

Stanford



Judith Shizuru

Professor of Medicine (Blood and Marrow Transplantation and Cellular Therapy)
Medicine - Blood & Marrow Transplantation

CLINICAL OFFICE (PRIMARY)

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ACADEMIC CONTACT INFORMATION

• Alternate Contact

Janice Smith - Administrative Associate
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Bio

BIO

I am a member of the Stanford Blood and Marrow Transplantation (BMT) faculty, the Stanford Immunology Program and the Institute of Stem Cell Biology and Regenerative Medicine. I have attended on the BMT clinical service since 1997, and I oversee a research laboratory. My current clinical efforts and basic research focus on improving the safety and efficacy of hematopoietic cell transplantation (HCT) which is the most widely practiced and powerful form of cellular therapy. To achieve this goal we address two fundamental issues of HCT – the preparation of the recipient to accept a transplanted hematopoietic graft, and the impact of the graft cellular content on the success of the therapy. We have applied our expertise to develop novel ways to achieve engraftment of blood forming stem cells with the goal to replace chemotherapy and radiation. We have also developed the tools and methods that will allow us to transplant grafts of pure blood forming stem cells with the goal to eliminate potentially harmful passenger cells contained in a blood stem cell graft.

CLINICAL FOCUS

- Cancer > Blood and Marrow Transplant
- Blood and Marrow Transplantation
- Hematology

ACADEMIC APPOINTMENTS

- Professor, Medicine - Blood & Marrow Transplantation
- Member, Bio-X
- Member, Cardiovascular Institute
- Member, Institute for Stem Cell Biology and Regenerative Medicine
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Member, Stanford Diabetes Research Center, (2018- present)

HONORS AND AWARDS

- Postdoctoral Fellowship, Juvenile Diabetes Foundation (1986-1988)

- Postdoctoral Fellowship, Juvenile Diabetes Foundation (1989-1991)
- Postdoctoral Fellowship, Juvenile Diabetes Foundation (1991-1993)
- Excellence in Research in the Field of Hematopoiesis, Cheryl Whitlock Award (1996)
- Career Award in the Biomedical Sciences, Burroughs Wellcome Fund (1996-2000)
- Junior Faculty Scholars Award, Howard Hughes Medical Institute (1996-2000)
- Scholar Award, Amy Strelzer Manasevit (2001)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, Scientific Advisory Board, Shoreline Biosciences (2021 - present)
- Director, rBIO (2020 - present)
- Chair, Scientific Advisory Board, Jasper Therapeutics, Inc (2019 - present)
- Director, Jasper Therapeutics, Inc (2018 - present)

PROFESSIONAL EDUCATION

- Board Certification: Internal Medicine, American Board of Internal Medicine (2022)
- Residency: UCSF Department of Medicine (1994) CA
- Fellowship: Stanford University Medical Center (1997) CA
- Medical Education: Stanford University School of Medicine (1992) CA

LINKS

- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

The research interests are to understand the cellular and molecular basis of resistance to engraftment of transplanted allogeneic bone marrow (BM) cells and to understand the way in which BM grafts modify immune responses. This research complements our interest in clinical BM transplantation and aspects of these studies are aimed at solving some of the major problems of BM transplantation which include graft-vs-host disease and BM engraftment failure. Conventional BM transplantation involves the transfer of heterogeneous populations of cells composed of rare hematopoietic stem cells (HSCs) and differentiated blood cell types. To study these issues our approach has been to transplant phenotypically purified cells under defined conditions. The specific projects in my laboratory include:

