Stanford



Purvesh Khatri

Professor of Medicine (Computational Medicine - ITI Institute)

NIH Biosketch available Online Curriculum Vitae available Online

CONTACT INFORMATION

- **Alternate Contact**

  Mary Watson - Administartive Assistant

  Email mwatson5@stanford.edu

Bio

ACADEMIC APPOINTMENTS

- Professor, Medicine
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Wu Tsai Human Performance Alliance
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease

ADMINISTRATIVE APPOINTMENTS

- Assistant Professor, Institute for Immunity, Transplantation and Infection, (2014- present)

Research & Scholarship

CLINICAL TRIALS

- Longitudinal Gene Expression Profiling in Adults After Traumatic Injury, Not Recruiting

Teaching

COURSES

2023-24

- Emerging Topics in Computational Immunology: IMMUNOL 312 (Sum)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Filipe Araujo Hoffmann, Humza Khan

Postdoctoral Faculty Sponsor

Caroline Duncombe

Doctoral Dissertation Advisor (AC)

Isha Arora, Jeanna Enriquez, Evan Maestri, Holly McCann, Chris Geo Provido, Clove Taylor

Master's Program Advisor

Loran Baxter Mercado, Helen Sun

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Data Science (PhD Program)
- Immunology (PhD Program)

Publications

PUBLICATIONS

- **Acute Exercise Drives Transient Immune Dysregulation: Immune Score Analysis in the MoTrPAC Cohort**
  Brochet, P., Smith, G., Jin, C., Jimenez-Morales, D., Many, G., Lindholm, M. E., Smith, K., Khatri, P., Sealfon, S., Walsh, M., Montgomery, S. B., Snyder, M., Wheeler, et al
  LIPPINCOTT WILLIAMS & WILKINS.2026: A18787
- **Immune trajectories enable detection of asymptomatic parasitemia and predict future malaria outcomes.** *medRxiv : the preprint server for health sciences*
  Duncombe, C. J., McCann, H., Zheng, H., Bach, F., Kazmin, D., McClure, M., Obermoser, G., Kamya, M., Nankabirwa, J. I., Nankya, F., Dorsey, G., Greenhouse, B., Barraquer, et al
  2026
- **A single-cell atlas of human neutrophils reveals neutrophil heterogeneity across health and disease.** *Nature immunology*
  Zheng, H., Maestri, E., Moore, A. R., Ganesan, A., Enriquez, J., Durán, V., Einav, S., van der Poll, T., Bouma, H. R., Atreya, M. R., Efron, P. A., Moldawer, L. L., Sevransky, et al
  2026
- **Systems Immunology of Long Covid: Insights from the STOP-PASC Clinical Trial**
  Maestri, E., Kwon, W., Zheng, H., Prestwood, T., Hedlin, H., Liang, J., McCann, H., Jones, B., Lu, R., Wiley, G., Haraguchi, E., Wirz, O., Afaghani, et al
  OXFORD UNIV PRESS.2026
- **TIDEPOOL, a method for inferring disease trajectories across cohorts, identifies neutrophil-driven trajectories associated with severity of infections**
  McCann, H., Moore, A., Arora, I., Zheng, H., Khatri, P.
  OXFORD UNIV PRESS.2026
- **Systems immunology approach to mapping malaria disease trajectory identifies conserved gene modules associated with severity**
  Duncombe, C., McCann, H., Jagannathan, P., Khatri, P.
  OXFORD UNIV PRESS.2026
- **High risk blood myeloid dysregulation is elevated in obesity and is reduced by lifestyle interventions**
  Moore, A., Enriquez, J., Ganesan, A., Zheng, H., Khatri, P.
  OXFORD UNIV PRESS.2026
- **Lipidomic profiling reveals age-dependent changes in plasma membrane lipids that affect neural stem cell aging.** *Science advances*
  Zhao, X., Feitzinger, R. M., Na, J., Yan, X., Erickson, A., Contrepois, K., Zhou, O. Y., Vallania, F., Ellenberger, M., Kashiwagi, C. M., Gagnon, S. D., Siebrand, C. J., Cabruja, et al
  2026; 12 (31): eaeh9771
- **Zanubrutinib monotherapy for IgG4-related head and neck disease.** *Annals of the rheumatic diseases*
  Baker, M. C., Gawde, S., Horomanski, A., Fairchild, R. M., Liu, Y., Mikelov, A., Sun, Y., Vitale, M. R., Maestri, E., Held, F., Deluna, M., Park, W. G., Siddiqi, et al
  2026

