



## Katherine C. Konvinse, MD, PhD

- Postdoctoral Medical Fellow, Immunology and Allergy
- Fellow in Pediatrics - Allergy and Clinical Immunology

### Bio

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#### BIO

Katherine Konvinse, MD, PhD is an Allergy and Immunology Fellow at Stanford Medicine. She completed her residency in the Stanford Pediatric Residency Research Track Program.

#### CLINICAL FOCUS

- Fellow

#### INSTITUTE AFFILIATIONS

- Member (Postdoc), Cardiovascular Institute

#### HONORS AND AWARDS

- Glasgow-Rubin Certificate of Commendation for Academic Achievement, American Medical Women's Association (2020)
- Richard B. Johnston Award, Department of Pediatrics, Vanderbilt University Medical Center (2020)
- Award for Excellence in Infectious Diseases, Departments of Medicine and Pediatrics, Vanderbilt University Medical Center (2020)
- Dean's Award for Exceptional Achievement in Graduate Studies, Vanderbilt University (2018 - 2019)
- Best Trainee Abstract Award Winner, Pharmacogenomics Research Network – American Society of Human Genetics Joint Symposium (2018)
- Second Best Poster Award, Personalized Medicine Day, Vanderbilt University (2018)
- Best Poster Award in the Category of Immunopathogenesis, Stevens-Johnson Syndrome/Toxic Epidermal Necrolysis 2017 (2017)

#### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Academy of Pediatrics (2019 - present)
- Member, Alpha Omega Alpha Honor Medical Society (2019 - present)
- Member, American Physician Scientists Association (2016 - present)
- Member, Federation of Clinical Immunology Societies (2016 - present)
- Member, Pharmacogenomics Research Network (2016 - present)
- Member, American Association of Immunologists (2016 - 2019)

#### PROFESSIONAL EDUCATION

- Doctor of Philosophy, Vanderbilt University (2019)
- Master of Science, Vanderbilt University (2017)
- Bachelor of Arts, Cornell University (2013)

- Doctor of Medicine, Vanderbilt University (2020)
- Fellowship, Stanford University , Allergy & Immunology
- Residency, Stanford University , Pediatrics (2024)
- MD, Vanderbilt University (2020)
- PhD, Vanderbilt University , Microbiology and Immunology (2019)
- BA, Cornell University (2013)

## PATENTS

- Elizabeth Phillips, Simon Mallal, Katherine Konvinse, Abha Chopra. "United States Patent US62/805,717 Detection of Human Leukocyte Antigen-A\*32:01 in Connection with Determining Drug Reaction with Eosinophilia and Systemic Symptoms (DRESS) and Methods of Treating Bacterial Infection in a Subject with Vancomycin-Induced DRESS.", Vanderbilt University, Feb 14, 2020

