

# Stanford

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## PJ Utz

Professor of Medicine (Immunology and Rheumatology)

Medicine - Immunology & Rheumatology

NIH Biosketch available Online

Curriculum Vitae available Online

### CONTACT INFORMATION

- **Alternate Contact**

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**Tel** 650-888-0887

### Bio

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#### BIO

I am a physician scientist who has dedicated my career to understanding and curing human rheumatic diseases; to building a physician scientist pipeline that extends from high school students all the way to scientists in academia, industry, and government; and to promoting team science and interdisciplinary research.

I direct a research lab in the Department of Medicine, Division of Immunology at Stanford University School of Medicine. My lab actively collaborates with many investigators on the Stanford campus, and across the world, with a goal to disseminate and implement newly-invented technologies. We study vaccines and autoimmune diseases, including systemic lupus erythematosus (SLE), scleroderma, rheumatoid arthritis (RA), myositis, primary biliary cirrhosis (PBC), Sjögren's disease, type I diabetes (T1D), vasculitis, multiple sclerosis (MS), immunodeficiency disorders, COVID-19 related autoimmunity, mixed connective tissue disease (MCTD), and autoimmunity induced by infections. In addition to trying to better understand the pathogenic mechanisms involved in autoimmunity, we are interested in developing bench-to-bedside technologies, including multiplexed diagnostics and therapeutics, for human immune diseases. Our group made several breakthrough inventions, such as protein arrays, peptide arrays, HIT, lysate arrays, Intel arrays, and more recently EpiTOF.

In terms of leadership. I have extensive expertise in coordinating 12 different program project grants over the last 15 years, including PI of our Autoimmunity Center of Excellence, and Leadership Center PI for the \$41M Accelerating Medicines Partnership in RA/SLE initiative, Co-PI of Stanford's RECOVER program, and PI on biomarker studies for Pfizer's STOP-PASC Paxlovid trial. I was selected as Vice Chair of RECOVER's Immunology and Hematology Pathobiology Task Force Committee and currently serve on the RECOVER OCSC Steering Committee. In 2018, I was appointed Associate Dean of Medical Student Research, and I am the Director Emeritus of the Stanford MSTP. I have been a member of the MSTP Admissions Committee for 20 years, served as Associate Director and Co-Director from 2009-2013, and directed the MSTP until 2018. I am a leader in educational initiatives. I was the first Chair of Education for the Federation of Clinical Immunology Societies. I founded and direct the Stanford Institutes of Medicine Research (SIMR) Program for high school students, which has hosted over 1,000 students in labs over 25 years. SIMR has been funded by educational grants from NIH, HHMI, CIRM, DDCF, Amgen Foundation, industry, and philanthropy. It serves as an important pipeline program for MSTP. I have served on the Immunology Program Predoctoral Committee and have won teaching and mentoring awards from the Immunology PhD Program and the Department of Medicine. In the last 25 years I have trained almost 70 scientists; served on 64 PhD thesis committees in 3 Schools on campus; successfully graduated 14 PhD students who trained in my lab; and have trained or are training many postdoctoral fellows. Of my graduate students, scholars, and fellows, 12 are currently employed in industry and 12 are Assistant or Associate Professors at academic institutions. Most recently, I have taken on directorship of

Department of Medicine's Team Science program and have championed physician scientist careers as co-founder and secretary of the Physician Scientist Support Foundation (thepssf.org).

