

Stanford



Sean McGhee

Clinical Associate Professor, Pediatrics - Immunology and Allergy

CLINICAL OFFICE (PRIMARY)

- Pediatric Allergy and Immunology
- 730 Welch Rd
Palo Alto, CA 94305
Tel (650) 723-0290 **Fax** (650) 498-6077

ACADEMIC CONTACT INFORMATION

- Alternate Contact
- Elena Infeld
Email elinfeld@stanford.edu
Tel 650-725-3650

Bio

CLINICAL FOCUS

- Aspirin Desensitization
- Asthma
- DiGeorge Syndrome
- Food Allergies
- Primary Immunodeficiency Diseases
- 22q11 Deletion Syndrome
- Pediatric Allergy and Immunology

ACADEMIC APPOINTMENTS

- Clinical Associate Professor, Pediatrics - Immunology and Allergy
- Member, Maternal & Child Health Research Institute (MCHRI)

ADMINISTRATIVE APPOINTMENTS

- Clinical Assistant Professor, Stanford Hospital and Clinics, (2011- present)
- Clinical Assistant Professor, Lucile Packard Children's Hospital, (2011- present)
- Medical Director, Allergy & Immunology Clinics, (2011- present)
- Program Director, Allergy & Immunology Fellowship Program, (2011- present)

HONORS AND AWARDS

- Cecil H. Short Prize, Pomona College (1992)
- Vaile Prize, Pomona College (1992)
- Alice Littman Moss Award, UCLA Pediatric Residency Program (2001)
- Centocor Immunology/Rheumatology Scholar Award, Western Society for Pediatric Research (2004)

PROFESSIONAL EDUCATION

- Fellowship: UCLA Allergy and Immunology Fellowship (2005) CA
- Residency: UCLA Medical Center (2002) CA
- Internship: UCLA Medical Center (1999) CA
- Medical Education: Stanford University School of Medicine (1998)
- Board Certification: Allergy and Immunology, American Board of Allergy and Immunology (2016)

COMMUNITY AND INTERNATIONAL WORK

- Painted Turtle Summer Camps
- Madisons Foundation

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Bioinformatics

Teaching

COURSES

2023-24

- Immunology in Health and Disease: IMMUNOL 205 (Win)

2022-23

- Immunology in Health and Disease: IMMUNOL 205 (Win)

2021-22

- Immunology in Health and Disease: IMMUNOL 205 (Win)

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

Publications

PUBLICATIONS

- Allergy testing and peanut allergy diagnoses in infants before and after the publication of the Learning Early About Peanut allergy (LEAP) study
Lo, R., McGhee, S., Purington, N., Schroeder, A.
MOSBY-ELSEVIER.2020: AB48
- GENETIC AND MECHANISTIC DIVERSITY IN PEDIATRIC HEMOPHAGOCYTIC LYMPHOHISITOCYTOSIS
Eckstein, O. S., Chinn, I. K., Peckham-Gregory, E. C., Goldberg, B. R., Forbes, L. R., Nicholas, S. K., Mace, E. M., Vogel, T. P., Abhyankar, H. A., Diaz, M. I., Heslop, H. E., Krance, R. A., Martinez, et al
WILEY.2019: S11–S12
- Large deletions and point mutations involving the dedicator of cytokinesis 8 (DOCK8) in the autosomal-recessive form of hyper-IgE syndrome *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Engelhardt, K. R., McGhee, S., Winkler, S., Sassi, A., Woellner, C., Lopez-Herrera, G., Chen, A., Kim, H. S., Lloret, M. G., Schulze, I., Ehl, S., Thiel, J., Pfeifer, et al
2009; 124 (6): 1289-1302
- Potential costs and benefits of newborn screening for severe combined immunodeficiency *JOURNAL OF PEDIATRICS*
McGhee, S. A., Stiehm, E. R., McCabe, E. R.