- **Lower plasma resolvin D1 level and greater sputum eosinophilia characterize a cluster of severe asthma patients.** *Respiratory research*
  Duvall, M. G., Sun, Y., Mirzakhani, H., Pons, S., Dorazio, M. H., Chiha, T., Lu, Z., Phillips, B. R., Aronica, M. A., Bleecker, E. R., Castro, M., Comhair, S. A., Denlinger, et al
  2026
- **Real-world clinical evaluation of the Inflammatix TriVerity test for sepsis at the emergency department: an Acutelines study.** *Internal and emergency medicine*
  Ter Voert, M. A., Lu, J., Hincapié-Osorno, C., van der Aart, T. J., Ter Horst, S., Ünal, M., Visser, M., van Wijk, R. J., Ter Maaten, J., Whitfield, N. N., Khatri, P., Sweeney, T. E., Blokzijl, et al
  2026
- **Human vaccine responses regulated by parallel cytokine pathways.** *Nature immunology*
  Chen, G., Guo, J., Heath, J., Prestwood, T. R., Kwon, W. J., Smith, A. R., Nguyen, T. T., Kathuria, K. R., Sola, E., Sangare, A., Mallajosyula, V., Furuichi Fong, R., Mohsin, et al
  2026
- **TGFβ-PDL1 signaling in neutrophils preserves lung barrier during hyperinflammation.** *Blood*
  Li, Z., Moore, A. R., Zheng, H., Karunamurthy, J., Bhagrath, A., Li, J., Young, D., Jurado, L. F., Couto, K., Kulle, A., Park, H., Kwak, A., Belur, et al
  2026
- **Novel Netrin-1-Unc5b-Klf4 axis balances AT2 survival in experimental bronchopulmonary dysplasia.** *American journal of respiratory cell and molecular biology*
  Klymenko, O., Mohr, J., Danopoulos, S., Mizik, I., Kuiper-Makris, C., Stephan, S., Mahjoub, M. A., Alvira, C. M., Rheindorf, D., Imhof, T., Akgul, S., Donato, M., Ebert, et al
  2026
- **CRITICAL CARE IMMUNE DYSREGULATION FRAMEWORK DIFFERENTIATES SEPTIC AND CARDIOGENIC SHOCK**
  Ghaffari, K., Moore, A., Sanchez, P., Rogers, A., Khatri, P.
  LIPPINCOTT WILLIAMS & WILKINS.2026
- **Author Correction: Combined inhibition of BET family proteins and histone deacetylases as a potential epigenetics-based therapy for pancreatic ductal adenocarcinoma.** *Nature medicine*
  Mazur, P. K., Herner, A., Mello, S. S., Wirth, M., Hausmann, S., Sánchez-Rivera, F. J., Lofgren, S. M., Kuschma, T., Hahn, S. A., Vangala, D., Trajkovic-Arsic, M., Gupta, A., Heid, et al
  2026
- **Compact RNA sensors for increasingly complex functions of multiple inputs.** *Nature chemistry*
  Choe, C. A., Andreasson, J. O., Melaine, F., Kladwang, W., Wu, M. J., Portela, F., Wellington-Oguri, R., Nicol, J. J., Wayment-Steele, H. K., Gotrik, M., Khatri, P., Greenleaf, W. J., Das, et al
  2025
- **International multi-cohort analysis identifies novel framework for quantifying immune dysregulation in sepsis with prognostic and therapeutic significance**
  Moore, A. R., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., Sweeney, T. E., Rogers, A. J., Khatri, P.
  OXFORD UNIV PRESS.2025: 75-76
- **Cross-tissue single-cell landscape of neutrophil heterogeneity and immunity in health and disease**
  Zheng, H., Maestri, E., Ganesan, A., Moore, A. R., Enriquez, J., Khatri, P.
  OXFORD UNIV PRESS.2025
- **Multi-cohort single-cell transcriptomic analysis reveals conserved endotypes of lupus**
  Maestri, E., Zheng, H., Khatri, P.
  OXFORD UNIV PRESS.2025
- **A natural adjuvant underlies vaccine response variability in humans**
  Chen, G., Sola, E., Mohsin, A., Grant, P., Shen-Orr, S. S., Maecker, H. T., Khatri, P., Davis, M. M.
  OXFORD UNIV PRESS.2025
- **Author Correction: A consensus immune dysregulation framework for sepsis and critical illnesses.** *Nature medicine*
  Moore, A. R., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., Maddali, M. V., Levitt, J. E., van der Poll, T., Lu, J., Bouma, H. R., Scicluna, B. P., Giamarellos-Bourboulis, E. J., Kotsaki, A., Martin-Loeches, et al