## Publications

### PUBLICATIONS

- **Redefining Diagnostic and Management Approaches to Vancomycin Adverse Drug Reactions.** *The journal of allergy and clinical immunology. In practice*  
Alvarez-Arango, S., Konvinse, K. C., Pujar, M., Salciccioli, I. P., Bland, C. M., Blumenthal, K. G.  
2026; 14 (5): 1034-1047
- **Antibody repertoire associated with clinically diverse presentations of pediatric SARS-CoV-2 infection.** *medRxiv : the preprint server for health sciences*  
Bruiners, N., Ukey, R., Konvinse, K. C., Harris, M., Kalaycioglu, M., Yang, J. H., Yang, E., Ganapathi, U., Honnen, W., Andrews, T., Richlin, B., Suarez, C., Gaur, et al  
2025
- **Single-cell immunopathology of recurrent acute generalized exanthematous pustulosis associated with vancomycin.** *The journal of allergy and clinical immunology. Global*  
Mukherjee, E. M., Gibson, A., Krantz, M. S., Gangula, R., Palubinsky, A. M., Boyd, A. S., Zwerner, J. P., Dewan, A. K., Nakkam, N., Konvinse, K. C., Li, Y., Ram, R., Chopra, et al  
2025; 4 (2): 100426
- **Multiomic single-cell sequencing defines tissue-specific responses in Stevens-Johnson syndrome and toxic epidermal necrolysis.** *Nature communications*  
Gibson, A., Ram, R., Gangula, R., Li, Y., Mukherjee, E., Palubinsky, A. M., Campbell, C. N., Thorne, M., Konvinse, K. C., Choshi, P., Deshpande, P., Pedretti, S., Fear, et al  
2024; 15 (1): 8722
- **Multiomic single-cell sequencing defines tissue-specific responses in Stevens-Johnson Syndrome and Toxic epidermal necrolysis.** *bioRxiv : the preprint server for biology*  
Gibson, A., Ram, R., Gangula, R., Li, Y., Mukherjee, E., Palubinsky, A. M., Campbell, C. N., Thorne, M., Konvinse, K. C., Choshi, P., Deshpande, P., Pedretti, S., O'Neil, et al  
2024
- **Air pollution and pregnancy.** *Seminars in perinatology*  
Aguilera, J., Konvinse, K., Lee, A., Maecker, H., Prunicki, M., Mahalingaiah, S., Sampath, V., Utz, P. J., Yang, E., Nadeau, K. C.  
2023: 151838
- **Multi-omics analysis of mucosal and systemic immunity to SARS-CoV-2 after birth.** *Cell*  
Wimmers, F., Burrell, A. R., Feng, Y., Zheng, H., Arunachalam, P. S., Hu, M., Spranger, S., Nyhoff, L. E., Joshi, D., Trisal, M., Awasthi, M., Bellusci, L., Ashraf, et al  
2023
- **Chronic granulomatous disease identified in the evaluation of atypical Kawasaki disease in an infant**  
Solomon, B., Reddy, A., Konvinse, K., Shah, A., Gernez, Y., Mony, V.  
ACADEMIC PRESS INC ELSEVIER SCIENCE.2023: 133

