


# Stanford


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## Purvesh Khatri

Associate Professor (Research) of Medicine (Biomedical Informatics - Research Institute for Immunity, Transplantation and Infection)

 NIH Biosketch available Online

 Curriculum Vitae available Online

### CONTACT INFORMATION

- **Alternate Contact**

Mary Watson - Administrative Assistant

**Email** [mwatson5@stanford.edu](mailto:mwatson5@stanford.edu)

### Bio

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#### ACADEMIC APPOINTMENTS

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

#### ADMINISTRATIVE APPOINTMENTS

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

### Research & Scholarship

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#### CLINICAL TRIALS

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

### Teaching

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#### COURSES

##### 2023-24

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

##### 2022-23

- Seminars in Computational and Systems Immunology: IMMUNOL 310 (Sum)

##### 2021-22

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)
- Seminars in Computational and Systems Immunology: IMMUNOL 310 (Sum)

##### 2020-21

- Essential Methods in Computational and Systems Immunology: IMMUNOL 207 (Spr)
- Seminars in Computational and Systems Immunology: IMMUNOL 310 (Sum)

## STANFORD ADVISEES

### Doctoral Dissertation Reader (AC)

Jason Nideffer

### Doctoral Dissertation Advisor (AC)

Jeanna Enriquez, Evan Maestri, Holly McCann

### Doctoral Dissertation Co-Advisor (AC)

Yiran Liu, Kalani Ratnasiri

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Phd Program)
- Immunology (Phd Program)

## Publications

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### PUBLICATIONS

- **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
- **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

- **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
- **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**  
Ha, J., Aguilera, J., Jung, Y., Cansdale, S., Lurmann, F., Lutzker, L., Hammond, K., Balmes, J., Noth, E., Eisen, E., Aghaeepour, N., Shaw, G., Waldrop, et al  
MOSBY-ELSEVIER.2023: AB119
- **Malaria-driven expansion of adaptive-like functional CD56-negative NK cells correlates with clinical immunity to malaria.** *Science translational medicine*  
Ty, M., Sun, S., Callaway, P. C., Rek, J., Press, K. D., van der Ploeg, K., Nideffer, J., Hu, Z., Klemm, S., Greenleaf, W., Donato, M., Tukwasibwe, S., Arinaitwe, et al  
2023; 15 (680): eadd9012
- **Multi-site validation of a host response signature for predicting likelihood of bacterial and viral infections in patients with suspected influenza.** *European journal of clinical investigation*  
Shojaei, M., Chen, U., Midic, U., Thair, S., Teoh, S., McLean, A., Sweeney, T. E., Thompson, M., Liesenfeld, O., Khatri, P., Tang, B.  
2023: e13957
- **Inferring direction of associations between histone modifications using a neural processes-based framework.** *iScience*  
Ganesan, A., Dermadi, D., Kalesinskas, L., Donato, M., Sowers, R., Utz, P. J., Khatri, P.  
2023; 26 (1): 105756
- **Characterising the autoantibody repertoire in systemic sclerosis following myeloablative haematopoietic stem cell transplantation.** *Annals of the rheumatic diseases*  
Ayoglu, B., Donato, M., Furst, D. E., Crofford, L. J., Goldmuntz, E., Keyes-Elstein, L., James, J., Macwana, S., Mayes, M. D., McSweeney, P., Nash, R. A., Sullivan, K. M., Welch, et al  
2023
- **Lamc2 Regulates Key Transcriptional and Targetable Effectors to Support Pancreatic Cancer Growth.** *Clinical cancer research : an official journal of the American Association for Cancer Research*  
Erice, O., Narayanan, S., Feliu, I., Entrialgo-Cadierno, R., Malinova, A., Vicentini, C., Guruceaga, E., Delfino, P., Trajkovic-Arsic, M., Moreno, H., Valencia, K., Blanco, E., Macaya, et al  
2023
- **Prediction of HLA genotypes from single-cell transcriptome data.** *Frontiers in immunology*  
Solomon, B. D., Zheng, H., Dillon, L. W., Goldman, J. D., Hourigan, C. S., Heath, J. R., Khatri, P.  
2023; 14: 1146826
- **Mass-cytometry-based quantitation of global histone post-translational modifications at single-cell resolution across peripheral immune cells in IBD.** *Journal of Crohn's & colitis*  
Bai, L., Dermadi, D., Kalesinskas, L., Dvorak, M., Chang, S. E., Ganesan, A., Rubin, S. J., Kuo, A., Cheung, P., Donato, M., Utz, P. J., Habtezion, A., Khatri, et al  
2022
- **A robust host-response-based signature distinguishes bacterial and viral infections across diverse global populations.** *Cell reports. Medicine*  
Rao, A. M., Popper, S. J., Gupta, S., Davong, V., Vaidya, K., Chanthongthip, A., Dittrich, S., Robinson, M. T., Vongsouvath, M., Mayxay, M., Nawtaisong, P., Karmacharya, B., Thair, et al  
2022; 3 (12): 100842
- **Single-cell RNA-seq methods to interrogate virus-host interactions.** *Seminars in immunopathology*  
Ratnasiri, K., Wilk, A. J., Lee, M. J., Khatri, P., Blish, C. A.  
2022
- **Programmable antivirals targeting critical conserved viral RNA secondary structures from influenza A virus and SARS-CoV-2.** *Nature medicine*  
Hagey, R. J., Elazar, M., Pham, E. A., Tian, S., Ben-Avi, L., Bernardin-Souibgui, C., Yee, M. F., Moreira, F. R., Rabinovitch, M. V., Meganck, R. M., Fram, B., Beck, A., Gibson, et al  
2022
- **Rapid GPR183-mediated recruitment of eosinophils to the lung after Mycobacterium tuberculosis infection.** *Cell reports*  
Bohrer, A. C., Castro, E., Tocheny, C. E., Assmann, M., Schwarz, B., Bohrsen, E., Makiya, M. A., Legrand, F., Hilligan, K. L., Baker, P. J., Torres-Juarez, F., Hu, Z., Ma, et al  
2022; 40 (4): 111144
- **Increasing reproducibility, robustness, and generalizability of biomarker selection from meta-analysis using Bayesian methodology.** *PLoS computational biology*  
Kalesinskas, L., Gupta, S., Khatri, P.

