Stanford



# Jonathan Maltzman

Associate Professor of Medicine (Nephrology)

Medicine - Nephrology

NIH Biosketch available Online

## Bio

### ACADEMIC APPOINTMENTS

- Associate Professor, Medicine - Nephrology
- Member, Cardiovascular Institute
- Member, Maternal & Child Health Research Institute (MCHRI)

### ADMINISTRATIVE APPOINTMENTS

- Nephrology Representative, Team Science, (2022-2025)
- Director of Basic Research, Division of Nephrology, (2015- present)

### BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Federation of Clinical Immunology Societies, Board of Directors (2017 - present)
- Federation of Clinical Immunology Societies, Secretary / Treasurer (2017 - 2023)
- American Society of Transplantation, Board of Directors (2018 - 2021)
- American Society of Transplantation, Treasurer (2024 - present)

### PROFESSIONAL EDUCATION

- BS, MIT , Biology (1989)
- PhD, University of Pennsylvania School of Medicine , Immunology (1997)
- MD, University of Pennsylvania School of Medicine , Medicine (1997)
- Internship/Residency, University of Chicago Hospitals , Internal Medicine (2000)
- Fellowship, University of Pennsylvania School of Medicine , Nephrology (2003)

## Teaching

### COURSES

**2026-27**

- Translational Immunology: IMMUNOL 209 (Win, Spr)

**2025-26**

- Translational Immunology: IMMUNOL 209 (Win, Spr)

**2024-25**

- Translational Immunology: IMMUNOL 209 (Win, Spr)

**2023-24**

- Translational Immunology: IMMUNOL 209 (Win, Spr)

### STANFORD ADVISEES

**Doctoral Dissertation Reader (AC)**

Jessica Diarra, Maigane Diop, Norma Gutierrez, Audre May, Colin Raposo, Pat Yan

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (PhD Program)
- Nephrology (Fellowship Program)

## Publications

### PUBLICATIONS

- **Pairing up to decode recognition.** *Science immunology*
  Maltzman, J. S.
  2026; 11 (124): eaem6135
- **United for Change: Navigating the New National Institutes of Health United Funding Strategy.** *Transplantation*
  Chong, A. S., Alegre, M. L., Maltzman, J. S.
  2026
- **FOXP-stabilization of the Il2ra super-enhancer structure augments Treg fitness.** *bioRxiv : the preprint server for biology*
  Dong, D., Higdon, L. E., Zhou, J., Lin, J. X., Padiapu, J., Kim, Y., Leonard, W. J., Maltzman, J. S.
  2026
- **Pre-existing influenza antibodies, younger age, and increased CD4 TE+EM predict influenza vaccination responses in transplant recipients.** *Human immunology*
  Rollenhagen, C., Parvathinathan, G., Stedman, M. R., Chalasani, G., Birdwell, K. A., Sanders, M. L., Ramkumar, M., Higdon, L. E., Ye, N., Santos, J. J., Hensley, S. E., Maltzman, J. S.
  2026; 87 (5): 111721
- **Sugar-coated CAR T for sweeter cell therapies.** *Science immunology*
  Dong, D., Maltzman, J. S.
  2025; 10 (114): eaee1941
- **The immune microenvironment of transplant glomerulitis** *Kidney International Reports*
  Bracey, N., Maltzman, J., Long, A., Dhanasekaran, R., Shankar, V., Mohsin, A., Kambham, N., Wernig, G., Gentles, A., Davis, M., Charu, V.
  2025: 3113-3127
- **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
- **Forced Revision Can Still Inform-Lessons and Questions From the "Original" TWO Study.** *Transplantation*
  Maltzman, J. S.
  2024
- **Advancing Mouse Models for Transplantation Research.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Cravedi, P., Riella, L. V., Ford, M., Valujskikh, A., Menon, M. C., Kirk, A. D., Alegre, M. L., Feng, S., Kehn, P., Najafian, N., Hancock, W., Heeger, P. S., Maltzman, et al
  2024
- **Prior viral infection primes cross-reactive CD8+ T cells that respond to mouse heart allografts.** *Frontiers in immunology*

