherapy clinical trials with repeat food challenges. *Statistics in medicine*
Purington, N., Andorf, S., Bunning, B., Chinthrajah, S., Nadeau, K., Desai, M.
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• H2-antagonist in IgE-mediated type I hypersensitivity reactions: what literature says so far? *Clinical and molecular allergy: CMA*
Borro, M., Negrini, S., Long, A., Chinthrajah, S., Murdaca, G.
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• Vaccines and Allergic reactions: the past, the current COVID-19 pandemic, and future perspectives. *Allergy*
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• Immune Changes Beyond Th2 Pathways During Rapid Multifofood Immunotherapy enabled with Omalizumab. *Allergy*
Manohar, M., Dunham, D., Gupta, S., Yan, Z., Zhang, W., Minnicozzi, S., Kirkey, M., Bunning, B., Chowdhury, R. R., Galli, S. J., Boyd, S. D., Kost, L. E., Chinthrajah, et al
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- SARS-CoV-2 infection and COVID-19 in asthmatics: a complex relationship. *Nature reviews. Immunology*
Skevaki, C., Karsonova, A., Karaulov, A., Fomina, D., Xie, M., Chinthrajah, S., Nadeau, K. C., Renz, H.
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- Transcriptionomics Of Gastrointestinal Biopsies During Oral Immunotherapy Reveals Changes In IgA Pathway
Dhondalay, G., Zhang, W., Hoh, R., Kambham, N., Boyd, S., Andorf, S., Manohar, M., Chinthrajah, S., Nadeau, K.
MOSBY-ELSEVIER.2021: AB166

- A positive perception of treatment and continued adherence to dosing in a long-term follow-up study in food allergic participants undergoing multi-food oral immunotherapy
Sindher, S., Kumar, D., Fitzpatrick, J., Cao, S., Long, A., Woch, M., Conn, T., Nadeau, K., Chinthrajah, S.
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- Understanding the impact of the COVID-19 pandemic on physical and mental health
Cao, S., Din, H., Warren, C., Fitzpatrick, J., Hernandez-Boussard, T., Desai, M., Chinthrajah, S., Nadeau, K.
MOSBY-ELSEVIER.2021: AB115

- Outcome of Double-Blind Placebo-Controlled Food Challenges in Shrimp-Sensitized Participants
Jiang, S., Kumar, D., Cao, S., Fitzpatrick, J., Long, A., Woch, M., Johansson, J., Nadeau, K., Chinthrajah, S., Sindher, S.
MOSBY-ELSEVIER.2021: AB88

- Mass Cytometry Reveals Immune Signatures Associated With Desensitization Through Multi-Food Oral Immunotherapy.
He, Z., Dunham, D., Zhou, X., Lyu, S., Manohar, M., Chinthrajah, S., Andorf, S., Nadeau, K.
MOSBY-ELSEVIER.2021: AB108

- Basophil activation tests identify a peanut OIT subgroup with improved safety and outcomes
Chinthrajah, S., Cao, S., Tsai, M., Mukai, K., Tibshirani, R., Sindher, S., Nadeau, K., Galli, S.
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- Virtual Reality Reduces Pediatric Anxiety During Food Allergy Clinical Trials: A Pilot Randomized, Pragmatic Study. *Frontiers in allergy*
Alonzi, S., Caruso, T. J., Sindher, S. B., Cao, S., Varadharajulu, S., Collins, W. J., Chinthrajah, R. S.
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- Bayesian Hierarchical Evaluation of Dose-Response for Peanut Allergy in Clinical Trial Screening. *Food and chemical toxicology : an international journal published for the British Industrial Biological Research Association*
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- Peanut can be used as a reference allergen for hazard characterization in food allergen risk management: A rapid evidence assessment and meta-analysis. *The journal of allergy and clinical immunology. In practice*
Turner, P. J., Patel, N., Ballmer-Weber, B. K., Baumert, J. L., Blom, W. M., Brooke-Taylor, S., Brough, H., Campbell, D. E., Chen, H., Chinthrajah, R. S., Crevel, R. W., Dubois, A. E., Ebisawa, et al
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2021