- 1) Identification of the cells and molecules responsible for resistance to engraftment of purified allogeneic HSCs. We and others have shown that cells with NK determinants constitute a significant barrier to allogeneic HSC engraftment, and that transplanted whole BM contains a population that facilitates engraftment. In these experiments our approach to identify the cell population(s) and mechanism by which HSC engraftment is resisted is to use recipient mice from strains that lack defined immune functions. We are studying the cells in BM and spleen that are bound and/or depleted by a-ASGMI, and in this way identify the candidate barrier populations.
- 2) Use of transplants of purified HSCs to induce tolerance to allo- and autoantigens, and study of the mechanisms by which such tolerance is induced. We continue to develop preclinical models for organ tolerance induction and treatment of autoimmune disease by using cell specific therapy. One goal is to decrease the morbidity of the recipient preparative regimen and to determine the lowest level of chimerism needed to induce immune tolerance. We propose to test donor/host strain combinations most relevant to human disease, including minor mismatched and haploidentical grafts.

3) Identification of the cells and molecules that confer graft vs leukemia/lymphoma (GVL) effects. We have developed a model of B cell lymphoma relapse after HSC transplant. To date our studies show that while purified allogeneic HSCs have no GVL activity, a population of BM cells that express CD3 and CD8 have significant GVL activity, and do not cause GVHD at the cell doses administered.

CLINICAL TRIALS

- CIBMTR Research Database, Recruiting
- Evaluate Safety of Axicabtagene Ciloleucel Reinfusion (Axi-Cel-2) in Patients With Relapsed and/or Refractory Second Line High-Risk Non-Hodgkin Lymphoma After Standard of Care Axi-Cel, Recruiting
- Inducing Graft Tolerance in HLA Haplotype Matched Related and 3 Ag Matched Unrelated Living Donor Kidney Transplantation, Recruiting
- Safety of Myeloablative Conditioning, Orca-T, and Allogeneic, Donor-Derived CD19/CD22-CAR (Chimeric Antigen Receptor) T Cells in Adults With B-cell Acute Lymphoblastic Leukemia (ALL), Recruiting
- 90Y-IBRITUMOMAB Tiuxetan and AHCI With HD Chemotherapy and Autologous Transplantation for Relapsed or Resistant NHL, Not Recruiting
- A Phase 2 Trial of Rituximab and Corticosteroid Therapy for Newly Diagnosed Chronic Graft Versus Host Disease, Not Recruiting
- A Phase 3 Study of Brentuximab Vedotin (SGN-35) in Patients at High Risk of Residual Hodgkin Lymphoma Following Stem Cell Transplant (The AETHERA Trial), Not Recruiting
- A Pilot Study of Imatinib Mesylate in Steroid Refractory Chronic Graft Versus Host Disease, Not Recruiting
