

Xiaorui Han

Basic Life Research Scientist, Pathology Sponsored Projects

Publications

PUBLICATIONS

- **Peanut allergy oral immunotherapy drives single-cell multi-omic changes in peanut-reactive T cells associated with sustained unresponsiveness.** *Nature immunology*
Han, X., Skatova, V., Mikelov, A., Ji, X., Hoh, R. A., Lee, J. Y., Cao, S., Seastedt, H., Schuetz, J., Fernandes, A., Singhal, A., Grubert, F., DeKruyff, et al
2025
- **Young children have limited mucosal immunity when stimulated with an influenza vaccine in tonsil organoids.** *Research square*
Davis, M., Sun, M., Solà, E., Guo, J., Valainis, J., Shankar, V., Kamalyan, L., Gupta, N., Ghanizada, M., Constantz, C., Mallajosyula, V., Mohsin, A., Han, et al
2025
- **Association of cytotoxic effector memory CD8+ T cells with sustained unresponsiveness after peanut oral immunotherapy.** *Allergy*
Seastedt, H., Han, X., Fernandes, A., Galli, S. J., Boyd, S. D., Nadeau, K. C., Manohar, M., Chinthrajah, S.
2024
- **Single cell multi-omic analysis identifies key genes differentially expressed in innate lymphoid cells from COVID-19 patients.** *Frontiers in immunology*
Kaushik, A., Chang, I., Han, X., He, Z., Komlosi, Z. I., Ji, X., Cao, S., Akdis, C. A., Boyd, S., Pulendran, B., Maecker, H. T., Davis, M. M., Chinthrajah, et al
2024; 15: 1374828
- **CD8+ T cell differentiation status correlates with the feasibility of sustained unresponsiveness following oral immunotherapy.** *Nature communications*
Kaushik, A., Dunham, D., Han, X., Do, E., Andorf, S., Gupta, S., Fernandes, A., Kost, L. E., Sindher, S. B., Yu, W., Tsai, M., Tibshirani, R., Boyd, et al
2022; 13 (1): 6646
- **Increases in ambient air pollutants during pregnancy are linked to increases in methylation of IL4, IL10, and IFN γ .** *Clinical epigenetics*
Aguilera, J., Han, X., Cao, S., Balmes, J., Lurmann, F., Tyner, T., Lutzker, L., Noth, E., Hammond, S. K., Sampath, V., Burt, T., Utz, P. J., Khatri, et al
2022; 14 (1): 40
- **Exposure to ambient air pollutants during pregnancy is linked to IL4, IL10, and IFN γ gene methylation and fewer Th1, Th2, and Th17 cell populations**
Aguilera, J., Han, X., Cao, S., Prunicki, M., Nadeau, K.
MOSBY-ELSEVIER.2022: AB139
- **Food Allergies: An Example of Translational Research.** *Immunology and allergy clinics of North America*
Krempski, J. W., Warren, C., Han, X., Zhang, W., He, Z., Lejeune, S., Nadeau, K.
2021; 41 (2): 143–63
- **Targeted DNA methylation profiling reveals epigenetic signatures in peanut allergy.** *JCI insight*
Zhou, X. n., Han, X. n., Lyu, S. C., Bunning, B. J., Kost, L. n., Chang, I. n., Cao, S. n., Sampath, V. n., Nadeau, K. C.
2021
- **Advances and novel developments in mechanisms of allergic inflammation.** *Allergy*
Han, X., Krempski, J. W., Nadeau, K.
2020