2025

- **Targeting IL6-Edn1-FoxO1 axis enables lung growth in mechanically ventilated newborn mice.** *The European respiratory journal*
  Hirani, D., Selle, J., Wagde, V., Klymenko, O., Kuiper-Makris, C., Danopoulos, S., Donato, M., Preuss, S., Preuss, M., Mujahid, S., Vohlen, C., Wulf, K., van Koningsbruggen-Rietschel, et al
  2025
- **Clinical validation of an AI-based blood testing device for diagnosis and prognosis of acute infection and sepsis.** *Nature medicine*
  Liesenfeld, O., Arora, S., Aufderheide, T. P., Clements, C. M., DeVos, E., Fischer, M., Giamarellos-Bourboulis, E. J., House, S., Humphries, R. L., Gill, J. K., Liu, E., Mace, S. E., May, et al
  2025
- **A consensus immune dysregulation framework for sepsis and critical illnesses.** *Nature medicine*
  Moore, A. R., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., Maddali, M. V., Levitt, J. E., van der Poll, T., Lu, J., Bouma, H. R., Scicluna, B. P., Giamarellos-Bourboulis, E. J., Kotsaki, A., Martin-Loeches, et al
  2025
- **A consensus blood transcriptomic framework for sepsis.** *Nature medicine*
  Scicluna, B. P., Cano-Gamez, K., Burnham, K. L., Davenport, E. E., Moore, A. R., Khan, S., Hinds, C. J., Cremer, O. L., Khatri, P., Sweeney, T. E., Knight, J. C., van der Poll, T.
  2025
- **Normal Treg homeostasis and suppressive function require both FOXP1 and FOXP4.** *JCI insight*
  Dong, D., Sindhava, V. J., Ganesan, A., Naradikian, M. S., Stephen, T. L., Frisch, A., Valentine, K. M., Buza, E., Wiehagen, K. R., Cancro, M. P., Morrisey, E. E., Tucker, H., Hoyer, et al
  2025
- **Multi-cohort analysis identifies a blood-based immune transcriptomic signature for early lung cancer detection.** *NPJ precision oncology*
  Zheng, H., Rao, A. M., Ganesan, A., Soh, H. T., Ponder, B. A., Rintoul, R. C., Khatri, P.
  2025; 9 (1): 246
- **29-mRNA host response signatures for classification of bacterial infection, viral infection and disease progression in COVID-19 pneumonia: a post hoc analysis of the SAVE-MORE randomized clinical trial.** *Intensive care medicine experimental*
  Kyriazopoulou, E., Kotsaki, A., Safarika, A., Poulakou, G., Milionis, H., Metallidis, S., Adamis, G., Fragkou, A., Rapti, A., Del Vecchio, P., Kalomenidis, I., Kitzoglou, D., Angheben, et al
  2025; 13 (1): 67
- **A conserved immune dysregulation signature is associated with infection severity, risk factors prior to infection, and treatment response.** *Immunity*
  Ganesan, A., Moore, A. R., Zheng, H., Toh, J., Freedman, M., Magis, A. T., Heath, J. R., Khatri, P.
  2025
- **scMetaIntegrator: a meta-analysis approach to paired single-cell differential expression analysis.** *bioRxiv : the preprint server for biology*
  Ratnasiri, K., Mach, S. N., Blish, C. A., Khatri, P.
  2025
- **Distinct type I and II interferon responses direct cortical and medullary thymic epithelial cell development.** *Science immunology*
  Mohammed, A., Wang, W., Arreola, M., Solomon, B. D., Slepicka, P. F., Hubka, K. M., Nguyen, H. D., Zheng, Z., Chavez, M. G., Yeh, C. Y., Kim, D. K., Ma, M. R., Martin, et al
  2025; 10 (107): eado4720
- **Age-dependent cytokine surge in blood precedes cancer diagnosis.** *Proceedings of the National Academy of Sciences of the United States of America*
  Chen, G., Mohsin, A., Zheng, H., Rosenberg-Hasson, Y., Padilla, C., Sarin, K. Y., Dekker, C. L., Grant, P., Maecker, H. T., Lu, Y., Furman, D., Shen-Orr, S., Khatri, et al
  2025; 122 (12): e2420502122
- **A 29-MRNA HOST RESPONSE TEST REDUCES FALSE NEGATIVES AND ACCURATELY PREDICTS INFECTION SEVERITY**
  Damaraju, N., Mayhew, M., Hasin-Brumshtein, Y., Buturovic, L., Khatri, P.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **SEVERE OR MILD TRANSCRIPTOMIC SCORE IS CONSERVED IN INFECTIOUS AND NONINFECTIOUS CRITICAL ILLNESS**
  Ganesan, A., Moore, A., Zheng, H., Freedman, M., Rogers, A., Khatri, P.
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **MULTI-COHORT ANALYSIS IDENTIFIES CONSENSUS SEPSIS CLUSTERS WITH PROGNOSTIC AND THERAPEUTIC RELEVANCE**
  Moore, A., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., van der Poll, T., Scicluna, B., Giamarellos-Bourboulis, E., Martin-Loeches, I., Rothman, R., Atreya, M., Moldawer, L., Marcela, K., Karvunidis, et al
  LIPPINCOTT WILLIAMS & WILKINS.2025

