Stanford



Imran Mohammad

Basic Life Research Scientist, OHNS/Head & Neck Surgery Divisions

Bio

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, OHNS/Head & Neck Surgery Divisions

PROFESSIONAL EDUCATION

- Bachelor of Technology, KL University, India , Biotechnology (2009)
- Master of Science, Swedish University of Agricultural Sciences, Sweden , Biotechnology (2015)
- Doctor of Philosophy, University of Turku, Finland , Molecular Immunology (2018)

Publications

PUBLICATIONS

- **Surfaceome CRISPR activation screening uncovers ligands regulating tumor sensitivity to NK cell killing.** *Nature communications*
  Dinesh, R. K., Wang, X., Mohammad, I. A., Gunasekaran, P., Stiklioraitis, K., Villafuerte, J. R., Rao, A., Hernandez-Lopez, R. A., Sunwoo, J. B., Cong, L.
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- **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
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- **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.
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- **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.
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- **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.
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- **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.
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- **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.
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- **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.
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- **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.
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