Stanford



Laura Johnston

Professor of Medicine (Blood and Marrow Transplantation and Cellular Therapy), Emerita

Medicine - Blood & Marrow Transplantation

CLINICAL OFFICE (PRIMARY)

- **Blood and Marrow Transplant Clinic**

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  Stanford, CA 94305

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ACADEMIC CONTACT INFORMATION

- **Administrative Contact**

  Jenny McGuire - Administrative Associate

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Bio

BIO

Dr. Laura Johnston currently serves as the Clinical Director and Clinic Chief of the Blood & Marrow Transplantation Division and specializes in Graft Versus Host Disease (GVHD), exploring prevention and treatment of acute and chronic GVHD via clinical trials. She conducts and develops clinical research trials in allogeneic and autologous hematopoietic cell transplantation (HCT) for hematologic malignancies: acute myelogenous leukemia (AML), acute lymphocytic leukemia (ALL), chronic myelogenous leukemia (CML), chronic lymphocytic leukemia (CLL), myeloproliferative disease, non-Hodgkin lymphoma (NHL), Hodgkin disease, myelodysplasia and aplastic anemia.

CLINICAL FOCUS

- Cancer > Blood and Marrow Transplant
- Cancer > Hematology
- Blood and Marrow Transplantation
- Graft-Versus-Host Disease
- Hematology

ACADEMIC APPOINTMENTS

- Professor Emeritus, Medicine - Blood & Marrow Transplantation
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Clinical Director, Division of Blood and Marrow Transplantation Stanford University Medical Center, (2009- present)
- BMT Cancer Care Program Physical Lead, Stanford Cancer Institute, (2010- present)
- Clinic Chief, Division of Blood and Marrow Transplantation Stanford University Medical Center, (2001- present)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, BMT Inpatient Utilization Task Force (2012 - present)

- Chairperson, BMT Review Committee (2011 - present)
- Member, Department of Medicine Quality Council (2011 - present)
- Member, Clinically Active Physician Council (2010 - present)
- Member, Kaiser/SHC BMT Strategic Alliance for Adult Blood and Marrow/Peripheral Stem Cell Transplantation Work Group (2010 - present)
- Preceptor, Ambulatory Medicine Clerkship Med 313 students (2009 - present)
- Mentor, Stanford Immersion in Medicine Program (2008 - present)
- Member, American Society of Blood and Marrow Transplantation (1996 - present)
- Member, American Society of Clinical Oncology (1992 - present)
- Member, American Society of Hematology (1992 - present)

PROFESSIONAL EDUCATION

- Board Certification: Hematology, American Board of Internal Medicine (2024)
- Medical Education: University of Minnesota School of Medicine (1989) MN
- Fellowship: UCSF Medical Center (1995) CA
- Residency: UCSF Medical Center (1992) CA
- Internship: UCSF Medical Center (1990) CA
- BS, University of MN , Microbiology (1982)
- MD, University of MN , Medicine (1989)

LINKS

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

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

I conduct and develop clinical research trials in allogeneic and autologous hematopoietic cell transplantation (HCT) for hematologic malignancies: acute myelogenous leukemia (AML), acute lymphocytic leukemia (ALL), chronic myelogenous leukemia (CML), chronic lymphocytic leukemia (CLL), myeloproliferative disease, non-Hodgkin lymphoma (NHL), Hodgkin disease, myelodysplasia and aplastic anemia.

A specific interest is graft versus host disease (GVHD), exploring prevention and treatment of acute and chronic GVHD via clinical trials. The objectives of the GVHD trials are to reduce the incidence of GVHD, successfully treat acute and chronic GVHD, identify modalities or agents with more tolerable toxicity profiles and ultimately improve morbidity and mortality of affected patients. To this end, I have established a chronic GVHD clinic within the Stanford BMT division which aids in prospectively identifiing appropriate patients for clinical trials. The chronic GVHD clinic allows comprehensive evaluation and treatment for allogeneic BMT patients with new or progressive CGVHD. Through a multidisciplinary approach with my interested colleagues, I hope to impact the formidable effects GVHD has on the quality of life of the post-allogeneic transplant patient.

Other interests include unrelated donor HCT exploring alternate preparative regimens or graft sources as well as HLA typing.