Khorki, M. E., Shi, T., Cianciolo, E. E., Burg, A. R., Chukwuma, P. C., Picarsic, J. L., Morrice, M. K., Woodle, E. S., Maltzman, J. S., Ferguson, A., Katz, J. D., Baker, B. M., Hildeman, et al
2023; 14: 1287546

- **The Effects of Aging on Solid Organ Transplantation-Characteristics and Consequences of Immunosenescence** *CURRENT TRANSPLANTATION REPORTS*
  Rollenhagen, C., Maltzman, J. S.
  2023
- **TCRward personalized transplant therapies.** *Science immunology*
  Chadha, A., Maltzman, J. S.
  2023; 8 (85): eadj4910
- **Age-related decline in anti-HBV antibodies in vaccinated kidney transplant recipients.** *Transplant infectious disease : an official journal of the Transplantation Society*
  Dadhania, D. M., Cravedi, P., Blumberg, E., Stryniak, G., Montez-Rath, M. E., Maltzman, J. S.
  2023: e14090
- **Humoral and T cell Responses to SARS-CoV-2 Vaccine Booster and Anti-SARS-CoV-2 Monoclonal Antibodies in Patients With End-Stage Kidney Disease.** *Kidney international reports*
  Zaza, G., Stallone, G., Granata, S., Gentile, M., Panico, M., Bin, S., Wang, L., Rollenhagen, C., Maltzman, J. S., Cravedi, P.
  2023
- **CD8 T cells are forever.** *Science immunology*
  Maltzman, J. S.
  2023; 8 (80): eadg8279
- **CD8 T cells are forever** *SCIENCE IMMUNOLOGY*
  Maltzman, J. S.
  2023; 8 (80)
- **Endothelial Cell-Specific Molecule-1 Inhibits Albuminuria in Diabetic Mice.** *Kidney360*
  Zheng, X., Higdon, L., Gaudet, A., Shah, M., Balistieri, A., Li, C., Nadai, P., Palaniappan, L., Yang, X., Santo, B., Ginley, B., Wang, X. X., Myakala, et al
  2022; 3 (12): 2059-2076
- **Analysis of Cross-sectional and Longitudinal HLA and Anti-viral Responses After COVID Infection in Renal Allograft Recipients: Differences and Correlates.** *Transplantation*
  Girnita, A. L., Wang, L., Colovai, A. I., Ahearn, P., Azzi, Y., Menon, M. C., Fernandez-Vina, M., Gebel, H. M., Steve Woodle, E., Cravedi, P., Maltzman, J. S., Akalin, E.
  2022
- **A SPARC-ling link to inflammaging.** *Science immunology*
  Maltzman, J. S.
  2022; 7 (75): eade5698
- **Blood Transcriptomes of SARS-CoV-2-Infected Kidney Transplant Recipients Associated with Immune Insufficiency Proportionate to Severity.** *Journal of the American Society of Nephrology : JASN*
  Sun, Z., Zhang, Z., Banu, K., Azzi, Y. A., Reghuvaran, A., Fredericks, S., Planoutene, M., Hartzell, S., Kim, Y., Pell, J., Tietjen, G., Asch, W., Kulkarni, et al
  2022
- **Infection, Rejection, and the Connection.** *Transplantation*
  Higdon, L. E., Tan, J. C., Maltzman, J. S.
  2022
- **Chimeric Antigen Receptor Regulatory T Cell in Transplantation: TheFuture of Cell Therapy?** *Kidney international reports*
  Lamarche, C., Maltzman, J. S.
  2022; 7 (6): 1149-1152
- **The Tabula Sapiens: A multiple-organ, single-cell transcriptomic atlas of humans.** *Science (New York, N.Y.)*

