Stanford

Tyler Prestwood

Clinical Assistant Professor, Psychiatry and Behavioral Sciences

CLINICAL OFFICE (PRIMARY)

- **Outpatient Psychiatry Clinic in Palo Alto**
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Bio

BIO

Tyler Prestwood, M.D., Ph.D. specializes in the treatment of people with psychotic disorders and psychiatric complications with immunologic abnormalities. He is an attending in the INSPIRE Clinic at Stanford, which provides interdisciplinary care for people experiencing psychosis. He also provides care for patients experiencing psychiatric symptoms associated with long-COVID/Post-Acute Coronavirus Syndrome (PACS).

Dr. Prestwood has extensive research experience related to the immune system in various contexts including infectious disease, cancer, and psychiatry. His current work is focused on understanding the influence of infections, the immune response to infections, and metabolism on the subsequent development of psychiatric illnesses, including schizophrenia and PACS.

CLINICAL FOCUS

- Psychiatry

ACADEMIC APPOINTMENTS

- Clinical Assistant Professor, Psychiatry and Behavioral Sciences

PROFESSIONAL EDUCATION

- Board Certification: Psychiatry, American Board of Psychiatry and Neurology (2023)
- Residency: Stanford University Psychiatry and Behavioral Sciences (2023) CA
- Medical Education: Stanford University School of Medicine (2019) CA

Publications

PUBLICATIONS

- **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
- **ANTIDOPAMINE RECEPTOR AUTOANTIBODY DETECTION IN POSTINFECTIOUS NEUROPSYCHIATRIC SYNDROMES**
  Yin, X., Prestwood, T., Utz, P. J., Frankovich, J.
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- **Neutrophil-activating therapy for the treatment of cancer.** *Cancer cell*
  Linde, I. L., Prestwood, T. R., Qiu, J., Pilarowski, G., Linde, M. H., Zhang, X., Shen, L., Reticker-Flynn, N. E., Chiu, D. K., Sheu, L. Y., Van Deursen, S., Tolentino, L. L., Song, et al
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- **Roles of inflammation in intrinsic pathophysiology and antipsychotic drug-induced metabolic disturbances of schizophrenia.** *Behavioural brain research*
  Prestwood, T. R., Asgariroozbehani, R. n., Wu, S. n., Agarwal, S. M., Logan, R. W., Ballon, J. S., Hahn, M. K., Freyberg, Z. n.
  2021: 113101

- **Human Regulatory Dendritic Cells Develop From Monocytes in Response to Signals From Regulatory and Helper T Cells.** *Frontiers in immunology*
  Zhang, X., Zheng, P., Prestwood, T. R., Zhang, H., Carmi, Y., Tolentino, L. L., Wu, N., Choi, O., Winer, D. A., Strober, S., Kang, E. S., Alonso, M. N., Engleman, et al
  2020; 11: 1982

- **Should Involuntary ECT Be Pursued Against the Wishes of the Patient's Family?** *The journal of ECT*
  Nkrumah, R., Prestwood, T., Haq, A.
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- **Human regulatory dendritic cells develop from monocytes in response to signals from regulatory and helper T cells** *Frontiers In Immunology*
  Zhang, X., Zheng, P., Prestwood, T., Zhang, H., Cami, Y., Tolentino, L., Wu, N., Choi, O., Winer, D., Strober, S., Kang, E., Alonso, M., Engleman, et al
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- **Enteric Glia Play a Critical Role in Promoting the Development of Colorectal Cancer** *Frontiers in Oncology*
  Yuan, R., Bhattacharya, N., Kenkel, J. A., Shen, J., DiMaio, M. A., Bagchi, S., Prestwood, T. R., Habtezion, A., Engleman, E. G.
  2020; 10: 595892

- **Tumor-binding antibodies induce potent dendritic cell-mediated tumor immunity.** *Oncoimmunology*
  Carmi, Y., Prestwood, T., Engleman, E. G.
  2019; 8 (10): e1078063

- **A distinct subset of plasmacytoid dendritic cells induces activation and differentiation of B and T lymphocytes.** *Proceedings of the National Academy of Sciences of the United States of America*
  Zhang, H., Gregorio, J. D., Iwahori, T., Zhang, X., Choi, O., Tolentino, L. L., Prestwood, T., Carmi, Y., Engleman, E. G.
  2017; 114 (8): 1988-1993

- **Systemic Immunity Is Required for Effective Cancer Immunotherapy.** *Cell*
  Spitzer, M. H., Carmi, Y., Reticker-Flynn, N. E., Kwek, S. S., Madhireddy, D., Martins, M. M., Gherardini, P. F., Prestwood, T. R., Chabon, J., Bendall, S. C., Fong, L., Nolan, G. P., Engleman, et al
  2017; 168 (3): 487-502 e15

- **Akt and SHP-1 are DC-intrinsic checkpoints for tumor immunity.** *JCI insight*
  Carmi, Y., Prestwood, T. R., Spitzer, M. H., Linde, I. L., Chabon, J., Reticker-Flynn, N. E., Bhattacharya, N., Zhang, H., Zhang, X., Basto, P. A., Burt, B. M., Alonso, M. N., Engleman, et al
  2016; 1 (18)

