

# Stanford

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## Sean McGhee

Clinical Professor, Pediatrics - Immunology

### CLINICAL OFFICE (PRIMARY)

- **Pediatric Allergy and Immunology**

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Palo Alto, CA 94305

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### ACADEMIC CONTACT INFORMATION

- **Alternate Contact**

Elena Infeld

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## Bio

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### CLINICAL FOCUS

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

### ACADEMIC APPOINTMENTS

- Clinical Professor, Pediatrics - Immunology
- 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

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

## COMMUNITY AND INTERNATIONAL WORK

- Painted Turtle Summer Camps
- Madisons Foundation

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Bioinformatics

## Teaching

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### COURSES

#### 2025-26

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

#### 2024-25

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

#### 2023-24

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

#### 2022-23

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

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)

## Publications

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### 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 LYMPHOHISTOCYTOSIS**  
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., Chinthrajah, 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., Ikinogullari, 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