- **Multicohort Analysis of Bronchial Epithelial Cell Expression in Healthy Subjects and Patients with Asthma Reveals Four Clinically Distinct Clusters.** *American journal of respiratory cell and molecular biology*
  Lee, I., Ganesan, A., Kalesinskas, L., Zheng, H., Ahn, H. C., Christenson, S., Erzurum, S. C., Zein, J., Bleecker, E. R., Meyers, D. A., Castro, M., Fahy, J. V., Israel, et al
  2024

- **Multi-modal analysis reveals tumor and immune features distinguishing EBV-positive and EBV-negative post-transplant lymphoproliferative disorders.** *Cell reports. Medicine*
  Toh, J., Reitsma, A. J., Tajima, T., Younes, S. F., Ezeiruaku, C., Jenkins, K. C., Peña, J. K., Zhao, S., Wang, X., Lee, E. Y., Glass, M. C., Kalesinskas, L., Ganesan, et al
  2024: 101851

- **Impact of air pollution exposure on cytokines and histone modification profiles at single-cell levels during pregnancy.** *Science advances*
  Jung, Y. S., Aguilera, J., Kaushik, A., Ha, J. W., Cansdale, S., Yang, E., Ahmed, R., Lurmann, F., Lutzker, L., Hammond, S. K., Balmes, J., Noth, E., Burt, et al
  2024; 10 (48): eadp5227