- A Study of Ruxolitinib in Combination With Corticosteroids for the Treatment of Steroid-Refractory Acute Graft-Versus-Host Disease (REACH-1), Not Recruiting
- A Trial of the FMS-like Tyrosine Kinase 3 (FLT3) Inhibitor Gilteritinib Administered as Maintenance Therapy Following Allogeneic Transplant for Patients With FLT3/Internal Tandem Duplication (ITD) Acute Myeloid Leukemia (AML), Not Recruiting
- Acute Graft-versus-Host Disease Treatment (BMT CTN 0802), Not Recruiting
- Allo vs Hypomethylating/Best Supportive Care in MDS (BMTCTN1102), Not Recruiting
- Allogeneic Blood Stem Cell Transplantation for Patients With Life-Threatening Systemic Lupus Erythematosus, Not Recruiting
- Allogeneic HCT Using Nonmyeloablative Host Conditioning With TLI & ATG vs SOC in AML, Not Recruiting
- Allogeneic Transplantation for Patients With Acute Leukemia or Chronic Myelogenous Leukemia (CML), Not Recruiting
- Allogeneic Transplantation Using Total Lymphoid Irradiation (TLI) and Anti-Thymocyte Globulin (ATG) for Older Patients With Hematologic Malignancies, Not Recruiting
- Autologous CD22 CAR T Cells in Adults w/ Recurrent or Refractory B Cell Malignancies, Not Recruiting
- Autologous Followed by Non-myeloablative Allogeneic Transplantation for Non-Hodgkin's Lymphoma, Not Recruiting
- Axicabtagene Ciloleucel Expanded Access Study, Not Recruiting
- Bone Marrow Grafting for Leukemia and Lymphoma, Not Recruiting
- CD19/CD22 Chimeric Antigen Receptor (CAR) T Cells With or Without NKTR-255 in Adults With Recurrent or Refractory B Cell Malignancies, Not Recruiting
- CD8+ Memory T-Cells as Consolidative Therapy After Donor Non-myeloablative Hematopoietic Cell Transplant in Treating Patients With Leukemia or Lymphoma, Not Recruiting
- Chronic Graft-versus-Host Disease Treatment (BMT CTN 0801), Not Recruiting
- Combined Blood Stem Cell and Kidney Transplant of One Haplotype Match Living Donor Pairs., Not Recruiting
- Cyclosporine Eye Drops in Preventing Graft-Versus-Host Disease of the Eye in Patients Who Have Undergone Donor Stem Cell Transplant for Hematologic Cancer or Bone Marrow Failure Disorder, Not Recruiting
- Delayed Blood Stem Transplantation in HLA Matched Kidney Transplant Recipients to Eliminate Immunosuppressive Drugs., Not Recruiting
- Donor Atorvastatin Treatment for Preventing Severe Acute Graft-Versus-Host Disease in Patients Undergoing Myeloablative Peripheral Blood Stem Cell Transplantation, Not Recruiting
- Donor Regulatory T Cells in Treating Patients With Visceral Acute Graft-versus-Host Disease After Stem Cell Transplant, Not Recruiting
- Double Cord Versus Haploidentical (BMT CTN 1101), Not Recruiting
- Expanded Access Protocol for Tabelecleucel for Patients With Epstein-Barr Virus-Associated Viremia or Malignancies, Not Recruiting
- Gemcitabine and Hodgkin's Disease Chemotherapy Followed by Peripheral Blood Stem Cell Rescue for Hodgkin's Disease, Not Recruiting