## ACADEMIC APPOINTMENTS

- Professor, Medicine - Immunology & Rheumatology
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

## ADMINISTRATIVE APPOINTMENTS

- RECOVER OCSC Steering Committee, NIH, (2023- present)
- Program Director, Department of Medicine Team Science Initiative, Stanford University, (2022- present)
- KL2 Mentored Career Development Award Council of Mentors, Stanford University, (2022-2024)
- Admissions Committee to Advise on Physician Scientist Training Program (PSTP) & Berg Scholars, Stanford University, (2022-2023)
- Vice Chair of the RECOVER Immunology and Hematology Pathobiology Task Force Committee, Stanford University, (2021-2023)
- Program Director, Physician Scientist Training Program (PSTP), Stanford University, (2019- present)
- Associate Dean for Medical Student Research, Stanford University, (2018- present)
- Emeritus Director, Medical Science Training Program (MSTP), Stanford University, (2018- present)
- Member, Stanford University Student Support Advisory Board, Stanford University, (2017- present)
- Co-Founder and Secretary, Physician Scientist Support Foundation, (2016- present)
- Member, Biomedical Innovation/Basic Science Workgroup, Stanford University, (2016- present)
- Member, Committee on Health and Safety, Stanford University, (2015-2018)
- Program Director, Accelerating Medicines Partnership (AMP) Leadership Center for RA/SLE, Stanford University School of Medicine, (2014-2022)
- Co-Chair, Task Force for Advancing the Culture of Laboratory Safety, Stanford University, (2013-2018)
- Program Director, Medical Science Training Program (MSTP), Stanford University School of Medicine, (2013-2018)
- Professor of Medicine, Stanford University School of Medicine, (2012- present)
- Program Director, Rheumatology Adult and Pediatric T32 Training Grant, Stanford University School of Medicine, (2012-2013)
- Program Director, Rheumatology Fellowship Program., Stanford University School of Medicine, (2012-2013)
- Member, Committee on Professionalism, Performance, and Promotion, Stanford University School of Medicine, (2009-2018)
- Associate Director, Medical Science Training Program, Stanford University School of Medicine, (2009-2013)
- Board of Directors, Northern California Arthritis Foundation, (2008-2009)
- Associate Director of Education, ITI Institute, Stanford University, (2007- present)
- Program Director, Stanford EXPLORE Program, Stanford University School of Medicine, (2007- present)
- Member, Cardiovascular Institute Steering Committee, Stanford University School of Medicine, (2007-2010)
- Treasurer and Secretary, FOCIS, Federal of Clinical Immunology Societies, (2007-2010)
- Chair of Education, FOCIS, Federal of Clinical Immunology Societies, (2003-2007)
- Appointed Councillor, Clinical Immunology Society, (2003-2006)
- Member, MSTP (Medical Science Training Program), Stanford University School of Medicine, (2002- present)
- Member, Dean's Committee on Diversity, Stanford University School of Medicine, (2002-2006)
- Founder and Program Director, Stanford Institutes of Medicine Research (SIMR) Program, Stanford University School of Medicine, (2000- present)

- Member, Immunology Graduate program Predoctoral Committee, Stanford University School of Medicine, (2000-2003)
- Member, Faculty Senate, Stanford Hospital, (2000-2002)
- Member, Internship Selection Committee, Stanford University Hospital, (1999-2005)