2005; 147 (5): 603-608

- **Lime-Induced Phytophotodermatitis: A Rash That Requires Explicit Questioning.** *The journal of allergy and clinical immunology. In practice*
Jiang, S. Y., Wright, C. M., Hinton, A., Green, G., Moyer, A. R., Gerstbacher, D., Kushner, L. E., Wang, M. E., Schor, J. S., Trietsch, J., Chu, D., McGhee, S. 2024
- **Management of Eosinophilic Esophagitis in Pediatric Patients Undergoing Food Allergen Oral Immunotherapy**
Jia, X., Chin, A., Khavari, N., Haija, M., McGhee, S., Chinthurajah, S., Sindher, S.
MOSBY-ELSEVIER.2023: AB88
- **SUBTYPING OF EOSINOPHILIC ESOPHAGITIS BASED ON DISEASE PRESENTATION IN A PEDIATRIC COHORT.** *Journal of pediatric gastroenterology and nutrition*
Sessions, J., Purington, N., McGhee, S., Bass, D., Wang, Y., Goyal, A., Khavari, N.
2022
- **A One Day Outpatient Aspirin Desensitization Protocol With Home Dose Escalation For Patients With Aspirin Exacerbated Respiratory Disease (AERD)**
Salgado, C., Hsu, C., McGhee, S., Liu, A.
MOSBY-ELSEVIER.2022: AB171
- **Pediatric eosinophilic esophagitis outcomes vary with co-morbid eczema and pollen food syndrome.** *Frontiers in allergy*
Sessions, J., Purington, N., Wang, Y., McGhee, S., Sindher, S., Goyal, A., Khavari, N.
2022; 3: 981961
- **Infant Allergy Testing and Food Allergy Diagnoses Before and After Guidelines for Early Peanut Introduction.** *The journal of allergy and clinical immunology. In practice*
Lo, R. M., Purington, N., McGhee, S. A., Mathur, M. B., Shaw, G. M., Schroeder, A. R.
2020
- **Is Dupilumab Effective in Treating Uncontrolled Moderate-to-Severe Asthma?** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE*
Lo, R., McGhee, S.
2019; 7 (5): 1705–6
- **Is Dupilumab Effective in Treating Uncontrolled Moderate-to-Severe Asthma?** *The journal of allergy and clinical immunology. In practice*
Lo, R., McGhee, S.
2019; 7 (5): 1705-1706
- **ADULT-ONSET WHEAT ANAPHYLAXIS IN THE POSTPARTUM PERIOD**
Lo, R., McGhee, S., Liu, A.
ELSEVIER SCIENCE INC.2018: S120–S121
- **Allergic Diseases and Immune-Mediated Food Disorders in Pediatric Acute-Onset Neuropsychiatric Syndrome.** *Pediatric allergy, immunology, and pulmonology*
Rosa, J. S., Hernandez, J. D., Sherr, J. A., Smith, B. M., Brown, K. D., Farhadian, B., Mahony, T., McGhee, S. A., Lewis, D. B., Thienemann, M., Frankovich, J. D.
2018; 31 (3): 158-165
- **Allergic Diseases and Immune-Mediated Food Disorders in Pediatric Acute-Onset Neuropsychiatric Syndrome** *PEDIATRIC ALLERGY IMMUNOLOGY AND PULMONOLOGY*
Rosa, J. S., Hernandez, J. D., Sherr, J. A., Smith, B. M., Brown, K. D., Farhadian, B., Mahony, T., McGhee, S. A., Lewis, D. B., Thienemann, M., Frankovich, J. D.
2018; 31 (3): 158–65
- **Genetic and mechanistic diversity in pediatric hemophagocytic lymphohistiocytosis** *BLOOD*
Chinn, I. K., Eckstein, O. S., Peckham-Gregory, E. C., Goldberg, B. R., Forbes, L. R., Nicholas, S. K., Mace, E. M., Vogel, T. P., Abhyankar, H. A., Diaz, M. I., Heslop, H. E., Krance, R. A., Martinez, et al
2018; 132 (1): 89–100
- **Biologics in pediatric lung disease.** *Current opinion in pediatrics*
McGhee, S. A.
2018; 30 (3): 366–71
- **Anaphylaxis to invasive chlorhexidine administration despite tolerance of topical chlorhexidine use** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE*