- Haploid Allogeneic Transplant Using the CliniMACS System, Not Recruiting
- High Dose Chemotherapy and Allogeneic Hematopoietic Cell Transplant for Non-Hodgkin's Lymphoma, Not Recruiting
- High-Dose Sequential Therapy and Single Autologous Transplantation for Multiple Myeloma, Not Recruiting
- Ibrutinib in Combination With Corticosteroids vs Placebo in Combination With Corticosteroids in Participants With New Onset Chronic Graft Versus Host Disease (cGVHD), Not Recruiting
- Intravenous Administration of RGI-2001 in Patient Undergoing Allogeneic Hematopoietic Stem Cell Transplantation (AHSCT), Not Recruiting
- MAGE A10####T for Advanced NSCLC, Not Recruiting
- Mixed Chimera Allogeneic Transplantation From Matched Unrelated Donors For The Treatment Of Multiple Myeloma, Not Recruiting
- Nilotinib and Imatinib Mesylate After Donor Stem Cell Transplant in Treating Patients With ALL or CML, Not Recruiting
- Novel Approaches for Graft-versus-Host Disease Prevention Compared to Contemporary Controls (BMT CTN 1203), Not Recruiting
- Obinutuzumab in cGVHD After Allogeneic Peripheral Blood Stem Cell Transplantation, Not Recruiting
- Peripheral Blood Stem Cell Transplant vs Bone Marrow Transplant in Individuals With Hematologic Cancers (BMT CTN 0201), Not Recruiting
- Ph II of Non-myeloablative Allogeneic Transplantation Using TLI & ATG In Patients w/ Cutaneous T Cell Lymphoma, Not Recruiting
- Phase 1 Infused Donor T Regulatory Cells in Steroid Dependent/Refractory Chronic GVHD, Not Recruiting
- Phase 1-2 MAHCT w/ TCell Depleted Graft w/ Simultaneous Infusion Conventional and Regulatory T Cell, Not Recruiting
- Phase 2 Poor Risk DLBCL of TLI and ATG Followed by Matched Allogeneic HT as Consolidation to Autologous HCT, Not Recruiting
- Phase 2 Study of Autologous Followed by Nonmyeloablative Allogeneic Transplantation Using TLI & ATG, Not Recruiting
- Phase 2 Trial of Prophylactic Rituximab Therapy for Prevention of CGVHD, Not Recruiting
- Post T-plant Infusion of Allogeneic Cytokine Induced Killer (CIK) Cells as Consolidative Therapy in Myelodysplastic Syndromes/Myeloproliferative Disorders, Not Recruiting
- Post-transplant Autologous Cytokine-induced Killer (CIK) Cells for Treatment of High Risk Hematologic Malignancies, Not Recruiting
- Prophylactic Use of Maribavir for the Prevention of Cytomegalovirus (CMV) Disease in Stem Cell Transplant Recipients, Not Recruiting
- Sirolimus & Mycophenolate Mofetil as GvHD Prophylaxis in Myeloablative, Matched Related Donor HCT, Not Recruiting
- Sirolimus & Mycophenolate Mofetil as GVHD Prophylaxis in Myeloablative, Matched Related Donor HCT, Not Recruiting
- Sirolimus as Treatment of Steroid-Refractory or Steroid-Dependent Chronic Graft-Versus-Host Disease, Not Recruiting
- Sirolimus/Tacrolimus Versus Tacrolimus/Methotrexate for Preventing Graft-Versus-Host Disease (GVHD) (BMT CTN 0402), Not Recruiting
- Stem Cell Transplant From Matched Unrelated or Partially Matched Related Donors, Not Recruiting
- Stem Cell Transplant With Lenalidomide Maintenance in Patients With Multiple Myeloma (BMT CTN 0702), Not Recruiting
- Study of Safety and Efficacy of KTE-C19 in Combination With Atezolizumab in Adults With Refractory Diffuse Large B-Cell Lymphoma (DLBCL), Not Recruiting
- Tabelecleucel in Combination With Pembrolizumab in Subjects With Epstein-Barr Virus-associated Nasopharyngeal Carcinoma (EBV+ NPC), Not Recruiting
- Targeted Therapy of Bronchiolitis Obliterans Syndrome, Not Recruiting
- TLI & ATG for Non-Myeloablative Allogeneic Transplantation for MDS and MPD, Not Recruiting
- Transplantation for Patients With Chronic Lymphocytic Leukemia, Not Recruiting
- Trial to Evaluate Palifermin in the Reduction of Acute Graft Versus Host Disease in Patients With Hematologic Malignancies Undergoing Allogeneic Marrow/Peripheral Blood Progenitor Cell (PBPC) Transplantation, Not Recruiting
- Vaccine Therapy for Multiple Myeloma Utilizing Idiotype-Pulsed Allogeneic Dendritic Cells, Not Recruiting