- **International multi-cohort analysis identifies novel framework for quantifying immune dysregulation in critical illness: results of the SUBSPACE consortium.** *bioRxiv : the preprint server for biology*
  Moore, A. R., Zheng, H., Ganesan, A., Hasin-Brumshtein, Y., Maddali, M. V., Levitt, J. E., van der Poll, T., Scicluna, B. P., Giamarellos-Bourboulis, E. J., Kotsaki, A., Martin-Loeches, I., Garduno, A., Rothman, et al
  2024

- **Sialylated IgG induces the transcription factor REST in alveolar macrophages to protect against lung inflammation and severe influenza disease.** *Immunity*
  Chakraborty, S., Cheng, B. Y., Edwards, D. L., Gonzalez, J. C., Chiu, D. K., Zheng, H., Scallan, C., Guo, X., Tan, G. S., Coffey, G. P., Conley, P. B., Hume, P. S., Janssen, et al
  2024

- **Causal inference can lead us to modifiable mechanisms and informative archetypes in sepsis.** *Intensive care medicine*
  Baillie, J. K., Angus, D., Burnham, K., Calandra, T., Calfee, C., Gutteridge, A., Hacohen, N., Khatri, P., Langley, R., Ma'ayan, A., Marshall, J., Maslove, D., Prescott, et al
  2024

- **Clustering of clinical symptoms using large language models reveals low diagnostic specificity of proposed alternatives to consensus mast cell activation syndrome criteria.** *The Journal of allergy and clinical immunology*
  Solomon, B. D., Khatri, P.
  2024

- **Author Correction: Specific CD4+ T cell phenotypes associate with bacterial control in people who 'resist' infection with Mycobacterium tuberculosis.** *Nature immunology*
  Sun, M., Phan, J. M., Kieswetter, N. S., Huang, H., Yu, K. K., Smith, M. T., Liu, Y. E., Wang, C., Gupta, S., Obermoser, G., Maecker, H. T., Krishnan, A., Suresh, et al
  2024

- **Clinical immunity to malaria involves epigenetic reprogramming of innate immune cells.** *PNAS nexus*
  Nideffer, J., Ty, M., Donato, M., John, R., Kajubi, R., Ji, X., Nankya, F., Musinguzi, K., Press, K. D., Yang, N., Camanag, K., Greenhouse, B., Kamya, et al
  2024; 3 (8): pgae325

- **Identification and transcriptomic assessment of latent profile pediatric septic shock phenotypes.** *Critical care (London, England)*
  Atreya, M. R., Huang, M., Moore, A. R., Zheng, H., Hasin-Brumshtein, Y., Fitzgerald, J. C., Weiss, S. L., Cvijanovich, N. Z., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, et al

