



Katherine C. Konvinse, MD, PhD

- Affiliate, Department Funds
- Fellow in Pediatrics - Allergy and Clinical Immunology

Bio

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

- 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

- **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., Efofi, 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- γ 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- α/β 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 γ 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