Teaching

STANFORD ADVISEES

Doctoral Dissertation Advisor (AC)

Carlos Rodriguez Santiago, Brenda Velasco

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Immunology (Phd Program)
- Stem Cell Biology and Regenerative Medicine (Phd Program)

Publications

PUBLICATIONS

- **Management of post-autologous transplant relapse in patients with T-cell lymphomas.** *American journal of hematology*
Veilleux, O., Socola, F., Arai, S., Frank, M. J., Johnston, L., Lowsky, R., Shizuru, J., Meyer, E., Muffly, L., Rezvani, A. R., Shiraz, P., Sidana, S., Dahiya, et al
2024
- **CAR19 monitoring by peripheral blood immunophenotyping reveals histology-specific expansion and toxicity.** *Blood advances*
Hamilton, M. P., Craig, E., Gentile Sanchez, C., Mina, A., Tamaresis, J., Kirmani, N., Ehlinger, Z., Syal, S., Good, Z., Sworder, B., Schroers-Martin, J., Lu, Y., Muffly, et al
2024
- **Single Center Randomized Trial of T-reg graft alone versus T-reg graft Plus Tacrolimus for the Prevention of Acute GVHD.** *Blood advances*
Bader, C. S., Pavlova, A., Lowsky, R., Muffly, L., Shiraz, P., Arai, S., Johnston, L. J., Rezvani, A. R., Weng, W. K., Miklos, D. B., Frank, M. J., Tamaresis, J. S., Agrawal, et al
2023
- **CAR19 Therapy Drives Expansion of Clonal Hematopoiesis and Associated Cytopenias**
Hamilton, M. P., Sworder, B. J., Alig, S. K., Good, Z., Boegeholz, J., Schroers-Martin, J., Tamaresis, J., Esfahani, M., Lu, Y., Olsen, M., Liu, C., Ehlinger, Z., Desai, et al
AMER SOC HEMATOLOGY.2023
- **Final Results from Phase 1 Study of Briquilimab, an Anti-CD117 Monoclonal Antibody, in Combination with Low Dose Irradiation and Fludarabine Conditioning, Shows Durable Remissions in Older Adults with Acute Myeloid Leukemia in Complete Remission and Myelodysplastic Syndrome Undergoing Allogeneic Hematopoietic Cell Transplantation**
Gandhi, A., Artz, A., Lee, C. J., Varma, A., Scott, B. L., Kwon, H., Youn, M., Yanagiba, C., Arulprakasam, J., Le, A., Shizuru, J., Pang, W. W., Muffly, et al
AMER SOC HEMATOLOGY.2023
- **Phase 1 Trial Results for Patients with Advanced Hematologic Malignancies Undergoing Reduced Intensity Allogeneic HCT with Orca-T Donor Cell Therapy Product and Single Agent Tacrolimus**
Villar-Prados, A., Meyer, E. H., Sutherland, K., Negrin, R. S., Arai, S., Frank, M. J., Johnston, L., Lowsky, R., Miklos, D. B., Muffly, L. S., Dahiya, S., Rezvani, A. R., Sidana, et al
AMER SOC HEMATOLOGY.2023
- **Targeting of CD25+Activated T Cells in Gvhd-Associated Marrow Suppression and Cytopenias**
John, T. D., Valine, L., Barbarito, G., Kwon, H., Arai, S., Martin-Kool, B., Kumari, R., Shizuru, J., Oak, J. S., Parkman, R., Bertaina, A., Weinberg, K. I.
AMER SOC HEMATOLOGY.2023
- **Radiation and Busulfan-Free Hematopoietic Stem Cell Transplantation Using Briquilimab (JSP191) Anti-CD117 Antibody-Conditioning, Transient Immunosuppression and TCR # # + T-Cell/CD19+B-Cell Depleted Haploidentical Grafts in Patients with Fanconi Anemia**
Agarwal, R., Bertaina, A., Soco, C., Saini, G., Kunte, N., Hiroshima, L., Chan, Y., Willner, H., Krampf, M. L., Nofal, R., Barbarito, G., Sen, S., Felber, et al
AMER SOC HEMATOLOGY.2023
- **GVHD ASSESSMENT IN PHASE 1 STUDY OF BRIQUILIMAB (JSP191), LOW DOSE IRRADIATION AND FLUDARABINE CONDITIONING IN OLDER ADULTS WITH MDS/AML UNDERGOING ALLOGENEIC HCT**
Youn, M., Muffly, L., Artz, A., Lee, C., Gandhi, A., Varma, A., Scott, B., Yanagiba, C., Tiwari, R., Arulprakasam, J., Le, A., Shizuru, J., Kwon, et al
SPRINGERNATURE.2023: 306-307
- **Anti-CD117 CAR T cells incorporating a safety switch eradicate human acute myeloid leukemia and hematopoietic stem cells.** *Molecular therapy oncolytics*
Magnani, C. F., Myburgh, R., Brunn, S., Chambovey, M., Ponzo, M., Volta, L., Manfredi, F., Pellegrino, C., Pascolo, S., Miskey, C., Ivics, Z., Shizuru, J. A., Neri, et al
2023; 30: 56-71

