



## Melody Smith, MD, MS

Assistant Professor of Medicine (Blood and Marrow Transplantation and Cellular Therapy)

Medicine - Blood & Marrow Transplantation

### CLINICAL OFFICE (PRIMARY)

- **BMT Division**

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### Bio

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#### BIO

Dr. Smith is a board-certified, fellowship-trained medical oncologist and hematologist. She is an assistant professor in the Department of Medicine, Division of Blood & Marrow Transplantation and Cellular Therapy.

She is a physician-scientist who conducts extensive research. She completed a fellowship at the National Institutes of Health (NIH) in the Clinical Research Training (now, the Medical Research Scholars) Program and she was a post-doctoral researcher at Memorial Sloan Kettering Cancer Center. Her research focuses on studies evaluating strategies whereby donor T cells can be administered to improve outcomes following blood and marrow transplant. Specifically, she studies novel treatment strategies using chimeric antigen receptor (CAR) T cell therapy.

Dr. Smith has been invited to present the findings of her research at regional, national, and international conferences. At the Insights in Hematology Conference, she focused on the use of CAR T cells for blood cancers, whereas she presented her investigations on the associations between CAR T cells and the intestinal microbiome at the European Society for Blood and Marrow Transplantation. Further, at the annual meeting of the American Society of Gene & Cell Therapy, she addressed the importance of training scientists from underrepresented populations.

Dr. Smith has co-authored articles on topics within the field of cancer immunology, including cancer immunotherapy, stem cell transplantation, and CAR T cell therapy. Her work has appeared in journals, including *Biology of Blood and Marrow Transplantation*, *Blood Advances*, *Leukemia*, *Nature*, *Nature Immunology*, *Nature Medicine*, and elsewhere.

She serves as a peer reviewer for publications in various journals, such as *Biology of Blood and Marrow Transplantation*, *Haematologica*, and *ImmunoMedicine*. She also has co-written chapters in books, including *Pocket Oncology*, *Current Concepts and Controversies in Hematopoietic Cell Transplantation*, and *Advanced Concepts in Human Immunology: Prospects for Disease Control*.

Dr. Smith has also earned numerous honors. The American Society of Hematology, Society for Immunotherapy of Cancer, European Society for Blood and Marrow Transplantation, and many other professional societies and organizations have recognized her achievements as a clinician, researcher, and scholar.

She is a member of the American Society of Hematology (ASH) Subcommittee on Immunotherapy and the co-chair of the Committee on Trainees and Junior Faculty for the American Society of Transplantation and Cellular Therapy (ASTCT). Other positions in service to professional organizations include co-chairing committees and task forces dedicated to promoting diversity among hematology and cell therapy specialists.

## **CLINICAL FOCUS**

- Hematology

## **ACADEMIC APPOINTMENTS**

- Assistant Professor - University Medical Line, Medicine - Blood & Marrow Transplantation
- Member, Bio-X
- Member, Stanford Cancer Institute

## **ADMINISTRATIVE APPOINTMENTS**

- Assistant Professor, Division of Blood & Marrow Transplantation and Cellular Therapy, Stanford University School of Medicine, (2021- present)

## **HONORS AND AWARDS**

- Women in Cancer Immunotherapy Network (WIN) Leadership Institute, Society for Immunotherapy of Cancer (SITC)
- Best Basic Science Abstract, European Society for Blood and Marrow Transplantation
- Mechanistic Insights to Improve Clinical Benefit, Early Career Investigator Travel Award, Keystone Symposium on Cancer Immunotherapy
- SITC Travel Award, 3rd Forum on Immunotherapy & Translational Immunology of Cancer
- Abstract Achievement Award, American Society of Hematology (ASH)
- Loan Repayment Award, National Institutes of Health (NIH)
- ASH Translational Research Training in Hematology, European Hematology Association
- Clinical Research Training Course, American Society for Blood and Marrow Transplantation (ASBMT)
- Minority Faculty Leadership Development, Awarded Competitive Admission to American Association of Medical Colleges (AAMC)
- 2nd Annual Mentoring Program for SCT Fellows, Future of Stem Cell Transplantation
- Resident Travel Award for Underrepresented Populations, Conquer Cancer Foundation of American Society of Clinical Oncology
- ASH Minority Medical Student Award, American Society of Hematology (ASH)