Jones, R. C., Karkanias, J., Krasnow, M. A., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., Harper, W., Hemenez, M., Ponnusamy, R., Salehi, et al
2022; 376 (6594): eabl4896

- **Cell types of origin of the cell-free transcriptome.** *Nature biotechnology*
  Vorperian, S. K., Moufarrej, M. N., Tabula Sapiens Consortium, Quake, S. R., Jones, R. C., Karkanias, J., Krasnow, M., Pisco, A. O., Quake, S. R., Salzman, J., Yosef, N., Bulthaup, B., Brown, P., et al
  2022
- **Differences in Humoral and Cellular Vaccine Responses to SARS-CoV-2 in Kidney and Liver Transplant Recipients.** *Frontiers in immunology*
  Furian, L., Russo, F. P., Zaza, G., Burra, P., Hartzell, S., Bizzaro, D., Di Bello, M., Di Bella, C., Nuzzolese, E., Agnolon, C., Florman, S., Rana, M., Lee, et al
  2022; 13: 853682
- **CMV-Responsive CD4 T Cells Have a Stable Cytotoxic Phenotype Over the First Year Post-Transplant in Patients Without Evidence of CMV Viremia.** *Frontiers in immunology*
  Higdon, L. E., Ahmad, A. A., Schaffert, S., Margulies, K. B., Maltzman, J. S.
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- **Mitochondria-More than just ATP for CTLs.** *Science immunology*
  Maltzman, J. S.
  2021; 6 (65): eabn0249
- **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.
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- **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
- **RNA splicing programs define tissue compartments and cell types at single-cell resolution** *ELIFE*
  Olivieri, J., Dehghannasiri, R., Wang, P. L., Jang, S., de Morree, A., Tan, S. Y., Ming, J., Wu, A., Consortium, T., Quake, S. R., Krasnow, M. A., Salzman, J.
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- **SARS-CoV-2 Vaccination and Antibody Testing in Immunosuppressed Populations: You Can't Tell the Players Without a Scorecard.** *Transplantation*
  Woodle, E. S., Gebel, H. M., Montgomery, R. A., Maltzman, J. S.
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- **SARS-CoV-2 Vaccination, Immune Responses, and Antibody Testing in Immunosuppressed Populations: Tip of the Iceberg.** *Transplantation*
  Woodle, E. S., Gebel, H. M., Montgomery, R. A., Maltzman, J. S.
  2021
- **It's good to have Gremlins in the zone.** *Science immunology*
  Gustafson, C. E., Maltzman, J. S.
  2021; 6 (60)
- **Association of Premature Immune Aging and Cytomegalovirus After Solid Organ Transplant** *FRONTIERS IN IMMUNOLOGY*
  Higdon, L. E., Gustafson, C. E., Ji, X., Sahoo, M. K., Pinsky, B. A., Margulies, K. B., Maecker, H. T., Goronzy, J., Maltzman, J. S.
  2021; 12
- **Association of Premature Immune Aging and Cytomegalovirus After Solid Organ Transplant.** *Frontiers in immunology*
  Higdon, L. E., Gustafson, C. E., Ji, X., Sahoo, M. K., Pinsky, B. A., Margulies, K. B., Maecker, H. T., Goronzy, J., Maltzman, J. S.
  2021; 12: 661551
- **Transplantation and CMV promote premature aging of CD8 T cells**