## HONORS AND AWARDS

- King's College Alumni Award: Professional Achievement – Arts & Sciences, King's College (2021)
- Speaker, Immunology Seminar Series and Grand Rounds, University of Pittsburgh (2018)
- Visiting Professor, Hampton College (2017)
- Rheumatology Visiting Professor, University of Colorado at Denver (2016)
- Immunology and Rheumatology Division Teaching Award, Stanford University School of Medicine (2012)
- Department of Medicine Teaching Award, Stanford University School of Medicine (2009)
- Distinguished Visiting Professor, Department of Medicine, Mayo Clinic (2009)
- Faculty Fellows Program, Stanford University School of Medicine (2009)
- Stanford University Office of Diversity and Leadership, School of Medicine Faculty Fellow (2008-2009)
- Department of Medicine Teaching Award, Stanford University School of Medicine (2008)
- Elected Member, American Society for Clinical Investigation (2007)
- Exceptional Preceptor Certificate of Appreciation, Stanford University School of Medicine, Ambulatory Medicine Clerkship (2006-2007)
- Elected Member, The Kunkel Society (2006)
- Divisional Teaching Award, Stanford University (2002)
- Immunology Graduate Program Teaching and Mentoring Award, Stanford University (2002)
- Baxter Fellowship, Donald and Delia Baxter (2000)
- Proteomics Award Nominee, FOCIS (2000)
- Stanford Clinical Medicine Award, Stanford University (1991)
- Advanced Predoctoral Fellowship in Pharmacology and Toxicology, Pharmaceutical Mfg. Association (1988-1989)
- Merck Student Research Fellowship, American Heart Association (1988-1989)
- Alpha Epsilon Delta, Vice President, Stanford University (1988)
- Delta Epsilon Delta, Stanford University (1988)
- Stanford Medical Scholars Fellowship, Stanford University (1987)
- Center for Independent Learning Achievement Award, King's College (1986)
- Regina Award for Biology, King's College (1986)
- Aquinas Society, Aquinas Society (1985-1986)
- Sidney Farber Research Award, Roswell Park Memorial Institute (1985)
- CRC Chemistry Award, King's College (1983)
- King's College Dean's List, summa cum laude, King's College (1982-1986)
- King's College Scholarship Committee Award, King's College (1982-1986)
- Bausch and Lomb Science Award, Bausch and Lomb (1982)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Arthritis National Research Foundation, Scientific Advisory Board (2017 - present)
- Special Study Section Reviewer, National Institutes of Allergy and Infectious Disease (NIAID) (2011 - 2012)

- Editorial Advisory Board Member, Current Rheumatology Reviews (2005 - 2008)
- Study Section Reviewer, National Institutes of Health, Vaccines against Microbial Diseases (2012 - 2013)
- Editorial Board Member, Clinical and Translational Science (CTS) (new journal) (2008 - 2011)
- Editorial Board Member, BMC Research Notes (new journal) (2007 - 2010)
- Editorial Board Member, Bioanalytical Reviews (2008 - 2011)
- Editorial Board Member, Arthritis Research & Therapy (2016 - present)
- Advisory Board Member, TRACER, part of the Center for Translational Molecular Medicine (CTMM), The Netherlands (2010 - 2012)

## PROFESSIONAL EDUCATION

- M.D., Stanford University , Medicine (1991)
- B.S., King's College , Biology (1986)

## COMMUNITY AND INTERNATIONAL WORK

- Stanford EXPLORE Summer Program, Stanford University
- SIMR Summer Student Intern Program, Stanford University

## LINKS

- Utz Lab at Stanford: <https://web.stanford.edu/group/utzlab>

## Research & Scholarship

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### CURRENT RESEARCH AND SCHOLARLY INTERESTS

The Utz lab focuses on the immune system of patients with immunodeficiency disorders, infections, and autoimmune diseases such as systemic lupus erythematosus (SLE), rheumatoid arthritis (RA), systemic sclerosis (scleroderma), myositis, primary biliary cirrhosis (PBC), Sjögren's disease, insulin dependent diabetes (type I diabetes or IDDM), multiple sclerosis (MS), inflammatory bowel disease (IBD), Castleman's disease, and mixed connective tissue disease (MCTD).

We develop bench-to-bedside technologies, including diagnostics and therapeutics, for human immune diseases. Our lab is also active in vaccine biology, both for inducing protective immunity to pathogens and for turning off immune responses in autoimmune diseases. We have recently pivoted efforts to study SARS-CoV-2, testing the hypothesis that the virus causes autoimmunity. Major goals of our studies are:

- (1) To test the hypothesis that the virus that causes COVID-19 causes autoimmunity to develop in a subset of patients. We are working with many labs and Stanford patients to screen for autoantibodies, then to determine why they develop and how this impacts disease.
- (2) To understand the mechanisms by which highly-conserved, diverse molecules and complexes such as histones and splicing particles are targeted by T and B lymphocytes, leading to organ-specific autoimmune disease.
- (3) To invent and validate novel technologies for high-throughput, multiplex proteomics. Examples of technologies we have pioneered include protein and peptide microarrays, reverse phase protein lysate microarrays, high throughput immunophenotyping using transcription, and most recently Epigenetic CyTOF (EpiTOF).
- (4) To take advantage of the information provided by autoantibody profiling methods to develop antigen-specific tolerizing therapies for common autoimmune diseases.