- Postolova, A., Bradley, J. T., Parris, D., Sherr, J., McGhee, S. A., Hernandez, J. D.
2018; 6 (3): 1067-+
- **Four cases of delayed onset systemic reaction to shellfish** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY-IN PRACTICE*
Huffaker, M., McGhee, S.
2018; 6 (2): 656-57
 - **International consensus guidelines for the diagnosis and management of food protein-induced enterocolitis syndrome: Executive summary-Workgroup Report of the Adverse Reactions to Foods Committee, American Academy of Allergy, Asthma & Immunology** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Nowak-Wegrzyn, A., Chehade, M., Groetch, M. E., Spergel, J. M., Wood, R. A., Allen, K., Atkins, D., Bahna, S., Barad, A. V., Berin, C., Whitehorn, T. B., Burks, A. W., Caubet, et al
2017; 139 (4): 1111-?
 - **Vehicular exhaust particles promote allergic airway inflammation through an aryl hydrocarbon receptor-notch signaling cascade** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Xia, M., Viera-Hutchins, L., Garcia-Lloret, M., Rivas, M. N., Wise, P., McGhee, S. A., Chatila, Z. K., Daher, N., Sioutas, C., Chatila, T. A.
2015; 136 (2): 441-453
 - **Long-term Sinonasal Outcomes of Aspirin Desensitization in Aspirin Exacerbated Respiratory Disease** *OTOLARYNGOLOGY-HEAD AND NECK SURGERY*
Cho, K., Soudry, E., Psaltis, A. J., Nadeau, K. C., McGhee, S. A., Nayak, J. V., Hwang, P. H.
2014; 151 (4): 575-581
 - **Long-term sinonasal outcomes of aspirin desensitization in aspirin exacerbated respiratory disease.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Cho, K., Soudry, E., Psaltis, A. J., Nadeau, K. C., McGhee, S. A., Nayak, J. V., Hwang, P. H.
2014; 151 (4): 575-581
 - **Newborn screening for severe combined immunodeficiency in 11 screening programs in the United States.** *JAMA-the journal of the American Medical Association*
Kwan, A., Abraham, R. S., Currier, R., Brower, A., Andruszewski, K., Abbott, J. K., Baker, M., Ballow, M., Bartoshesky, L. E., Bonilla, F. A., Brokopp, C., Brooks, E., Caggana, et al
2014; 312 (7): 729-738
 - **Primary Immune Deficiency Treatment Consortium (PIDTC) report.** *journal of allergy and clinical immunology*
Griffith, L. M., Cowan, M. J., Notarangelo, L. D., Kohn, D. B., Puck, J. M., Pai, S., Ballard, B., Bauer, S. C., Bleesing, J. J., Boyle, M., Brower, A., Buckley, R. H., van der Burg, et al
2014; 133 (2): 335-347 e11
 - **Newborn screening for severe combined immunodeficiency and T-cell lymphopenia in California: Results of the first 2 years** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Kwan, A., Church, J. A., Cowan, M. J., Agarwal, R., Kapoor, N., Kohn, D. B., Lewis, D. B., McGhee, S. A., Moore, T. B., Stiehm, E. R., Porteus, M., Aznar, C. P., Currier, et al
2013; 132 (1): 140-U245
 - **Use and interpretation of diagnostic vaccination in primary immunodeficiency: A working group report of the Basic and Clinical Immunology Interest Section of the American Academy of Allergy, Asthma & Immunology** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*
Orange, J. S., Ballow, M., Stiehm, E. R., Ballas, Z. K., Chinen, J., de la Morena, M., Kumararatne, D., Harville, T. O., Hesterberg, P., Koleilat, M., McGhee, S., Perez, E. E., Raasch, et al
2012; 130 (3): S1-S24
 - **Public health comes to immune deficiency** *BLOOD*
McGhee, S. A.
2012; 119 (11): 2433-2435
 - **How the practice of allergy shows the promise and challenge of personalized medicine** *MOLECULAR GENETICS AND METABOLISM*
McGhee, S. A.
2011; 104 (1-2): 3-6
 - **DOCK8 immune deficiency as a model for primary cytoskeletal dysfunction** *DISEASE MARKERS*
McGhee, S. A., Chatila, T. A.