- **Safety-Switch Engineered Anti-CD117 CAR T Cells Eradicate Human Acute Myeloid Leukemia and Hematopoietic Stem Cells**
Magnani, C. F., Myburgh, R., Brunn, S., Chambovey, M., Ponzo, M., Volta, L., Pellegrino, C., Pascolo, S., Miskey, C., Ivics, Z., Shizuru, J., Neri, D., Manz, et al
CELL PRESS.2023: 302
- **Multi-Omics Profiling of Skin Biopsies of Patients with Sclerodermatous Graft-vs-Host Disease Suggests Therapeutic Potential of Targeting Don't Eat Me Signals**
Wadsworth, P., De Souza, C., Cui, L., Yiu, C., Poyser, J., Rieger, K., Brown, R., Arai, S., Shizuru, J., Muller, A., Wernig, G.
ELSEVIER SCIENCE INC.2023: S1252-S1253
- **Improved outcomes for relapsed/refractory Hodgkin lymphoma after autologous transplantation in the era of novel agents.** *Blood*
Spinner, M. A., Sica, R. A., Tamaresis, J. S., Lu, Y., Chang, C., Lowsky, R., Frank, M. J., Johnston, L. J., Miklos, D. B., Muffly, L., Negrin, R. S., Rezvani, A. R., Shiraz, et al
2023
- **Multi-Omics Profiling of Skin Biopsies of Patients with Sclerodermatous Graft-Vs-Host Disease Suggests Therapeutic Potential of Targeting Don't Eat Me Signals**
Cui, L., De Souza, C., Lerbs, T., Poyser, J., Yu, C., Rieger, K., Arai, S., Brown, R., Shizuru, J. A., Mueller, A., Wernig, G.
AMER SOC HEMATOLOGY.2022
- **Higher Rates of Severe Infection and Persistent Cytopenias in Long-Term CAR19 Responders Than after Autologous HCT: A Single Institution Study of 139 Subjects**
Hamilton, M. P., Liu-Fei, F. C., Alig, S. K., Tamaresis, J., Esfahani, M., Good, Z., Sworder, B., Schroers-Martin, J., Liu, C., Severinsen, F., Hanson, P. J., Lu, Y., Lowsky, et al
AMER SOC HEMATOLOGY.2022: 7545-7547
- **The Development of Carhlh after Axicabtagene Ciloleucel Is Associated with Poor Outcomes**
Philip, S., Srinagesh, H. K., Hamilton, M. P., Gentile, C., Mina, A., Arai, S., Johnston, L. J., Lowsky, R., Meyer, E. H., Negrin, R. S., Rezvani, A. R., Shiraz, P., Shizuru, et al
AMER SOC HEMATOLOGY.2022: 12775-12777
- **Analysis of Bendamustine Lymphodepletion, CD19 CART Expansion, Safety and Efficacy in Patients with Rel/Ref NonHodgkin Lymphoma**