Our work has led to human clinical trials of tolerizing vaccines in MS, and T1D.

## Teaching

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### COURSES

#### 2023-24

- Physician Scientist Career Development Symposium: INDE 258 (Spr)

#### 2022-23

- PSTP Career Development Symposium: INDE 258 (Spr)

**2021-22**

- Planning and Writing a Research Proposal: INDE 267 (Win)

## STANFORD ADVISEES

### Doctoral Dissertation Reader (AC)

Preksha Bhagchandani, Maria Filsinger Interrante, Brenda Velasco

### Postdoctoral Research Mentor

Ana Pacheco-Navarro, Jiyeon Park, Laura van Dam

## GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biomedical Informatics (Masters Program)
- Biomedical Informatics (Phd Program)
- Cardiovascular Medicine (Fellowship Program)
- Immunology (Phd Program)
- Medicine (Masters Program)

## Publications

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### PUBLICATIONS

- **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)
- **Longitudinal patterns and predictors of response to standard-of-care therapy in lupus nephritis: data from the Accelerating Medicines Partnership Lupus Network.** *Arthritis research & therapy*  
Izmirly, P. M., Kim, M. Y., Carlucci, P. M., Preisinger, K., Cohen, B. Z., Deonaraine, K., Zaminski, D., Dall'Era, M., Kalunian, K., Fava, A., Belmont, H. M., Wu, M., Puttermann, et al  
2024; 26 (1): 54
- **T cell help shapes B cell tolerance.** *Science immunology*  
Akama-Garren, E. H., Yin, X., Prestwood, T. R., Ma, M., Utz, P. J., Carroll, M. C.  
2024; 9 (92): eadj7029
- **Xist ribonucleoproteins promote female sex-biased autoimmunity.** *Cell*  
Dou, D. R., Zhao, Y., Belk, J. A., Zhao, Y., Casey, K. M., Chen, D. C., Li, R., Yu, B., Srinivasan, S., Abe, B. T., Kraft, K., Hellström, C., Sjöberg, et al  
2024; 187 (3): 733-749.e16
- **Unveiling the autoreactome: Proteome-wide immunological fingerprints reveal the promise of plasma cell depleting therapy.** *medRxiv : the preprint server for health sciences*  
Bodansky, A., Yu, D. J., Rallistan, A., Kalaycioglu, M., Boonyaratantanakornkit, J., Green, D. J., Gauthier, J., Turtle, C. J., Zorn, K., O'Donovan, B., Mandel-Brehm, C., Asaki, J., Kortbawi, et al  
2023
- **Identification of Autoantibodies Associated with Connective Tissue Disorders in Idiopathic Multicentric Castleman Disease**  
Feng, A., Gonzalez, M. V., Mumau, M., Shyamsundar, S., Utz, P. J., Fajgenbaum, D. C.  
AMER SOC HEMATOLOGY.2023
- **Antigen presentation by B cells enables epitope spreading across an MHC barrier.** *Nature communications*  
Fahlquist-Hagert, C., Wittenborn, T. R., Terczy#ska-Dyla, E., Kastberg, K. S., Yang, E., Rallistan, A. N., Marktett, Q. R., Winther, G., Fonager, S., Voss, L. F., Pedersen, M. K., van Campen, N., Ferapontov, et al