2022; 18 (6): e1010260

- **Host protease activity classifies pneumonia etiology.** *Proceedings of the National Academy of Sciences of the United States of America*  
Anahtar, M., Chan, L. W., Ko, H., Rao, A., Soleimany, A. P., Khatri, P., Bhatia, S. N.  
2022; 119 (25): e2121778119
- **An 8-gene machine learning model improves clinical prediction of severe dengue progression.** *Genome medicine*  
Liu, Y. E., Saul, S., Rao, A. M., Robinson, M. L., Agudelo Rojas, O. L., Sanz, A. M., Verghese, M., Solis, D., Sibai, M., Huang, C. H., Sahoo, M. K., Gelvez, R. M., Bueno, et al  
2022; 14 (1): 33
- **Increases in ambient air pollutants during pregnancy are linked to increases in methylation of IL4, IL10, and IFNgamma.** *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
- **Mechanisms of innate and adaptive immunity to the Pfizer-BioNTech BNT162b2 vaccine.** *Nature immunology*  
Li, C., Lee, A., Grigoryan, L., Arunachalam, P. S., Scott, M. K., Trisal, M., Wimmers, F., Sanyal, M., Weidenbacher, P. A., Feng, Y., Adamska, J. Z., Valore, E., Wang, et al  
2022
- **Author Correction: The immunoregulatory landscape of human tuberculosis granulomas.** *Nature immunology*  
McCaffrey, E. F., Donato, M., Keren, L., Chen, Z., Delmastro, A., Fitzpatrick, M. B., Gupta, S., Greenwald, N. F., Baranski, A., Graf, W., Kumar, R., Bosse, M., Fullaway, et al  
2022
- **Serum proteome analysis of systemic JIA and related lung disease identifies distinct inflammatory programs and biomarkers.** *Arthritis & rheumatology (Hoboken, N.J.)*  
Chen, G., Deutsch, G. H., Schulert, G., Zheng, H., Jang, S., Trapnell, B., Lee, P., Macaubas, C., Ho, K., Schneider, C., Saper, V. E., de Jesus, A. A., Krasnow, et al  
2022
- **A GMR-based assay for quantification of the human response to influenza.** *Biosensors & bioelectronics*  
Ravi, N., Chang, S. E., Franco, L. M., Nagamani, S. C., Khatri, P., Utz, P. J., Wang, S. X.  
2022; 205: 114086
- **A robust gene expression signature for NASH in liver expression data.** *Scientific reports*  
Hasin-Brumshtein, Y., Sakaram, S., Khatri, P., He, Y. D., Sweeney, T. E.  
2022; 12 (1): 2571
- **Cytokine signatures differentiate systemic sclerosis patients at high versus low risk for pulmonary arterial hypertension.** *Arthritis research & therapy*  
Kolstad, K. D., Khatri, A., Donato, M., Chang, S. E., Li, S., Steen, V. D., Utz, P. J., Khatri, P., Chung, L.  
2022; 24 (1): 39
- **The Single Cell Transcriptomic and Epigenomic Map of the Innate Immune Response to Vaccination in Lymph Nodes**  
Scott, M., Lee, A., Wimmers, F., Arunachalam, P., Fox, C., Tomai, M., Khatri, P., Pulendran, B.  
MOSBY-ELSEVIER.2022: AB316
- **A molecular atlas of innate immunity to adjuvanted and live attenuated vaccines, in mice.** *Nature communications*  
Lee, A., Scott, M. K., Wimmers, F., Arunachalam, P. S., Luo, W., Fox, C. B., Tomai, M., Khatri, P., Pulendran, B.  
1800; 13 (1): 549
- **A 6-mRNA host response classifier in whole blood predicts outcomes in COVID-19 and other acute viral infections.** *Scientific reports*  
Buturovic, L., Zheng, H., Tang, B., Lai, K., Kuan, W. S., Gillett, M., Santram, R., Shojaei, M., Almansa, R., Nieto, J. A., Munoz, S., Herrero, C., Antonakos, et al  
1800; 12 (1): 889
- **Disease characteristics and serological responses in patients with differing severity of COVID-19 infection: A longitudinal cohort study in Dhaka, Bangladesh.** *PLoS neglected tropical diseases*  
Akter, A., Ahmed, T., Tauheed, I., Akhtar, M., Rahman, S. I., Khaton, F., Ahmmed, F., Ferdous, J., Afrad, M. H., Kawser, Z., Hossain, M., Khondaker, R., Hasnat, et al  
2022; 16 (1): e0010102
- **The immunoregulatory landscape of human tuberculosis granulomas.** *Nature immunology*

