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Publications

PUBLICATIONS

- **CD39+CD49a+CD103+ cytotoxic tissue-resident natural killer cells infiltrate and control solid epithelial tumor growth in mice.** *Science translational medicine*
Horowitz, N. B., Mohammad, I. A., Shin, J. H., Hickey, J. W., Chockley, P., Snyder, G., Chen, C., Lee, K., Sharma, K., Tran, Q., Nejatfard, A., Maddineni, S., Divi, et al
2026; 18 (848): eadw5567
- **Surfaceome CRISPR activation screening uncovers ligands regulating tumor sensitivity to NK cell killing.** *bioRxiv : the preprint server for biology*
Dinesh, R. K., Wang, X., Mohammad, I. A., Gunasekaran, P., Stikloraitis, K., Villafuerte, J. R., Rao, A., Hernandez-Lopez, R. A., Sunwoo, J. B., Cong, L.
2025
- **ACTL6A regulates the Warburg effect through coordinated activation of AP-1 signaling in head and neck squamous cell carcinoma.** *bioRxiv : the preprint server for biology*
Monavarian, M., Sherman, A. R., Mohammad, I. A., Maddineni, S., Zhang, M., Wu, J. C., Chua, K. F., Sunwoo, J., Finegersh, A.
2025
- **An intraepithelial ILC1-like natural killer cell subset produces IL-13.** *Frontiers in immunology*
Maddineni, S., Sharma, K., Mohammad, I. A., Ruggiero-Sherman, A. D., Stepanek, I., Shin, J. H., Bando, J. K., Sunwoo, J. B.
2025; 16: 1521086
- **Intraepithelial ILC1-Like NK Cells Increase Lymphocyte Infiltration into the Tumor Microenvironment via the CXCL10 Axis.** *Otolaryngology--head and neck surgery : official journal of American Academy of Otolaryngology-Head and Neck Surgery*
Maddineni, S., Sharma, K., Mohammad, I. A., Shin, J. H., Sunwoo, J. B.
2024
- **Single-cell RNA sequencing of human lung innate lymphoid cells in the vascular and tissue niche reveals molecular features of tissue adaptation.** *Discovery immunology*
Alisjahbana, A., Mohammad, I., Gao, Y., Evren, E., Willinger, T.
2023; 2 (1): kyad007
- **A single-cell map of vascular and tissue lymphocytes identifies proliferative TCF-1(+) human innate lymphoid cells** *FRONTIERS IN IMMUNOLOGY*
Gao, Y., Alisjahbana, A., Boey, D., Mohammad, I., Sleiers, N., Dahlin, J. S., Dahlin, S., Willinger, T.
2022; 13: 902881
- **Landscape of innate lymphoid cells in human head and neck cancer reveals divergent NK cell states in the tumor microenvironment.** *Proceedings of the National Academy of Sciences of the United States of America*
Moreno-Nieves, U. Y., Tay, J. K., Saumyaa, S., Horowitz, N. B., Shin, J. H., Mohammad, I. A., Luca, B., Mundy, D. C., Gulati, G. S., Bedi, N., Chang, S., Chen, C., Kaplan, et al
2021; 118 (28)
- **Humanized Mouse Models for the Advancement of Innate Lymphoid Cell-Based Cancer Immunotherapies.** *Frontiers in immunology*
Horowitz, N. B., Mohammad, I., Moreno-Nieves, U. Y., Koliesnik, I., Tran, Q., Sunwoo, J. B.
2021; 12: 648580

- **Human macrophages and innate lymphoid cells: Tissue-resident innate immunity in humanized mice** *BIOCHEMICAL PHARMACOLOGY*
Alisjahbana, A., Mohammad, I., Gao, Y., Evren, E., Ringqvist, E., Willinger, T.
2020; 174: 113672
- **Quantitative proteomic characterization and comparison of T helper 17 and induced regulatory T cells** *PLOS BIOLOGY*
Mohammad, I., Nousiainen, K., Bhosale, S. D., Starskaia, I., Moulder, R., Rokka, A., Cheng, F., Mohanasundaram, P., Eriksson, J. E., Goodlett, D. R., Lahdesmaki, H., Chen, Z.
2018; 16 (5): e2004194
- **Estrogen receptor alpha contributes to T cell-mediated autoimmune inflammation by promoting T cell activation and proliferation** *SCIENCE SIGNALING*
Mohammad, I., Starskaia, I., Nagy, T., Guo, J., Yatkin, E., Vaananen, K., Watford, W. T., Chen, Z.
2018; 11 (526)