## **PROFESSIONAL EDUCATION**

- Board Certification, American Board of Internal Medicine , Medical Oncology
- Board Certification, American Board of Internal Medicine , Hematology
- Board Certification, American Board of Internal Medicine , Internal Medicine
- Fellowship, Memorial Sloan Kettering Cancer Center , Medical Oncology and Hematology
- Residency, University of Texas Southwestern Medical School , Internal Medicine
- Internship, University of Texas Southwestern Medical School , Internal Medicine
- Medical Education, University of Texas Southwestern Medical School

## Research & Scholarship

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### CLINICAL TRIALS

- CD19/CD22 Chimeric Antigen Receptor (CAR) T Cells With or Without NKTR-255 in Adults With Recurrent or Refractory B Cell Malignancies, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Zhenyu Dai, Jiayi Xie

## Publications

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### PUBLICATIONS

- **Burnout in U.S. hematologists and oncologists: impact of compensation models and advanced practice provider support.** *Blood advances*  
Lee, A. I., Masselink, L. E., De Castro, L. M., Marshall, A. L., Connell, N. T., Dent, G. A., Fritz, J., Homer, M. R., Lucas, T. L., Naik, R. P., Nelson, M., O'Connell, C. L., Rajasekhar, et al  
2022
- **Gut microbiome correlates of response and toxicity following anti-CD19 CAR T cell therapy.** *Nature medicine*  
Smith, M., Dai, A., Ghilardi, G., Amelsberg, K. V., Devlin, S. M., Pajarillo, R., Slingerland, J. B., Beghi, S., Herrera, P. S., Giardina, P., Clurman, A., Dwomoh, E., Armijo, et al  
2022
- **Custom CARs: Leveraging the Adaptability of Allogeneic CAR Therapies to Address Current Challenges in Relapsed/Refractory DLBCL.** *Frontiers in immunology*  
Jeyakumar, N., Smith, M.  
2022; 13: 887866
- **The Composition of the Intestinal Microbiota Correlates with Response and Toxicity after CAR T cell Immunotherapy in Patients with B-cell Malignancies**  
Smith, M.  
Nature Medicine .  
2021
- **A Question of Beneficence: Comorbidity Assessment to Ascertain Potential Benefit of CD19 Chimeric Antigen Receptor T Cells for Patients with Diffuse Large B Cell Lymphoma** *TRANSPLANTATION AND CELLULAR THERAPY*  
Smith, M.  
2021; 27 (1): 2-3
- **Relapse after allogeneic stem cell transplantation of acute myeloid leukemia and myelodysplastic syndrome and importance of second cellular therapy.**  
Smith, M.  
Transplantation and Cellular Therapy.  
2021
- **Alloreactive T cells deficient of the short-chain fatty acid receptor GPR109a induce less graft-versus-host disease**  
Smith, M.  
Blood.  
2021
- **The gut microbiota is associated with immune cell dynamics in humans** *NATURE*  
Schluter, J., Peled, J. U., Taylor, B. P., Markey, K. A., Smith, M., Taur, Y., Niehus, R., Staffas, A., Dai, A., Fontana, E., Amoretti, L. A., Wright, R. J., Morjaria, et al  
2020; 588 (7837): 303-307
- **Hematopoietic recovery in patients receiving chimeric antigen receptor T-cell therapy for hematologic malignancies** *BLOOD ADVANCES*