2024; 28 (1): 246

- **Specific CD4+ T cell phenotypes associate with bacterial control in people who 'resist' infection with Mycobacterium tuberculosis.** *Nature immunology*
  Sun, M., Phan, J. M., Kieswetter, N. S., Huang, H., Yu, K. K., Smith, M. T., Liu, Y. E., Wang, C., Gupta, S., Obermoser, G., Maecker, H. T., Krishnan, A., Suresh, et al
  2024
- **Author Correction: Combined inhibition of BET family proteins and histone deacetylases as a potential epigenetics-based therapy for pancreatic ductal adenocarcinoma.** *Nature medicine*
  Mazur, P. K., Herner, A., Mello, S. S., Wirth, M., Hausmann, S., Sánchez-Rivera, F. J., Lofgren, S. M., Kuschma, T., Hahn, S. A., Vangala, D., Trajkovic-Arsic, M., Gupta, A., Heid, et al
  2024
- **Altered T cell phenotypes in M. tuberculosis 'resisters' correlated with bacterial control**
  Sun, M., Phan, J., Kieswetter, N., Yu, K., Smith, M., Huang, H., Liu, Y., Gupta, S., Obermoser, G., Maecker, H., Krishnan, A., Suresh, S., Rieck, et al
  AMER ASSOC IMMUNOLOGISTS.2024
- **Cross-tissue single-cell landscape of neutrophil heterogeneity and immunity in health and disease**
  Zheng, H., Maestri, E., Khatri, P.
  AMER ASSOC IMMUNOLOGISTS.2024
- **Cross-tissue single-cell landscape of neutrophil heterogeneity and immunity in health and disease**
  Zheng, H., Maestri, E., Khatri, P.
  AMER ASSOC IMMUNOLOGISTS.2024
- **Transitions of blood immune endotypes and improved outcome by anakinra in COVID-19 pneumonia: an analysis of the SAVE-MORE randomized controlled trial.** *Critical care (London, England)*
  Kyriazopoulou, E., Hasin-Brumshtein, Y., Midic, U., Poulakou, G., Milionis, H., Metallidis, S., Astriti, M., Fragkou, A., Rapti, A., Taddei, E., Kalomenidis, I., Chrysos, G., Angheben, et al
  2024; 28 (1): 73
- **Impaired innate and adaptive immune responses to BNT162b2 SARS-CoV-2 vaccination in systemic lupus erythematosus.** *JCI insight*
  Sarin, K. Y., Zheng, H., Chaichian, Y., Arunachalam, P. S., Swaminathan, G., Eschholz, A., Gao, F., Wirz, O. F., Lam, B., Yang, E., Lee, L. W., Feng, A., Lewis, et al
  2024; 9 (5)
- **Integrative systems biology reveals NKG2A-biased immune responses correlate with protection in infectious disease, autoimmune disease, and cancer.** *Cell reports*
  Chen, D. G., Xie, J., Choi, J., Ng, R. H., Zhang, R., Li, S., Edmark, R., Zheng, H., Solomon, B., Campbell, K. M., Medina, E., Ribas, A., Khatri, et al
  2024; 43 (3): 113872
- **Corrigendum: Advances and potential of omics studies for understanding the development of food allergy.** *Frontiers in allergy*
  Sindher, S. B., Chin, A. R., Aghaeepour, N., Prince, L., Maecker, H., Shaw, G. M., Stevenson, D., Nadeau, K. C., Snyder, M., Khatri, P., Boyd, S. D., Winn, V. D., Angst, et al
  2024; 5: 1373485
- **Air Pollution and Pregnancy: Insights into Immune Response, Histone Modifications, and Cytokine Signatures**
  Jung, Y., Ha, J., Aguilera, J., Kaushik, A., Cansdale, S., Yang, E., Dermadi, D., Lurmann, F., Lutzker, L., Hammond, K., Balmes, J., Noth, E., Eisen, et al
  MOSBY-ELSEVIER.2024: AB370
- **Systems immunology of transcriptional responses to viral infection identifies conserved antiviral pathways across macaques and humans.** *Cell reports*
  Ratnasiri, K., Zheng, H., Toh, J., Yao, Z., Duran, V., Donato, M., Roederer, M., Kamath, M., Todd, J. M., Gagne, M., Foulds, K. E., Francica, J. R., Corbett, et al
  2024; 43 (2): 113706
- **Compact RNA sensors for increasingly complex functions of multiple inputs.** *bioRxiv : the preprint server for biology*
  Choe, C., Andreasson, J. O., Melaine, F., Kladwang, W., Wu, M. J., Portela, F., Wellington-Oguri, R., Nicol, J. J., Wayment-Steele, H. K., Gotrik, M., Participants, E., Khatri, P., Greenleaf, et al
  2024

- **Structured Knowledge Base Enhances Effective Use of Large Language Models for Metadata Curation.** *AMIA ... Annual Symposium proceedings. AMIA Symposium*
  Sundaram, S. S., Solomon, B., Khatri, A., Laumas, A., Khatri, P., Musen, M. A.
  2024; 2024: 1050-1058