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- **Immunological yin-yang after pregnancy.** *Science immunology*
  Maltzman, J. S.
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- **The ONE Study: One Small Step for Patient Care, a Giant Leap for Cell Therapy** *AMERICAN JOURNAL OF KIDNEY DISEASES*
  Lamarche, C., Maltzman, J. S.
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- **Anti-HLA and anti-SARS-CoV2 Antibodies in Kidney Transplant Recipient with COVID-19.** *Transplant international : official journal of the European Society for Organ Transplantation*
  Gandolfini, I. n., Zanelli, P. n., Palmisano, A. n., Salvetti, D. n., Parmigiani, A. n., Maltzman, J. S., Labate, C. n., Fiaccadori, E. n., Cravedi, P. n., Maggiore, U. n.
  2021
- **Delayed Kinetics of IgG, but not IgA, Anti-spike Antibodies in Transplant Recipients following SARS-CoV-2 Infection.** *J Am Soc Nephrol.*
  Cravedi, P.
  2021
- **Aging Tregs need DCAFinating.** *Science immunology*
  Dong, D., Maltzman, J. S.
  2020; 5 (52)
- **Sestrins teach old T cells new tricks.** *Science immunology*
  Maltzman, J. S.
  2020; 5 (47)
- **Development and Validation of a Multiplex, Bead-Based Assay to Detect Antibodies Directed Against SARS-CoV-2 Proteins.** *Transplantation*
  Bray, R. A., Lee, J. H., Brescia, P. n., Kumar, D. n., Nong, T. n., Shih, R. n., Woodle, E. S., Maltzman, J. S., Gebel, H. M.
  2020
- **The ONE Study: One Small Step for Patient Care, a Giant Leap for Cell Therapy.** *American journal of kidney diseases : the official journal of the National Kidney Foundation*
  Lamarche, C. n., Maltzman, J. S.
  2020
- **To debug or not to debug, a question worth asking.** *Science immunology*
  Higdon, L. E., Maltzman, J. S.
  2019; 4 (41)
- **To debug or not to debug, a question worth asking.** *Science immunology*
  Higdon, L. E., Maltzman, J. S.
  2019; 4 (41)
- **Transplantation Alters Function and Clonality of Cytomegalovirus-Responsive T Cells**
  Higdon, L. E., Schaffert, S., Saligrama, N., Davis, M. M., Khatri, P., Maltzman, J. S.
  LIPPINCOTT WILLIAMS & WILKINS.2019
- **Duel(ling) precursors in thymic Treg development.** *Science immunology*
  Maltzman, J. S.
  2019; 4 (36)
- **Single cell immune profiling in transplantation research** *AMERICAN JOURNAL OF TRANSPLANTATION*
  Higdon, L. E., Schaffert, S., Khatri, P., Maltzman, J. S.
  2019; 19 (5): 1278–87
- **Optimization of single-cell plate sorting for high throughput sequencing applications** *JOURNAL OF IMMUNOLOGICAL METHODS*
  Higdon, L. E., Cain, C. J., Colden, M. A., Maltzman, J. S.
  2019; 466: 17–23

