

Karan Raj Kathuria

- MD Student, expected graduation Spring 2026
- Ph.D. Student in Immunology, admitted Autumn 2021
- MSTP Student

Publications

PUBLICATIONS

- **Differential roles of human CD4+ and CD8+ regulatory T cells in controlling self-reactive immune responses.** *Nature immunology*
Chen, X., Ghanizada, M., Mallajosyula, V., Sola, E., Capasso, R., Kathuria, K. R., Davis, M. M.
2025
- **Specificity of Immunoglobulin High-Throughput Sequencing Minimal Residual Disease Monitoring in Non-Hodgkin Lymphomas.** *Blood advances*
Shukla, N., Schroers-Martin, J., Sworder, B., Kathuria, K. R., Alig, S., Frank, M. J., Miklos, D. B., Coutre, S. E., Diehn, M., Khodadoust, M. S., Roschewski, M. J., Kurtz, D. M., Alizadeh, et al
2023
- **Distinct Hodgkin lymphoma subtypes defined by noninvasive genomic profiling.** *Nature*
Alig, S. K., Esfahani, M. S., Garofalo, A., Li, M. Y., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M. C., Olsen, M., Telenius, et al
2023
- **Genomic, Transcriptional, and Immunological Validation of Distinct Molecular Subtypes of Classic Hodgkin Lymphoma through Tissue-Based and Noninvasive Methods**
Alig, S. K., Esfahani, M., Garofalo, A., Li, M., Rossi, C., Flerlage, T., Flerlage, J. E., Adams, R., Binkley, M. S., Shukla, N., Jin, M., Olsen, M., Telenius, et al
AMER SOC HEMATOLOGY.2023
- **Single-cell sequencing of PBMC characterizes a distinct inflammatory monocyte subset in Lyme disease patients with Post-Treatment Lyme Disease Syndrome (PTLD)**
Chen, X., Zhou, X., Ji, X., Miranda, M., Rebman, A., Kathuria, K., Robinson, W. H., Aucott, J., Davis, M. M.
AMER ASSOC IMMUNOLOGISTS.2023
- **Spheromers reveal robust T cell responses to the Pfizer/BioNTech vaccine and attenuated peripheral CD8+ T cell responses post SARS-CoV-2 infection.** *Immunity*
Gao, F., Mallajosyula, V., Arunachalam, P. S., van der Ploeg, K., Manohar, M., Röltgen, K., Yang, F., Wirz, O., Hoh, R., Haraguchi, E., Lee, J. Y., Willis, R., Ramachandiran, et al
2023
- **Specificity & Precision of Minimal Residual Disease Monitoring in DLBCL Using Ig-HTS**
Shukla, N. D., Schroers-Martin, J., Kathuria, K. R., Sworder, B., Alig, S. K., Frank, M. J., Miklos, D. B., Coutre, S., Diehn, M., Khodadoust, M. S., Roschewski, M., Kurtz, D. M., Alizadeh, et al
AMER SOC HEMATOLOGY.2022: 6403-6404
- **Distinct Molecular Subtypes of Classic Hodgkin Lymphoma Identified By Comprehensive Noninvasive Profiling**
Alig, S. K., Esfahani, M., Li, M. Y., Adams, R., Garofalo, A., Jin, M. C., Olsen, M., Telenius, A., Sworder, B., Schroers-Martin, J., King, D. A., Rossi, C., Schultz, et al
AMER SOC HEMATOLOGY.2022: 1295-1296
- **Viral cfDNA Profiling Reveals Distinct EBV Subtypes and Stratifies Risk in Hodgkin Lymphomas**

Garofalo, A., Alig, S. K., Schroers-Martin, J., Shyam, R., Olsen, M., Kurtz, D. M., Rossi, C., Schultz, A., Kathuria, K. R., Liu, C., Spina, V., Flerlage, J. E., Castellino, et al

AMER SOC HEMATOLOGY.2022: 1318-1319

- **Maria-I: A Deep-Learning Approach for Accurate Prediction of MHC Class I Tumor Neoantigen Presentation**

Kathuria, K. R., Chen, B., Khodadoust, M. S., Olsson, N., Davis, M. M., Elias, J. E., Levy, R., Altman, R. B., Alizadeh, A. A.

AMER SOC HEMATOLOGY.2019

- **Tyr1 phosphorylation promotes phosphorylation of Ser2 on the C-terminal domain of eukaryotic RNA polymerase II by P-TEFb** *ELIFE*

Mayfield, J. E., Irani, S., Escobar, E. E., Zhang, Z., Burkholder, N. T., Robinson, M. R., Mehaffey, M., Sipe, S. N., Yang, W., Prescott, N. A., Kathuria, K. R., Liu, Z., Brodbelt, et al

2019; 8

- **Snapshots of C-S Cleavage in Egt2 Reveals Substrate Specificity and Reaction Mechanism** *CELL CHEMICAL BIOLOGY*

Irani, S., Naowarajna, N., Tang, Y., Kathuria, K. R., Wang, S., Dhembhi, A., Lee, N., Yan, W., Lyu, H., Costello, C. E., Liu, P., Zhang, Y.

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