Bharadwaj, S., Hamilton, M. P., Sahaf, B., Tamaresis, J., Patil, S., Hanson, P. J., Latchford, T., Arai, S., Johnston, L. J., Lowsky, R., Negrin, R. S., Rezvani, A. R., Shizuru, et al
AMER SOC HEMATOLOGY.2022: 10371-10373
- **Belumosudil Combination Therapy in Refractory Chronic Graft-Versus-Host Disease**
Chin, M., Shizuru, J. A., Muffly, L., Shiraz, P., Johnston, L. J., Lowsky, R., Rezvani, A. R., Frank, M. J., Bharadwaj, S., Weng, W., Negrin, R. S., Miklos, D. B., Arai, et al
AMER SOC HEMATOLOGY.2022: 4788-4789
- **Outcomes for Acute Myeloid Leukemia Relapse after Allogeneic Hematopoietic Cell Transplantation Remain Poor in the Modern Era**
Philip, S., Lowsky, R., Johnston, L. J., Arai, S., Meyer, E. H., Negrin, R. S., Rezvani, A. R., Shiraz, P., Shizuru, J. A., Sidana, S., Weng, W., Bharadwaj, S., Frank, et al
AMER SOC HEMATOLOGY.2022: 4825-4827
- **Curative islet and hematopoietic cell transplantation in diabetic mice without toxic bone marrow conditioning.** *Cell reports*
Chang, C. A., Bhagchandani, P., Poyser, J., Velasco, B. J., Zhao, W., Kwon, H., Meyer, E., Shizuru, J. A., Kim, S. K.
2022; 41 (6): 111615
- **Allogeneic Hematopoietic Cell Transplantation for Adult Acute Lymphoblastic Leukemia in the Modern Era.** *Transplantation and cellular therapy*
Liang, E. C., Craig, J., Torelli, S., Cunanan, K., Iglesias, M., Arai, S., Frank, M. J., Johnston, L., Lowsky, R., Meyer, E. H., Miklos, D. B., Negrin, R., Rezvani, et al
2022
- **Exploring Potential Innate Immune Targets to Treat Fibrosis and Chronic Inflammation in Chronic Graft-Versus-Host Disease**
Paulson, N., De Souza, C., Cui, L., Lerbs, T., Poyser, J., Kooshesh, M., Saleem, A., Rieger, K., Brown, R., Kwong, B., Fernandez-Po, S., Arai, S., Shizuru, et al
SPRINGER NATURE.2022: 557
- **Real-world Experience of Cryopreserved Allogeneic Hematopoietic Grafts in the COVID-19 Pandemic: A Single Center Report.** *Transplantation and cellular therapy*
Bankova, A. K., Caveney, J., Yao, B., Ramos, T. L., Bogeholz, J., Heydari, K., Diaz, N., Jackson, M. L., Lowsky, R., Brown, J. W., Johnston, L., Rezvani, A. R., Frank, et al