- Jain, T., Knezevic, A., Pennisi, M., Chen, Y., Ruiz, J. D., Purdon, T. J., Devlin, S. M., Smith, M., Shah, G. L., Halton, E., Diamonte, C., Scordo, M., Sauter, et al  
2020; 4 (15): 3776-3787
- **Impaired mitochondrial oxidative phosphorylation limits the self-renewal of T cells exposed to persistent antigen.** *Nature immunology*  
Vardhana, S. A., Hwee, M. A., Berisa, M., Wells, D. K., Yost, K. E., King, B., Smith, M., Herrera, P. S., Chang, H. Y., Satpathy, A. T., van den Brink, M. R., Cross, J. R., Thompson, et al  
2020
  - **Associations between hematology/oncology fellows' training and mentorship experiences and hematology-only career plans** *BLOOD ADVANCES*  
Masselink, L. E., Erikson, C. E., Connell, N. T., De Castro, L. M., Dent, G. A., Marshall, A. L., Naik, R. P., Nelson, M., O'Connell, C. L., Rajasekhar, A., Sharma, D., Smith, M., Lee, et al  
2019; 3 (21): 3278-3286
  - **Standard Antithymocyte Globulin Dosing Results in Poorer Outcomes in Overexposed Patients after Ex Vivo CD34(+) Selected Allogeneic Hematopoietic Cell Transplantation** *BIOLOGY OF BLOOD AND MARROW TRANSPLANTATION*  
Scordo, M., Bhatt, V., Hilden, P., Smith, M., Thoren, K., Cho, C., Shah, G. L., Maloy, M. A., Papadopoulos, E. B., Jakubowski, A. A., Avecilla, S. T., O'Reilly, R. J., Castro-Malaspina, et al  
2019; 25 (8): 1526-1535
  - **Posttransplant chimeric antigen receptor therapy** *BLOOD*  
Smith, M., Zakrzewski, J., James, S., Sadelain, M.  
2018; 131 (10): 1045-1052
  - **Allogeneic Hematopoietic Cell Transplantation for Adult T Cell Acute Lymphoblastic Leukemia.** *Biology of blood and marrow transplantation*  
Hamilton, B. K., Rybicki, L., Abounader, D., Adekola, K., Advani, A., Aldoss, I., Bachanova, V., Bashey, A., Brown, S., DeLima, M., Devine, S., Flowers, C. R., Ganguly, et al  
2017
  - **Donor CD19 CART cells exert potent graft-versus-lymphoma activity with diminished graft-versus-host activity** *NATURE MEDICINE*  
Ghosh, A., Smith, M., James, S. E., Davila, M. L., Velardi, E., Argyropoulos, K. V., Gunset, G., Perna, F., Kreines, F. M., Levy, E. R., Lieberman, S., Jay, H. V., Tuckett, et al  
2017; 23 (2): 242-249
  - **Long-term event-free and overall survival after risk-adapted melphalan and SCT for systemic light chain amyloidosis** *LEUKEMIA*  
Landau, H., Smith, M., Landry, C., Chou, J. F., Devlin, S. M., Hassoun, H., Bello, C., Giral, S., Comenzo, R. L.  
2017; 31 (1): 136-142
  - **Tumor immunology and cancer immunotherapy: summary of the 2014 SITC primer** *JOURNAL FOR IMMUNOTHERAPY OF CANCER*  
Page, D. B., Bourla, A., Daniyan, A., Naidoo, J., Smith, E., Smith, M., Friedman, C., Khalil, D. N., Funt, S., Shoushtari, A. N., Overwijk, W. W., Sharma, P., Callahan, et al  
2015; 3
  - **Racial Differences in the Presentation and Outcomes of Chronic Lymphocytic Leukemia and Variants in the United States** *CLINICAL LYMPHOMA MYELOMA & LEUKEMIA*  
Shenoy, P. J., Malik, N., Sinha, R., Nooka, A., Nastoupil, L. J., Smith, M., Flowers, C. R.  
2011; 11 (6): 498-506
  - **Both naive and memory T cells exert alloreactivity across HLA barriers**  
Smith, M.  
Biology of Blood and Marrow Transplantation.  
2011
  - **Clinical, Molecular, and Environmental Risk Factors for Hodgkin Lymphoma**  
Smith, M.  
Advances in Hematology.  
2011