- **Restoring Retinoic Acid Attenuates Intestinal Inflammation and Tumorigenesis in APCMin/+ Mice.** *Cancer immunology research*
  Penny, H. L., Prestwood, T. R., Bhattacharya, N., Sun, F., Kenkel, J. A., Davidson, M. G., Shen, L., Zuniga, L. A., Seeley, E. S., Pai, R., Choi, O., Tolentino, L., Wang, et al
  2016; 4 (11): 917-926

- **Normalizing Microbiota-Induced Retinoic Acid Deficiency Stimulates Protective CD8(+) T Cell-Mediated Immunity in Colorectal Cancer.** *Immunity*
  Bhattacharya, N., Yuan, R., Prestwood, T. R., Penny, H. L., DiMaio, M. A., Reticker-Flynn, N. E., Krois, C. R., Kenkel, J. A., Pham, T. D., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
  2016; 45 (3): 641-655

- **Akt and SHP-1 are DC-intrinsic checkpoints for tumor immunity.** *JCI insight*

Carmi, Y. n., Prestwood, T. R., Spitzer, M. H., Linde, I. L., Chabon, J. n., Reticker-Flynn, N. E., Bhattacharya, N. n., Zhang, H. n., Zhang, X. n., Basto, P. A., Burt, B. M., Alonso, M. N., Engleman, et al
2016; 1 (18): e89020

- **Normalizing microbiota-induced retinoic acid deficiency stimulates protective CD8+ T-cell-mediated immunity in colorectal cancer** *Immunity*
  Bhattacharya, N., Yuan, R., Prestwood, T., Penny, H., DiMaio, M., Reticker-Flynn, N., Krois, C., Kenkel, J., Pham, T., Carmi, Y., Tolentino, L., Choi, O., Hulett, et al
  2016; 45: 641–55

- **Design of Protease Activated Optical Contrast Agents That Exploit a Latent Lysosomotropic Effect for Use in Fluorescence-Guided Surgery.** *ACS chemical biology*
  Ofori, L. O., Withana, N. P., Prestwood, T. R., Verdoes, M., Brady, J. J., Winslow, M. M., Sorger, J., Bogyo, M.
  2015; 10 (9): 1977-1988

- **Allogeneic IgG combined with dendritic cell stimuli induce antitumour T-cell immunity.** *Nature*
  Carmi, Y., Spitzer, M. H., Linde, I. L., Burt, B. M., Prestwood, T. R., Perlman, N., Davidson, M. G., Kenkel, J. A., Segal, E., Pusapati, G. V., Bhattacharya, N., Engleman, E. G.
  2015; 521 (7550): 99-104

- **Detection of intestinal cancer by local, topical application of a quenched fluorescence probe for cysteine cathepsins.** *Chemistry & biology*
  Segal, E., Prestwood, T. R., van der Linden, W. A., Carmi, Y., Bhattacharya, N., Withana, N., Verdoes, M., Habtezion, A., Engleman, E. G., Bogyo, M.
  2015; 22 (1): 148-158

- **Gamma Interferon (IFN-gamma) Receptor Restricts Systemic Dengue Virus Replication and Prevents Paralysis in IFN-alpha/beta Receptor-Deficient Mice** *JOURNAL OF VIROLOGY*
  Prestwood, T. R., Morar, M. M., Zellweger, R. M., Miller, R., May, M. M., Yauch, L. E., Lada, S. M., Shresta, S.
  2012; 86 (23): 12561-12570

- **Trafficking and Replication Patterns Reveal Splenic Macrophages as Major Targets of Dengue Virus in Mice** *JOURNAL OF VIROLOGY*
  Prestwood, T. R., May, M. M., Plummer, E. M., Morar, M. M., Yauch, L. E., Shresta, S.
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- **CD4(+) T Cells Are Not Required for the Induction of Dengue Virus-Specific CD8(+) T Cell or Antibody Responses but Contribute to Protection after Vaccination** *JOURNAL OF IMMUNOLOGY*
  Yauch, L. E., Prestwood, T. R., May, M. M., Morar, M. M., Zellweger, R. M., Peters, B., Sette, A., Shresta, S.
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- **Enhanced Infection of Liver Sinusoidal Endothelial Cells in a Mouse Model of Antibody-Induced Severe Dengue Disease** *CELL HOST & MICROBE*
  Zellweger, R. M., Prestwood, T. R., Shresta, S.
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- **Cardif-Mediated Signaling Controls the Initial Innate Response to Dengue Virus In Vivo** *JOURNAL OF VIROLOGY*
  Perry, S. T., Prestwood, T. R., Lada, S. M., Benedict, C. A., Shresta, S.
  2009; 83 (16): 8276-8281

- **A Protective Role for Dengue Virus-Specific CD8(+) T Cells** *JOURNAL OF IMMUNOLOGY*
  Yauch, L. E., Zellweger, R. M., Kotturi, M. F., Qutubuddin, A., Sidney, J., Peters, B., Prestwood, T. R., Sette, A., Shresta, S.
  2009; 182 (8): 4865-4873

- **A mouse-passaged dengue virus strain with reduced affinity for heparan sulfate causes severe disease in mice by establishing increased systemic viral loads** *JOURNAL OF VIROLOGY*
  Prestwood, T. R., Prigozhin, D. M., Sharar, K. L., Zellweger, R. M., Shresta, S.
  2008; 82 (17): 8411-8421