2010; 29 (3-4): 151-156

● **Immunologic reconstitution in 22q deletion (DiGeorge) syndrome** *IMMUNOLOGIC RESEARCH*

McGhee, S. A., Lloret, M. G., Stiehm, E. R.
2009; 45 (1): 37-45

● **Defects along the T(H)17 differentiation pathway underlie genetically distinct forms of the hyper IgE syndrome** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*

Al Khatib, S., Keles, S., Garcia-Lloret, M., Koc-Aydiner, E. K., Reisli, I., Artac, H., Camcioglu, Y., Cokugras, H., Somer, A., Kutukculer, N., Yilmaz, M., Ikinciogullari, A., Yegin, et al
2009; 124 (2): 342-348

● **Immunoglobulin Replacement Therapy in Children** *IMMUNOLOGY AND ALLERGY CLINICS OF NORTH AMERICA*

Garcia-Lloret, M., McGhee, S., Chatila, T. A.
2008; 28 (4): 833-849

● **Representational oligonucleotide microarray analysis (ROMA) and comparison of binning and change-point methods of analysis: Application to detection of de122q11.2 (DiGeorge) syndrome** *HUMAN MUTATION*

Stanczak, C. M., Chen, Z., Nelson, S. E., Suchard, M., McCabe, E. R., McGhee, S.
2008; 29 (1): 176-181

● **Long-term results of bone marrow transplantation in complete DiGeorge syndrome** *JOURNAL OF ALLERGY AND CLINICAL IMMUNOLOGY*

Land, M. H., Garcia-Lloret, M. I., Borzy, M. S., Rao, P. N., Aziz, N., McGhee, S. A., Chen, K., Gorski, J., Stiehm, E. R.
2007; 120 (4): 908-915

● **Genome-wide testing: Genomic medicine** *PEDIATRIC RESEARCH*

McGhee, S. A., McCabe, E. R.
2006; 60 (3): 243-244

● **Two-tiered universal newborn screening strategy for severe combined immunodeficiency** *MOLECULAR GENETICS AND METABOLISM*

McGhee, S. A., Stiehm, E. R., Cowan, M., Krogstad, P., McCabe, E. R.
2005; 86 (4): 427-430

● **Persistent parvovirus-associated chronic fatigue treated with high dose intravenous immunoglobulin** *PEDIATRIC INFECTIOUS DISEASE JOURNAL*

McGhee, S. A., Kaska, B., Liebhaber, M., Stiehm, E. R.
2005; 24 (3): 272-274

● **Role of nonspecific cross-reacting antigen, a CD66 cluster antigen, in activation of human granulocytes** *INFECTION AND IMMUNITY*

Klein, M. L., McGhee, S. A., Baranian, J., Stevens, L., Hefta, S. A.
1996; 64 (11): 4574-4579

● **PERMEABILIZATION, STAINING AND CULTURE OF LIVING DROSOPHILA EMBRYOS** *BIOTECHNIC & HISTOCHEMISTRY*

STRECKER, T. R., McGhee, S., Shih, S., Ham, D.
1994; 69 (1): 25-30