- **Single cell immune profiling in transplantation research.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
  Higdon, L. E., Schaffert, S., Khatri, P., Maltzman, J. S.
  2019
- **Duel(ling) precursors in thymic Treg development.** *Science immunology*
  Maltzman, J. S.
  2019; 4 (36)
- **Optimization of single-cell plate sorting for high throughput sequencing applications.** *Journal of immunological methods*
  Higdon, L. E., Cain, C. J., Colden, M. A., Maltzman, J. S.
  2018
- **Inflammatory macrophage-associated 3-gene signature predicts subclinical allograft injury and graft survival.** *JCI insight*
  Azad, T. D., Donato, M. n., Heylen, L. n., Liu, A. B., Shen-Orr, S. S., Sweeney, T. E., Maltzman, J. S., Naesens, M. n., Khatri, P. n.
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- **The outstanding questions in transplantation: It's about time...** *AMERICAN JOURNAL OF TRANSPLANTATION*
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- **Expanding the Toolkit for the Study of Allospecific B and T Cell Responses** *TRANSPLANTATION*
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  Higdon, L. E., Trofe-Clark, J., Liu, S., Margulies, K. B., Sahoo, M. K., Blumberg, E., Pinsky, B. A., Maltzman, J. S.
  2017
- **Virtual Global Transplant Laboratory Standard Operating Procedures for Blood Collection, PBMC Isolation, and Storage.** *Transplantation direct*
  Higdon, L. E., Lee, K., Tang, Q., Maltzman, J. S.
  2016; 2 (9)
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  Schmidt, A. M., Lu, W., Sindhava, V. J., Huang, Y., Burkhardt, J. K., Yang, E., Riese, M. J., Maltzman, J. S., Jordan, M. S., Kambayashi, T.
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- **T-Cell Costimulatory Blockade in Organ Transplantation** *COLD SPRING HARBOR PERSPECTIVES IN MEDICINE*
  Maltzman, J. S., Turka, L. A.
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- **An obligate cell-intrinsic function for CD28 in Tregs** *JOURNAL OF CLINICAL INVESTIGATION*
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  2013; 123 (2): 580-593
- **Homeostatic Division Is Not Necessary for Antigen-Specific CD4(+) Memory T Cell Persistence** *JOURNAL OF IMMUNOLOGY*
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- **Cutting Edge: IL-2 Signals Determine the Degree of TCR Signaling Necessary To Support Regulatory T Cell Proliferation In Vivo** *JOURNAL OF IMMUNOLOGY*
  Zou, T., Satake, A., Corbo-Rodgers, E., Schmidt, A. M., Farrar, M. A., Maltzman, J. S., Kambayashi, T.
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- **Site-specific accumulation of recently activated CD4+Foxp3+ regulatory T cells following adoptive transfer** *EUROPEAN JOURNAL OF IMMUNOLOGY*
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- **Oral ivermectin as an unexpected initiator of CreT2-mediated deletion in T cells** *NATURE IMMUNOLOGY*
  Corbo-Rodgers, E., Staub, E. S., Zou, T., Smith, A., Kambayashi, T., Maltzman, J. S.
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- **Probucol ameliorates renal and metabolic sequelae of primary CoQ deficiency in Pdss2 mutant mice** *EMBO MOLECULAR MEDICINE*
  Falk, M. J., Polyak, E., Zhang, Z., Peng, M., King, R., Maltzman, J. S., Okwuego, E., Horyn, O., Nakamaru-Ogiso, E., Ostrovsky, J., Xie, L. X., Chen, J. Y., Marbois, et al
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- **Conditional deletion of SLP-76 in mature T cells abrogates peripheral immune responses** *EUROPEAN JOURNAL OF IMMUNOLOGY*
  Wu, G. F., Corbo, E., Schmidt, M., Smith-Garvin, J. E., Riese, M. J., Jordan, M. S., Laufer, T. M., Brown, E. J., Maltzman, J. S.
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- **Antiviral memory CD8 T-cell differentiation, maintenance, and secondary expansion occur independently of MyD88** *BLOOD*
  Rahman, A. H., Zhang, R., Blosser, C. D., Hou, B., DeFranco, A. L., Maltzman, J. S., Wherry, E. J., Turka, L. A.
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- **Loss of tonic T-cell receptor signals alters the generation but not the persistence of CD8(+) memory T cells** *BLOOD*
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- **Ablation of SLP-76 signaling after T cell priming generates memory CD4 T cells impaired in steady-state and cytokine-driven homeostasis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
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- **Conditional gene expression: A new tool for the transplantologist** *AMERICAN JOURNAL OF TRANSPLANTATION*
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  Maltzman, J. S., Carman, J. A., Monroe, J. G.
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- **Transcriptional regulation of the Icam-1 gene in antigen receptor- and phorbol ester-stimulated B lymphocytes: Role for transcription factor EGR1** *JOURNAL OF EXPERIMENTAL MEDICINE*

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- **POSITIVE SELECTION DETERMINES T-CELL RECEPTOR V-BETA-14 GENE USAGE BY CD8+ T-CELLS** *JOURNAL OF EXPERIMENTAL MEDICINE*
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