2023; 14 (1): 6941

- **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)
- **Air pollution and pregnancy.** *Seminars in perinatology*  
Aguilera, J., Konvinse, K., Lee, A., Maecker, H., Prunicki, M., Mahalingaiah, S., Sampath, V., Utz, P. J., Yang, E., Nadeau, K. C.  
2023: 151838
- **Xist Ribonucleoproteins Promote Female Sex-biased Autoimmunity**  
Dou, D., Zhao, Y., Belk, J., Zhao, Y., Casey, K., Chen, D., Li, R., Yu, B., Srinivasan, S., Abe, B., Kraft, K., Hellstroem, C., Sjoeberg, et al  
WILEY.2023: 25-26
- **ANTIDOPAMINE RECEPTOR AUTOANTIBODY DETECTION IN POSTINFECTIOUS NEUROPSYCHIATRIC SYNDROMES**  
Yin, X., Prestwood, T., Utz, P. J., Frankovich, J.  
ELSEVIER SCIENCE INC.2023: S273
- **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
- **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)
- **Endothelial biomarkers of systemic sclerosis-associated pulmonary hypertension.** *Arthritis care & research*  
Lammi, M. R., Kolstad, K. D., Saketkoo, L. A., Khatri, A., Utz, P. J., Steen, V. D., Chung, L.  
2023
- **Researching COVID to Enhance Recovery (RECOVER) adult study protocol: Rationale, objectives, and design.** *PloS one*  
Horwitz, L. I., Thaweechai, T., Brosnahan, S. B., Cicek, M. S., Fitzgerald, M. L., Goldman, J. D., Hess, R., Hodder, S. L., Jacoby, V. L., Jordan, M. R., Krishnan, J. A., Laiyemo, A. O., Metz, et al  
2023; 18 (6): e0286297
- **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
- **IL-12 drives the differentiation of human T follicular regulatory cells**  
Locci, M., Castano, D., Wang, S., Sharpe, H., Bustamante, J., Yang, E., Feng, A., Le Coz, C., Romberg, N. D., Utz, P. J., Henrickson, S. E., Casanova, J.  
AMER ASSOC IMMUNOLOGISTS.2023
- **Autoantibody Profiles Differ in Immunocompromised Hospitalized COVID-19 Patients, But Are Not Associated With Mortality**  
Morin, H. D., Pacheco-Navarro, A. E., Yang, E., Caldwell, E., Thompson, B., Baron, R. M., Aggarwal, N. R., Maldonado, Y., Bollyky, J., Matthay, M. A., Hough, C., Utz, P. J., Rogers, et al  
AMER THORACIC SOC.2023
- **Autoantibodies Are Prevalent in Hospitalized COVID-19 Patients, But Are Not Associated With Short-term Outcomes**  
Pacheco-Navarro, A., Yang, E., Caldwell, E., Thompson, B., Aggarwal, N. R., Maldonado, Y., Bollyky, J., Matthay, M. A., Hough, C., Utz, P. J., Rogers, A.  
AMER THORACIC SOC.2023
- **Climate change and public health: The effects of global warming on the risk of allergies and autoimmune diseases: The effects of global warming on the risk of allergies and autoimmune diseases.** *EMBO reports*  
Lee, A. S., Aguilera, J., Efobi, J. A., Jung, Y. S., Seastedt, H., Shah, M. M., Yang, E., Konvinse, K., Utz, P. J., Sampath, V., Nadeau, K. C.  
2023: e56821
- **Autoantibodies are highly prevalent in non-SARS-CoV-2 respiratory infections and critical illness.** *JCI insight*