- Using data from food challenges to inform management of food-allergic consumers: a systematic review with individual participant data meta-analysis. *The journal of allergy and clinical immunology*
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- Long-term, open-label extension study of the efficacy and safety of epicutaneous immunotherapy for peanut allergy in children: PEOPLE 3-year results
  JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY
  Fleischer, D. M., Shreffler, W. G., Campbell, D. E., Green, T. D., Anvari, S., Assa'ad, A., Begin, P., Beyer, K., Bird, J., Brown-Whitehorn, T., Byrne, A., Chan, E. S., Cheema, et al
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  Bousquet, J., Akdis, C. A., Jutel, M., Bachert, C., Klimek, L., Agache, I., Ansotegui, I. J., Bedbrook, A., Bosnic-Anticevich, S., Canonica, G., Chivato, T., Cruz, A. A., Czarlewski, et al
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- Editorial: Insights Into the Etiology, Prevention, and Treatment of Food Allergy. Frontiers in immunology
  Oyoshi, M., Chinthrajah, R. S.
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- Transcriptional changes in peanut-specific CD4+ T cells over the course of oral immunotherapy. Clinical immunology (Orlando, Fla.)
  Wang, W., Lyu, S., Ji, X., Gupta, S., Manohar, M., Dhondalay, G. K., Chinthrajah, S., Andorf, S., Boyd, S. D., Tibshirani, R., Galli, S. J., Nadeau, K. C., Maecker, et al
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- Long-Term, Open-Label Extension Study of the Efficacy and Safety of Epicutaneous Immunotherapy for Peanut Allergy in Children: PEOPLE 3-Year Results. The Journal of allergy and clinical immunology
  Fleischer, D. M., Shreffler, W. G., Campbell, D. E., Green, T. D., Anvari, S., Assa'ad, A., Begin, P., Beyer, K., Bird, J. A., Brown-Whitehorn, T., Byrne, A., Chan, E. S., Cheema, et al
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  Bousquet, J., Jutel, M., Akdis, C. A., Klimek, L., Pfaar, O., Nadeau, K. C., Eiwegger, T., Bedbrook, A., Ansotegui, I. J., Anto, J. M., Bachert, C., Bateman, E. D., Bennoor, et al
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- Identification of cross-reactive allergens in cashew- and pistachio-allergic children during oral immunotherapy. Pediatric allergy and immunology : official publication of the European Society of Pediatric Allergy and Immunology
  He, Z., Dongre, P., Lyu, S., Manohar, M., Chinthrajah, R. S., Galii, S. J., DeKruyff, R. H., Nadeau, K. C., Andorf, S.
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- RNA-Seq of Gastrointestinal Biopsies During Oral Immunotherapy Reveals Changes in IgA Pathway
  Zhang, W., Dhondalay, G., Hoh, R., Tupa, D., Bunning, B., Fernandez-Becker, N., Kambham, N., Boyd, S., Galli, S., Andorf, S., Manohar, M., Chinthrajah, S., Nadeau, et al
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- A Phase 2 Study of Multi Oral Immunotherapy in Multi Food Allergic Patients to Test Immune Markers after Minimum Maintenance Dose using Xolair
  Sindher, S., Kumar, D., Purington, N., Tupa, D., Long, A., Cao, S., Woch, M., Tan, T., Lloret, M., Chinthrajah, S., Nadeau, K.
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- Quality Of Life in Patients with Food Allergy: A Systematic Review and Meta-Analysis of interventions Food Allergy Diagnosis and Immunotherapy Studies
  Cao, S., Borro, M., Sindher, S., Tupa, D., Long, A., Chinthrajah, S., Nadeau, K., Alonzi, S.
  MOSBY-ELSEVIER.2020: AB245

- The benefits of playing interactive games on virtual reality headsets during procedures in food allergy clinical trials
  Alonzi, S., Parikh, K., Varadharajulu, S., Chandra, S., Cao, S., Texeira, Z., Sindher, S., Nadeau, K., Chinthrajah, S.
Skin TEWL results show significant improvements with Trilipid emollient compared to controls in infants and young children
Nadeau, K., Sindher, S., Berdychev, E., Shoijnaga, M., Alkotob, S., Alonzi, S., Varadharajulu, S., Chandra, S., Chinthrajah, S., Brough, H., Chan, S., Lack, G., Leung, et al

Perceived Burden of Treatment and Quality of Life in Long-Term Follow Up after Oral Immunotherapy in Food Allergic Patients
Collins, W., Raeber, O., Tupa, D., Cao, S., Nadeau, K., Sindher, S., Chinthrajah, S.

Protein Composition Changes in Manufactured Penaeus aztecus Shrimp Powder
Chinthrajah, S., Johansson, J., Woch, M., Conn, T., Chen, E., Long, A., Lyu, S., Kumar, D., Sindher, S., Nadeau, K.

Sustained outcomes in oral immunotherapy for peanut allergy (POISED study): a large, randomised, double-blind, placebo-controlled, phase 2 study
Chinthrajah, S., Purington, N., Andorf, S., Long, A., O'Laughlin, K., Lyu, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Mukai, K., Tsai, M., Desai, et al

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Long, A., Purington, N., Andorf, S., O'Laughlin, K., Lyu, S., Sindher, S., Manohar, M., Boyd, S., Tibshirani, R., Maecker, H., Mukai, K., Tsai, M., Desai, et al

Peanut oral immunotherapy induces gastrointestinal eosinophilia in a longitudinal randomized controlled trial
Wright, B., Fernandez-Becker, N., Kammbam, N., Purington, N., Cao, S., Tupa, D., Zhang, W., Rank, M., Kita, H., Katzka, D., Shim, K., Bunning, B., Doyle, et al

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Tsai, M., Chinthrajah, S., Nadeau, K. C.
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Increased diversity of gut microbiota during active oral immunotherapy in peanut allergic adults. Allergy
He, Z. n., Vadali, V. G., Szabady, R. L., Zhang, W. n., Norman, J. M., Roberts, B. n., Tibshirani, R. n., Desai, M. n., Chinthrajah, R. S., Galli, S. J., Andorf, S. n., Nadeau, K. C.
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