- **Climate change and public health: The effects of global warming on the risk of allergies and autoimmune diseases: The effects of global warming on the risk of allergies and autoimmune diseases.** *EMBO reports*  
Lee, A. S., Aguilera, J., Efobi, J. A., Jung, Y. S., Seastedt, H., Shah, M. M., Yang, E., Konvinse, K., Utz, P. J., Sampath, V., Nadeau, K. C.  
2023: e56821
- **Systems biological assessment of the temporal dynamics of immunity to a viral infection in the first weeks and months of life.** *medRxiv : the preprint server for health sciences*  
Wimmers, F., Burrell, A. R., Feng, Y., Zheng, H., Arunachalam, P. S., Hu, M., Spranger, S., Nyhoff, L., Joshi, D., Trisal, M., Awasthi, M., Bellusci, L., Ashraf, et al  
2023
- **Cross-reactivity between vancomycin, teicoplanin, and telavancin in patients with HLA-A\*32:01-positive vancomycin-induced DRESS sharing an HLA class II haplotype.** *The Journal of allergy and clinical immunology*  
Nakkam, N., Gibson, A., Mouhtouris, E., Konvinse, K. C., Holmes, N. E., Chua, K. Y., Deshpande, P., Li, D., Ostrov, D. A., Trubiano, J., Phillips, E. J.  
2021; 147 (1): 403-405
- **Human Herpesvirus 6 Detection during the Evaluation of Sepsis in Infants Using the FilmArray Meningitis/Encephalitis Panel.** *The Journal of pediatrics*  
Dantuluri, K. L., Konvinse, K. C., Crook, J., Thomsen, I. P., Banerjee, R.  
2020; 223: 204-206.e1
- **Analysis of Skin-Resident Memory T Cells Following Drug Hypersensitivity Reactions.** *The Journal of investigative dermatology*  
Trubiano, J. A., Gordon, C. L., Castellucci, C., Christo, S. N., Park, S. L., Mouhtouris, E., Konvinse, K., Rose, M., Goh, M., Boyd, A. S., Phillips, E. J., Mackay, L. K.  
2020; 140 (7): 1442-1445.e4
- **Single-cell transcriptomics reveal polyclonal memory T-cell responses in skin with positive abacavir patch test results.** *The Journal of allergy and clinical immunology*  
Redwood, A. J., Rwandamuriye, F., Chopra, A., Leary, S., Ram, R., McDonnell, W., Konvinse, K., White, K., Pavlos, R., Koelle, D. M., Mallal, S., Phillips, E. J.  
2019; 144 (5): 1413-1416.e7
- **A Rapid Allele-Specific Assay for HLA-A\*32:01 to Identify Patients at Risk for Vancomycin-Induced Drug Reaction with Eosinophilia and Systemic Symptoms.** *The Journal of molecular diagnostics : JMD*  
Rwandamuriye, F. X., Chopra, A., Konvinse, K. C., Choo, L., Trubiano, J. A., Shaffer, C. M., Watson, M., Mallal, S. A., Phillips, E. J.  
2019; 21 (5): 782-789
- **HLA-A\*32:01 is strongly associated with vancomycin-induced drug reaction with eosinophilia and systemic symptoms.** *The Journal of allergy and clinical immunology*  
Konvinse, K. C., Trubiano, J. A., Pavlos, R., James, I., Shaffer, C. M., Bejan, C. A., Schutte, R. J., Ostrov, D. A., Pilkinton, M. A., Rosenbach, M., Zwerner, J. P., Williams, K. B., Bourke, et al  
2019; 144 (1): 183-192
- **Applications of Immunopharmacogenomics: Predicting, Preventing, and Understanding Immune-Mediated Adverse Drug Reactions.** *Annual review of pharmacology and toxicology*  
Karnes, J. H., Miller, M. A., White, K. D., Konvinse, K. C., Pavlos, R. K., Redwood, A. J., Peter, J. G., Lehloenya, R., Mallal, S. A., Phillips, E. J.  
2019; 59: 463-486
- **Antibiotic Allergy in Pediatrics.** *Pediatrics*  
Norton, A. E., Konvinse, K., Phillips, E. J., Broyles, A. D.  
2018; 141 (5)
- **The Combined Utility of Ex Vivo IFN- $\gamma$  Release Enzyme-Linked ImmunoSpot Assay and In Vivo Skin Testing in Patients with Antibiotic-Associated Severe Cutaneous Adverse Reactions.** *The journal of allergy and clinical immunology. In practice*  
Trubiano, J. A., Strautins, K., Redwood, A. J., Pavlos, R., Konvinse, K. C., Aung, A. K., Slavin, M. A., Thursky, K. A., Grayson, M. L., Phillips, E. J.  
2017; 6 (4): 1287-1296.e1
- **Severe Delayed Cutaneous and Systemic Reactions to Drugs: A Global Perspective on the Science and Art of Current Practice.** *The journal of allergy and clinical immunology. In practice*  
Peter, J. G., Lehloenya, R., Dlamini, S., Risma, K., White, K. D., Konvinse, K. C., Phillips, E. J.  
2017; 5 (3): 547-563

- **Old dog begging for new tricks: current practices and future directions in the diagnosis of delayed antimicrobial hypersensitivity.** *Current opinion in infectious diseases*  
Konvinse, K. C., Phillips, E. J., White, K. D., Trubiano, J. A.  
2016; 29 (6): 561-576
- **Altered TGF- $\alpha/\beta$  signaling drives cooperation between breast cancer cell populations.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*  
Franco, O. E., Tyson, D. R., Konvinse, K. C., Udyavar, A. R., Estrada, L., Quaranta, V., Crawford, S. E., Hayward, S. W.  
2016; 30 (10): 3441-3452
- **PPAR $\gamma$  isoforms differentially regulate metabolic networks to mediate mouse prostatic epithelial differentiation.** *Cell death & disease*  
Strand, D. W., Jiang, M., Murphy, T. A., Yi, Y., Konvinse, K. C., Franco, O. E., Wang, Y., Young, J. D., Hayward, S. W.  
2012; 3: e361