- **Derivation, validation, and transcriptomic assessment of pediatric septic shock phenotypes identified through latent profile analyses: Results from a prospective multi-center observational cohort.** *Research square*
  Atreya, M. R., Huang, M., Moore, A. R., Zheng, H., Hasin-Brumshtein, Y., Fitzgerald, J. C., Weiss, S. L., Cvijanovich, N. Z., Bigham, M. T., Jain, P. N., Schwarz, A. J., Lutfi, R., Nowak, et al
  2023

- **Epigenetic Profiling of PTPN11 Mutant JMML Hematopoietic Stem and Progenitor Cells Reveals an Aberrant Histone Landscape.** *Cancers*
  Sinha, R., Dvorak, M., Ganesan, A., Kalesinskas, L., Niemeyer, C. M., Flotho, C., Sakamoto, K. M., Lacayo, N., Patil, R. V., Perriman, R., Cepika, A. M., Liu, Y. L., Kuo, et al
  2023; 15 (21)

- **An NKG2A biased immune response confers protection for infection, autoimmune disease, and cancer.** *Research square*
  Heath, J., Chen, D., Xie, J., Choi, J., Ng, R., Zhang, R., Li, S., Edmark, R., Zheng, H., Solomon, B., Campbell, K., Medina, E., Ribas, et al
  2023

- **Signature-driven repurposing of Midostaurin for combination with MEK1/2 and KRASG12C inhibitors in lung cancer.** *Nature communications*
  Macaya, I., Roman, M., Welch, C., Entrialgo-Cadierno, R., Salmon, M., Santos, A., Feliu, I., Kovalski, J., Lopez, I., Rodriguez-Remirez, M., Palomino-Echeverria, S., Lonfgren, S. M., Ferrero, et al
  2023; 14 (1): 6332

- **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

- **A machine learning classifier using 33 host immune response mRNAs accurately distinguishes viral and non-viral acute respiratory illnesses in nasal swab samples.** *Genome medicine*
  Pandya, R., He, Y. D., Sweeney, T. E., Hasin-Brumshtein, Y., Khatri, P.
  2023; 15 (1): 64

- **Ancestry-based differences in the immune phenotype are associated with lupus activity.** *JCI insight*
  Slight-Webb, S., Thomas, K., Smith, M., Wagner, C. A., Macwana, S., Bylinska, A., Donato, M., Dvorak, M., Chang, S. E., Kuo, A., Cheung, P., Kalesinskas, L., Ganesan, et al
  2023; 8 (16)

- **RUNX1 loss renders hematopoietic and leukemic cells dependent on interleukin-3 and sensitive to JAK inhibition.** *The Journal of clinical investigation*
  Fan, A. C., Nakauchi, Y., Bai, L., Azizi, A., Nuno, K. A., Zhao, F., Köhnke, T., Karigane, D., Cruz-Hernandez, D., Reinisch, A., Khatri, P., Majeti, R.
  2023

- **Blood transcriptional correlates of BCG-induced protection against tuberculosis in rhesus macaques.** *Cell reports. Medicine*
  Liu, Y. E., Darrah, P. A., Zeppa, J. J., Kamath, M., Laboune, F., Douek, D. C., Maiello, P., Roederer, M., Flynn, J. L., Seder, R. A., Khatri, P.
  2023: 101096

- **Addendum: Systems vaccinology of the BNT162b2 mRNA vaccine in humans.** *Nature*
  Arunachalam, P. S., Scott, M. K., Hagan, T., Li, C., Feng, Y., Wimmers, F., Grigoryan, L., Trisal, M., Edara, V. V., Lai, L., Chang, S. E., Feng, A., Dhingra, et al
  2023

- **Advances and potential of omics studies for understanding the development of food allergy.** *Frontiers in allergy*
  Sindher, S. B., Chin, A. R., Aghaeepour, N., Prince, L., Maecker, H., Shaw, G. M., Stevenson, D. K., Nadeau, K. C., Snyder, M., Khatri, P., Boyd, S. D., Winn, V. D., Angst, et al
  2023; 4: 1149008

- **The impacts of ambient air pollution exposure during pregnancy on maternal and neonatal inflammatory biomarkers**

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