1800

- **Mgta-145+Plerixafor Provides GCSF-Free Rapid and Reliable Hematopoietic Stem Cell Mobilization for Autologous Stem Cell Transplant in Patients with Multiple Myeloma: A Phase 2 Study**
Sidana, S., Bankova, A. K., Hosoya, H., Kumar, S., Tamaresis, J., Le, A., Muffly, L., Johnston, L. J., Arai, S., Lowsky, R., Meyer, E. H., Rezvani, A. R., Weng, et al
AMER SOC HEMATOLOGY.2021
- **Anti-CD117 CAR T Cells Incorporating a Safety Switch Eradicate Acute Myeloid Leukemia and Deplete Human Hematopoietic Stem Cells**
Magnani, C. F., Myburgh, R., Russkamp, N. F., Pascolo, S., Shizuru, J. A., Neri, D., Manz, M. G.
AMER SOC HEMATOLOGY.2021
- **Selective Targeting of Immune Modulatory Proteins to Mitigate Fibrosis and Inflammation in Sclerodermatous Graft-Vs-Host Disease**
Cui, L., De Souza, C., Lerbs, T., Poyser, J., Kooshesh, M., Saleem, A., Rieger, K., Brown, B., Kwong, B., Fernandez-Pol, S., Arai, S., Shizuru, J. A., Mueller, et al
AMER SOC HEMATOLOGY.2021
- **JSP191 As a Single-Agent Conditioning Regimen Results in Successful Engraftment, Donor Myeloid Chimerism, and Production of Donor Derived Naive Lymphocytes in Patients with Severe Combined Immunodeficiency (SCID)**
Agarwa, R., Dvorak, C. C., Prockop, S., Kwon, H., Long-Boyle, J. R., Le, A., Brown, J. W., Merkel, E., Truong, K., Velasco, B., Arulprakasam, K., Harada, N., Dougall, et al
AMER SOC HEMATOLOGY.2021
- **Incidence and risk factors associated with bleeding and thrombosis following chimeric antigen receptor T-cell therapy** *BLOOD ADVANCES*
Johnsrud, A., Craig, J., Baird, J., Spiegel, J., Muffly, L., Zehnder, J., Tamaresis, J., Negrin, R., Johnston, L., Arai, S., Shizuru, J., Lowsky, R., Meyer, et al
2021; 5 (21): 4465-4475
- **5-Azacytidine depletes hematopoietic stem cells and synergizes with an anti-CD117 antibody to augment donor engraftment in immunocompetent mice.** *Blood advances*
Bankova, A. K., Pang, W., Velasco, B. J., Long-Boyle, J. R., Shizuru, J. A.
2021
- **Development of immunosuppressive myeloid cells to induce tolerance in solid organ and hematopoietic cell transplant recipients.** *Blood advances*
Jensen, K. P., Hongo, D., Ji, X., Zheng, P., Pawar, R. D., Wu, H., Busque, S., Scandling, J. D., Shizuru, J. A., Lowsky, R., Shori, A., Dutt, S., Waters, et al
2021
- **Concordance of peripheral blood and bone marrow measurable residual disease in adult acute lymphoblastic leukemia.** *Blood advances*
Muffly, L., Sundaram, V., Chen, C., Yurkiewicz, I., Kuo, E., Burnash, S., Spiegel, J. Y., Arai, S., Frank, M. J., Johnston, L. J., Lowsky, R., Meyer, E. H., Negrin, et al
2021; 5 (16): 3147-3151
- **CAR T cells with dual targeting of CD19 and CD22 in adult patients with recurrent or refractory B cell malignancies: a phase 1 trial.** *Nature medicine*
Spiegel, J. Y., Patel, S., Muffly, L., Hossain, N. M., Oak, J., Baird, J. H., Frank, M. J., Shiraz, P., Sahaf, B., Craig, J., Iglesias, M., Younes, S., Natkunam, et al
2021
- **Outcomes after delayed and second autologous stem cell transplant in patients with relapsed multiple myeloma.** *Bone marrow transplantation*
Lemieux, C., Muffly, L. S., Iberri, D. J., Craig, J. K., Johnston, L. J., Lowsky, R., Shiraz, P., Rezvani, A. R., Frank, M. J., Weng, W., Meyer, E., Shizuru, J. A., Arai, et al
2021
- **Inferior Clinical Outcomes in Recipients of Cryopreserved Grafts Following Reduced Intensity Allogeneic Hematopoietic Cell Transplantation: A Single Center Report**
Bankova, A., Caveney, J., Ramos, T., Bogeholz, J., Heydari, K., Diaz, N., Jackson, M., Lowsky, R., Brown, J., Johnston, L., Rezvani, A., Frank, M., Muffly, et al
SPRINGERNATURE.2021: 181
- **Phase 2 study of MGTA-145+plerixafor for rapid and reliable hematopoietic stem cell (HSC) mobilization for autologous transplant in multiple myeloma.**
Sidana, S., Bankova, A., Hosoya, H., Muffly, L. S., Kumar, S., Johnston, L. J., Lowsky, R., Meyer, E., Rezvani, A., Weng, W., Arai, S., Frank, M., Shiraz, et al
LIPPINCOTT WILLIAMS & WILKINS.2021
- **Stem Cell Mobilization in Multiple Myeloma: Comparing Safety and Efficacy of Cyclophosphamide +/- Plerixafor vs. G-CSF +/- Plerixafor in the Lenalidomide Era.** *Transplantation and cellular therapy*
Johnsrud, A., Ladha, A., Muffly, L., Shiraz, P., Goldstein, G., Osgood, V., Shizuru, J. A., Johnston, L., Arai, S., Weng, W., Lowsky, R., Rezvani, A. R., Meyer, et al

2021

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