- Feng, A., Yang, E. Y., Moore, A. R., Dhingra, S., Chang, S. E., Yin, X., Pi, R., Mack, E. K., Völkel, S., Geßner, R., Gündisch, M., Neubauer, A., Renz, et al 2023; 8 (3)
- **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
  - **Systems biological assessment of the temporal dynamics of immunity to a viral infection in the first weeks and months of life.** *medRxiv : the preprint server for health sciences*  
Wimmers, F., Burrell, A. R., Feng, Y., Zheng, H., Arunachalam, P. S., Hu, M., Spranger, S., Nyhoff, L., Joshi, D., Trisal, M., Awasthi, M., Bellusci, L., Ashraf, et al 2023
  - **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
  - **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
  - **Development of a Definition of Postacute Sequelae of SARS-CoV-2 Infection.** *JAMA*  
Thaweechai, T., Jolley, S. E., Karlson, E. W., Levitan, E. B., Levy, B., McComsey, G. A., McCormell, L., Nadkarni, G. N., Parthasarathy, S., Singh, U., Walker, T. A., Selvaggi, C. A., Shinnick, et al 2023
  - **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
  - **Clonal replacement sustains long-lived germinal centers primed by respiratory viruses.** *Cell*  
de Carvalho, R. V., Ersching, J., Barbulescu, A., Hobbs, A., Castro, T. B., Mesin, L., Jacobsen, J. T., Phillips, B. K., Hoffmann, H. H., Parsa, R., Canesso, M. C., Nowosad, C. R., Feng, et al 2022
  - **New-Onset Autoantibodies Are Prevalent in Non-COVID Critical Illness**  
Moore, A. R., Feng, A., Roque, J., Asuni, T., Yang, E., Yin, X., Utz, P. J., Rogers, A.  
AMER THORACIC SOC.2022
  - **Anti-phospholipid antibodies are elevated and functionally active in chronic rhinosinusitis with nasal polyps** *CLINICAL AND EXPERIMENTAL ALLERGY*  
Eide, J. G., Wu, J., Stevens, W. W., Bai, J., Hou, S., Huang, J. H., Rosenberg, J., Utz, P., Shintani-Smith, S., Conley, D. B., Welch, K. C., Kern, R. C., Hulse, et al 2022; 52 (8): 954-964
  - **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
  - **KIR+CD8+ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19.** *Science (New York, N.Y.)*  
Li, J., Zaslavsky, M., Su, Y., Guo, J., Sikora, M. J., van Unen, V., Christophersen, A., Chiou, S., Chen, L., Li, J., Ji, X., Wilhelmy, J., McSween, et al 2022: eabi9591
  - **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

- **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
- **High Interferon Signature Leads to Increased STAT1/3/5 Phosphorylation in PBMCs From SLE Patients by Single Cell Mass Cytometry** *FRONTIERS IN IMMUNOLOGY*  
Yiu, G., Rasmussen, T., Tsai, B. L., Diep, V. K., Haddon, D. J., Tsoi, J., Miller, G. D., Comin-Anduix, B., Deleuran, B., Crooks, G. M., Utz, P. J.  
2022; 13: 833636
- **Autoantibodies targeting cytokines and connective tissue disease autoantigens are common in acute non-SARS-CoV-2 infections.** *Research square*  
Feng, A., Yang, E., Moore, A., Dhingra, S., Chang, S., Yin, X., Pi, R., Mack, E., Völkel, S., Geßner, R., Gundisch, M., Neubauer, A., Renz, et al  
2022
- **Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity.** *Science translational medicine*  
Chakraborty, S., Gonzalez, J. C., Sievers, B. L., Mallajosyula, V., Chakraborty, S., Dubey, M., Ashraf, U., Cheng, B. Y., Kathale, N., Tran, K. Q., Scallan, C., Sinnott, A., Cassidy, et al  
1800: eabm7853
- **Translating science to medicine: The case for physician-scientists.** *Science translational medicine*  
Utz, P. J., Jain, M. K., Cheung, V. G., Kobilka, B. K., Lefkowitz, R., Yamada, T., Dzau, V. J.  
2022; 14 (632): eabg7852
- **Immune Dysregulation in Acute SARS-CoV-2 Infection.** *Pathogens & immunity*  
Grimm, L., Onyeukwu, C., Kenny, G., Parent, D. M., Fu, J., Dhingra, S., Yang, E., Moy, J., Utz, P. J., Tracy, R., Landay, A.  
2022; 7 (2): 143-170
- **The intersection of COVID-19 and autoimmunity.** *The Journal of clinical investigation*  
Knight, J. S., Caricchio, R., Casanova, J. L., Combes, A. J., Diamond, B., Fox, S. E., Hanauer, D. A., James, J. A., Kanthi, Y., Ladd, V., Mehta, P., Ring, A. M., Sanz, et al  
2021
- **New-onset IgG autoantibodies in hospitalized patients with COVID-19.** *Nature communications*  
Chang, S. E., Feng, A., Meng, W., Apostolidis, S. A., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthurajah, S., Dhingra, et al  
2021; 12 (1): 5417
- **Single-cell Profiling of B and T Cell Repertoire and Gene Expression in the RA Synovium Reveals Tissue Specific Clonal Expansion**  
Meednu, N., Wagner, A., Dunlap, G., Zhang, F., Jonsson, A., Wei, K., Utz, P., Robinson, W., Maecker, H., James, J., Guthridge, J., Bridges, S., Bykerk, et al  
WILEY.2021: 951-952
- **New-Onset IgG Autoantibodies in Hospitalized Patients with COVID-19**  
Chang, S., Feng, A., Meng, W., Apostolidis, S., Mack, E., Artandi, M., Barman, L., Bennett, K., Chakraborty, S., Chang, I., Cheung, P., Chinthurajah, S., Dhingra, et al  
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- **The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination in humans**  
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• **SUP-HD1 - A NEW HODGKINS DISEASE-DERIVED CELL-LINE WITH LYMPHOID FEATURES PRODUCES INTERFERON-GAMMA BLOOD**