- McCaffrey, E. F., Donato, M., Keren, L., Chen, Z., Delmastro, A., Fitzpatrick, M. B., Gupta, S., Greenwald, N. F., Baranski, A., Graf, W., Kumar, R., Bosse, M., Fullaway, et al  
2022
- **Comparison of the Transcriptomic Signatures in Pediatric and Adult CML.** *Cancers*  
Youn, M., Smith, S. M., Lee, A. G., Chae, H., Spiteri, E., Erdmann, J., Galperin, I., Jones, L. M., Donato, M., Abidi, P., Bittencourt, H., Lacayo, N., Dahl, et al  
1800; 13 (24)
  - **Identification of a LAMC2-regulated network featuring targetable effectors for dual therapies in pancreatic cancer.**  
Narayanan, S., Erice, O., Feliu, I., Vicentini, C., Entrialgo-Cadierno, R., Valencia, K., Guruceaga, E., Khatri, P., Corbo, V., Cambra, S., Ponz-Sarvisé, M.  
AMER ASSOC CANCER RESEARCH.2021: 59-60
  - **A Multi-mRNA Prognostic Signature for Anti-TNFalpha Therapy Response in Patients with Inflammatory Bowel Disease.** *Diagnostics (Basel, Switzerland)*  
Sakaram, S., Hasin-Brumshtein, Y., Khatri, P., He, Y. D., Sweeney, T. E.  
2021; 11 (10)
  - **Functional Consequences of Memory Inflation after Solid Organ Transplantation.** *Journal of immunology (Baltimore, Md. : 1950)*  
Higdon, L. E., Schaffert, S., Cohen, R. H., Montez-Rath, M. E., Lucia, M., Saligrama, N., Margulies, K. B., Martinez, O. M., Tan, J. C., Davis, M. M., Khatri, P., Maltzman, J. S.  
2021
  - **Evolution of Cytomegalovirus-Responsive T Cell Clonality following Solid Organ Transplantation.** *Journal of immunology (Baltimore, Md. : 1950)*  
Higdon, L. E., Schaffert, S., Huang, H., Montez-Rath, M. E., Lucia, M., Jha, A., Saligrama, N., Margulies, K. B., Martinez, O. M., Davis, M. M., Khatri, P., Maltzman, J. S.  
2021
  - **Computational drug repositioning of atorvastatin for ulcerative colitis.** *Journal of the American Medical Informatics Association : JAMIA*  
Bai, L., Scott, M. K., Steinberg, E., Kalesinskas, L., Habtezion, A., Shah, N. H., Khatri, P.  
2021
  - **Macrophage-derived IL-6 trans-signaling as a novel target in the pathogenesis of bronchopulmonary dysplasia.** *The European respiratory journal*  
Hirani, D., Alvira, C. M., Danopoulos, S., Milla, C., Donato, M., Tian, L., Mohr, J., Dinger, K., Vohlen, C., Selle, J., Koningsbruggen-Rietschel, S. V., Barbarino, V., Pallasch, et al  
2021
  - **The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination in humans**  
Wimmers, F., Donato, M., Kuo, A., Ashuach, T., Gupta, S., Li, C., Dvorak, M., Foecke, M., Chang, S. E., Hagan, T., De Jong, S. E., Maecker, H. T., Van der Most, et al  
WILEY.2021: 31
  - **A novel blood-based assay for treatment monitoring of tuberculosis.** *BMC research notes*  
Zimmer, A. J., Schumacher, S. G., Sodersten, E., Mantsoki, A., Wyss, R., Persing, D. H., Banderby, S., Stromqvist Meuzelaar, L., Prieto, J., Gnanashanmugam, D., Khatri, P., Ongarello, S., Ruhwald, et al  
2021; 14 (1): 247
  - **Prospective validation of an 11-gene mRNA host response score for mortality risk stratification in the intensive care unit.** *Scientific reports*  
Moore, A. R., Roque, J., Shaller, B. T., Asuni, T., Rimmel, M., Rawling, D., Liesenfeld, O., Khatri, P., Wilson, J. G., Levitt, J. E., Sweeney, T. E., Rogers, A. J.  
2021; 11 (1): 13062
  - **The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination.** *Cell*  
Wimmers, F., Donato, M., Kuo, A., Ashuach, T., Gupta, S., Li, C., Dvorak, M., Foecke, M. H., Chang, S. E., Hagan, T., De Jong, S. E., Maecker, H. T., van der Most, et al  
2021
  - **Repression of CTSG, ELANE and PRTN3-mediated histone H3 proteolytic cleavage promotes monocyte-to-macrophage differentiation.** *Nature immunology*  
Cheung, P., Schaffert, S., Chang, S. E., Dvorak, M., Donato, M., Macaubas, C., Foecke, M. H., Li, T., Zhang, L., Coan, J. P., Schulert, G. S., Grom, A. A., Henderson, et al  
2021
  - **Diversity in immunogenomics: the value and the challenge.** *Nature methods*

