



## Benjamin Solomon

Instructor, Pediatrics - Immunology

### CLINICAL OFFICE (PRIMARY)

- **Stanford Children's Health Specialty Services Allergy and Immunology**

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### Bio

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#### CLINICAL FOCUS

- Primary Immunodeficiency Diseases
- Pediatric Allergy and Immunology

#### ACADEMIC APPOINTMENTS

- Instructor, Pediatrics - Immunology

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Biocurator, ClinGen Primary Immune Regulatory Disorder Expert Panel (2025 - present)
- Early Career Immunology Committee, Clinical Immunology Society (CIS) (2024 - present)
- Primary Immune Deficiency Committee, American Academy of Allergy, Asthma, & Immunology (AAAAI) (2023 - present)
- Fellows-In-Training Committee, American Academy of Allergy, Asthma, & Immunology (AAAAI) (2023 - 2024)

#### PROFESSIONAL EDUCATION

- Board Certification: Allergy and Immunology, American Board of Allergy and Immunology (2024)
- Board Certification, American Board of Allergy and Immunology , Allergy and Immunology (2024)
- Fellowship: Stanford University Allergy and Immunology Fellowship (2024) CA
- Board Certification: Pediatrics, American Board of Pediatrics (2022)
- Residency: Stanford University Pediatric Residency at Lucile Packard Children's Hospital (2022) CA
- Medical Education: University of Washington in Saint Louis (2018) MO
- PhD, Washington University , Immunology (2018)
- MD, Washington University , Medicine (2018)

## Publications

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### PUBLICATIONS

- **IL12RB1 deficiency appearing in North America: expanding the clinical phenotypes.** *Clinical infectious diseases : an official publication of the Infectious Diseases Society of America*  
Wang, C., Marciano, B. E., Harris, A. J., Johnston, A. M., Apaydin Arikan, E., Bayer, D. K., Solomon, B. D., Price, N. B., Platt, C. D., Modi, A. J., Shaker, M. S., Seroogy, C. M., Johnson, et al  
2025
- **Distinct type I and II interferon responses direct cortical and medullary thymic epithelial cell development.** *Science immunology*  
Mohammed, A., Wang, W., Arreola, M., Solomon, B. D., Slepicka, P. F., Hubka, K. M., Nguyen, H. D., Zheng, Z., Chavez, M. G., Yeh, C. Y., Kim, D. K., Ma, M. R., Martin, et al  
2025; 10 (107): eado4720
- **Clustering of clinical symptoms using large language models reveals low diagnostic specificity of proposed alternatives to consensus mast cell activation syndrome criteria.** *The Journal of allergy and clinical immunology*  
Solomon, B. D., Khatri, P.  
2024
- **Integrative systems biology reveals NKG2A-biased immune responses correlate with protection in infectious disease, autoimmune disease, and cancer.** *Cell reports*  
Chen, D. G., Xie, J., Choi, J., Ng, R. H., Zhang, R., Li, S., Edmark, R., Zheng, H., Solomon, B., Campbell, K. M., Medina, E., Ribas, A., Khatri, et al  
2024; 43 (3): 113872
- **Structured Knowledge Base Enhances Effective Use of Large Language Models for Metadata Curation.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*  
Sundaram, S. S., Solomon, B., Khatri, A., Laumas, A., Khatri, P., Musen, M. A.  
2024; 2024: 1050-1058
- **Mimickers of Classical Urticaria: Cryopyrin-Associated Autoinflammatory Syndrome Presenting as Isolated Urticaria in an Infant.** *The journal of allergy and clinical immunology. In practice*  
Solomon, B. D., Skaljic, M., Liu, L. Y., Yan, D., Sheahon, K. M., Broderick, L., Hoffman, H. M., Beres, S. J., Brown, R. A., Teng, J. M., Gernez, Y.  
2023
- **Prediction of HLA genotypes from single-cell transcriptome data.** *Frontiers in immunology*  
Solomon, B. D., Zheng, H., Dillon, L. W., Goldman, J. D., Hourigan, C. S., Heath, J. R., Khatri, P.  
2023; 14: 1146826
- **A challenging case of recurrent idiopathic hemophagocytic lymphohistiocytosis (HLH) initially presenting in an infant with Pneumocystis jirovecii pneumonia**  
Solomon, B., Balagtas, J., Chien, M., Pooni, R., Balboni, I., Weinacht, K., Gernez, Y.  
SPRINGER/PLENUM PUBLISHERS.2021: S55
- **Helicobacter species are potent drivers of colonic T cell responses in homeostasis and inflammation.** *Science immunology*  
Chai, J. N., Peng, Y., Rengarajan, S., Solomon, B. D., Ai, T. L., Shen, Z., Perry, J. S., Knoop, K. A., Tanoue, T., Narushima, S., Honda, K., Elson, C. O., Newberry, et al  
2017; 2 (13)
- **Antigen-Specific Development of Mucosal Foxp3+RORγt+ T Cells from Regulatory T Cell Precursors.** *Journal of immunology (Baltimore, Md. : 1950)*  
Solomon, B. D., Hsieh, C. S.  
2016; 197 (9): 3512-3519
- **The ability to rearrange dual TCRs enhances positive selection, leading to increased Allo- and Autoreactive T cell repertoires.** *Journal of immunology (Baltimore, Md. : 1950)*  
Ni, P. P., Solomon, B., Hsieh, C. S., Allen, P. M., Morris, G. P.  
2014; 193 (4): 1778-86
- **T-cell selection and intestinal homeostasis.** *Immunological reviews*  
Ai, T. L., Solomon, B. D., Hsieh, C. S.

2014; 259 (1): 60-74

● **T cell immunodominance is dictated by the positively selecting self-peptide.** *eLife*

Lo, W. L., Solomon, B. D., Donermeyer, D. L., Hsieh, C. S., Allen, P. M.

2014; 3: e01457

● **Neuropilin-1 attenuates autoreactivity in experimental autoimmune encephalomyelitis.** *Proceedings of the National Academy of Sciences of the United States of America*

Solomon, B. D., Mueller, C., Chae, W. J., Alabanza, L. M., Bynoe, M. S.

2011; 108 (5): 2040-5

● **The AP-1 transcription factor Batf controls T(H)17 differentiation.** *Nature*

Schraml, B. U., Hildner, K., Ise, W., Lee, W. L., Smith, W. A., Solomon, B., Sahota, G., Sim, J., Mukasa, R., Cemerski, S., Hatton, R. D., Stormo, G. D., Weaver, et al

2009; 460 (7253): 405-9

● **Tpl2 kinase regulates T cell interferon-gamma production and host resistance to *Toxoplasma gondii*** *JOURNAL OF EXPERIMENTAL MEDICINE*

Watford, W. T., Hissong, B. D., Durant, L. R., Yamane, H., Muul, L. M., Kanno, Y., Tato, C. M., Ramos, H. L., Berger, A. E., Mielke, L., Pesu, M., Solomon, B., Frucht, et al

2008; 205 (12): 2803-2812