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## PRESENTATIONS

- 2016 Rheumatology Visiting Professor and Grand Rounds Speaker, University of Colorado, Denver - Rheumatology Department, University of Colorado at Denver (5/16/2016)
- 2016 American College of Rheumatology 2016 Annual Meeting, Washington DC - ACR (11/15/2016)
- 2016 Hampton University Research Seminar Speaker, Hampton, VA - Hampton University (11/18/2016)
- 2017 HHMI Career Development for Physician Scientists
- 2017 Korean Rheumatology Society, Seoul, SK "Immune Profiling of Autoimmunity"
- 2017: Infectious Disease Society of America Annual 2017 Meeting; ID Week, San Diego, CA "B Cell Biology: What the ID Physician Needs to Know"
- 2017 FDA OCE Workshop: Assessment of Cardiovascular Toxicities in Immuno-Oncology Trials, Silver Spring, MD "Autoimmunity Associated with Immunotherapies"
- 20018 Panelist, Dual-Degree Admissions Panel, American Physician Scientists Association Annual Meeting, Chicago, IL.
- 2018 Lupus 21st Century 2018 Conference, Armonk, NY "EpiTOF – A New Method for Characterizing the Epigenome in SLE".
- 2018 University of Pittsburgh Seminar Series, Department of Immunology, Pittsburgh, PA "New Methods for Characterizing Human Autoimmune Disease".
- 2018 University of Pittsburgh Rheumatology Grand Rounds, Pittsburgh, PA "Physician Scientists in Rheumatology: Positioning Cavemen for Success in Studying Human Autoimmunity".
- 2018 GREAT Group Annual Meeting, Atlanta, GA "Update on the Landscape of Physician-Scientist Training Programs
- 2018 APSA Physician Scientist Meeting, Sacramento, CA "Tips for the Future Physician Investigator"
- 2019 Northern California Scleroderma Research Consortium, Brisbane, CA "New Technologies for Studying SSC".
- 2019 Lupus 2019, New Technologies, 13th International Congress on SLE, San Francisco, CA "Multiplexed Assays for Studying SLE".
- 2019 Future Ready Scholars Program, UC Berkeley, CA. "Life as Physician Scientist" and "Careers in STEM and Health Care"
- 2019 Helix Summer Program, UC Berkeley, CA. "Life as Physician Scientist" and "Careers in STEM and Health Care"
- 2020, Physician Scientist Support Foundation, "Overview of Life as a Physician Scientist Career" - National Academy of Medicine 2020 Meeting, Washington DC
- 2020, Hampton University Physician-Scientist Research Seminar, "Life as a Physician Scientist" - Hampton University