- Peng, K., Safonova, Y., Shugay, M., Popejoy, A. B., Rodriguez, O. L., Breden, F., Brodin, P., Burkhardt, A. M., Bustamante, C., Cao-Lorreau, V., Corcoran, M. M., Duffy, D., Fuentes-Guajardo, et al  
2021
- **iPSC-endothelial cell phenotypic drug screening and in silico analyses identify tyrphostin-AG1296 for pulmonary arterial hypertension.** *Science translational medicine*  
Gu, M., Donato, M., Guo, M., Wary, N., Miao, Y., Mao, S., Saito, T., Otsuki, S., Wang, L., Harper, R. L., Sa, S., Khatri, P., Rabinovitch, et al  
2021; 13 (592)
  - **Systems biological assessment of human immunity to BNT162b2 mRNA vaccination.** *Research square*  
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  
2021
  - **Gene Expression-Based Diagnosis of Infections in Critically Ill Patients-Prospective Validation of the SepsisMetaScore in a Longitudinal Severe Trauma Cohort.** *Critical care medicine*  
Thair, S., Mewes, C., Hinz, J., Bergmann, I., Buttner, B., Schmisch, S., Meissner, K., Quintel, M., Sweeney, T. E., Khatri, P., Mansur, A.  
2021
  - **Multisystem inflammatory syndrome in children: a microcosm of challenges and opportunities for translational bioinformatics in pediatric research.** *Current opinion in pediatrics*  
Murphy Jones, L., Khatri, P.  
2021
  - **Multi-cohort analysis of host immune response identifies conserved protective and detrimental modules associated with severity across viruses.** *Immunity*  
Zheng, H., Rao, A. M., Dermadi, D., Toh, J., Murphy Jones, L., Donato, M., Liu, Y., Su, Y., Dai, C. L., Kornilov, S. A., Karagiannis, M., Marantos, T., Hasin-Brumshtein, et al  
2021
  - **Transcriptomic similarities and differences in host response between SARS-CoV-2 and other viral infections.** *iScience*  
Thair, S. A., He, Y. D., Hasin-Brumshtein, Y., Sakaram, S., Pandya, R., Toh, J., Rawling, D., Rimmel, M., Coyle, S., Dalekos, G. N., Koutsodimitropoulos, I., Vlachogianni, G., Gkeka, et al  
2021; 24 (1): 101947
  - **SIMON: Open-Source Knowledge Discovery Platform.** *Patterns (New York, N.Y.)*  
Tomic, A., Tomic, I., Waldron, L., Geistlinger, L., Kuhn, M., Spreng, R. L., Dahora, L. C., Seaton, K. E., Tomaras, G., Hill, J., Duggal, N. A., Pollock, R. D., Lazarus, et al  
2021; 2 (1): 100178
  - **A multi-scale integrated analysis identifies KRT8 as a pan-cancer early biomarker.** *Pacific Symposium on Biocomputing. Pacific Symposium on Biocomputing*  
Scott, M. K., Limaye, M., Schaffert, S., West, R., Ozawa, M. G., Chu, P., Nair, V. S., Koong, A. C., Khatri, P.  
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