CLINICAL TRIALS

- 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

- Allo vs Hypomethylating/Best Supportive Care in MDS (BMTCTN1102), Not Recruiting
- Autologous Bone Marrow Transplantation in Acute Non-Lymphoblastic Leukemia During First or Subsequent Remission, Not Recruiting
- Blood and Marrow Transplant Clinical Research Network, 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
- Composite Health Assessment Risk Model (CHARM) for Older Adults (BMT CTN 1704), 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
- 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
- Expanded Access Protocol (EAP) for Nonconforming (NC) Afami-cel, Not Recruiting
- Expanded Access Protocol for Tabelecleucel for Patients With Epstein-Barr Virus-Associated Viremia or Malignancies, 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
- Ibrutinib in Treating Patients With Refractory or Relapsed Lymphoma After Donor Stem Cell Transplant, Not Recruiting
- Identifying Best Approach in Improving Quality of Life and Survival After a Donor Stem Cell Transplant in Older, Medically Infirm, or Frail Patients With Blood Diseases, Not Recruiting
- Intravenous Administration of RGI-2001 in Patient Undergoing Allogenic Hematopoietic Stem Cell Transplantation (AHSCT), Not Recruiting
- MAGE A10^{c}###T for Advanced NSCLC, Not Recruiting
- Mycophenolate Mofetil (MMF) for Treatment of Chronic Graft-versus-host Disease (GVHD), Not Recruiting
- Nilotinib and Imatinib Mesylate After Donor Stem Cell Transplant in Treating Patients With ALL or CML, 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
- Safety and Efficacy of ATIR101 as Adjunctive Treatment to Blood Stem Cell Transplantation From a Haploidentical Family Donor Compared to Post-transplant Cyclophosphamide in Patients With Blood Cancer, 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 Primary Therapy for the Treatment of Chronic Graft Versus Host Disease, 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
- Standard-Dose Combination Chemotherapy or High-Dose Combination Chemotherapy and Stem Cell Transplant in Treating Patients with Relapsed or Refractory Germ Cell Tumors, Not Recruiting
- Stem Cell Transplant From Matched Unrelated or Partially Matched Related Donors, 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
- Study of the Bruton's Tyrosine Kinase Inhibitor in Subjects With Chronic Graft Versus Host Disease, Not Recruiting
- Study of US-ATG-F to Prevent Chronic Graft Versus Host Disease (GVHD), Not Recruiting
- Targeted Therapy of Bronchiolitis Obliterans Syndrome, Not Recruiting
- Treatment for Acute Graft-Versus-Host Disease (BMT CTN 0302), Not Recruiting

Publications

PUBLICATIONS

- **Donor Regulatory T-Cell Therapy to Prevent Graft-Versus-Host Disease.** *Blood*
  Meyer, E., Pavlova, A., Villar-Prados, A., Bader, C. S., Xie, B., Muffly, L., Kim, P., Sutherland, K. C., Bharadwaj, S., Dahiya, S., Frank, M. J., Arai, S., Johnston, et al
  2025

- **Belumosudil combination therapy for chronic graft-versus-host-disease in real-world clinical practice.** *Bone marrow transplantation*
  Chin, M. M., Tamaresis, J. S., Johnston, L. J., Lowsky, R., Meyer, E., Muffly, L., Shiraz, P., Frank, M. J., Rezvani, A. R., Bharadwaj, S., Weng, W. K., Shizuru, J. A., Arai, et al
  2024

- **Prognostic Understanding for Older, Medically Infirm, and/or Frail Recipients of Allogeneic Hematopoietic Cell Transplantation in an Ongoing Seamless Phase 2/3 Randomized Interventional Trial (ACE-BMT)**
  Loggers, E. T., Fausto, J., Givens, M., Yeow, M., Jayani, R., Alkhateeb, H. B., Schoenherr, L. A., Rabow, M. W., Juckett, M. B., Carrum, G., Uberti, J., Neale, K., Lopez, et al
  ELSEVIER.2024: 2297-2298

- **Phase II study of novel CXCR2 agonist and Plerixafor for rapid stem cell mobilization in patients with multiple myeloma.** *Blood cancer journal*
  Sidana, S., Bankova, A. K., Hosoya, H., Kumar, S. K., Holmes, T. H., Tamaresis, J., Le, A., Muffly, L. S., Maysel-Auslender, S., Johnston, L., Arai, S., Lowsky, R., Meyer, et al
  2024; 14 (1): 173

- **PHASE 1 TRIAL RESULTS FOR PATIENTS WITH ADVANCED HEMATOLOGIC MALIGNANCIES TREATED WITH ORCA-T CELL THERAPY WITH REDUCED INTENSITY CONDITIONING AND SINGLE AGENT TACROLIMUS**
  Villar-Prados, A., Sutherland, K., Negrin, R., Arai, S., Frank, M., Johnston, L., Lowsky, R., Miklos, D., Muffly, L., Dahiya, S., Rezvani, A., Sidana, S., Shiraz, et al
  SPRINGERNATURE.2024: 287-288

- **CD22-directed CAR T-cell therapy for large B-cell lymphomas progressing after CD19-directed CAR T-cell therapy: a dose-finding phase 1 study.** *Lancet (London, England)*
  Frank, M. J., Baird, J. H., Kramer, A. M., Srinagesh, H. K., Patel, S., Brown, A. K., Oak, J. S., Younes, S. F., Natkunam, Y., Hamilton, M. P., Su, Y. J., Agarwal, N., Chinnasamy, et al
  2024

- **A Phase 1 Clinical Trial of NKTR-255 with CD19-22 CAR-T Cell Therapy for Refractory B-cell Acute Lymphoblastic Leukemia.** *Blood*
  Srinagesh, H. K., Jackson, C., Shiraz, P., Jeyakumar, N., Hamilton, M. P., Egeler, E., Mavroukakis, S., Kuo, A., Cancilla, J., Sahaf, B., Agarwal, N., Kanegai, A. M., Kramer, et al
  2024

- **Bendamustine is a safe and effective lymphodepletion agent for axicabtagene ciloleucel in patients with refractory or relapsed large B-cell lymphoma.** *Journal for immunotherapy of cancer*
  Bharadwaj, S., Lau, E., Hamilton, M. P., Goyal, A., Srinagesh, H., Jensen, A., Lee, D., Mallampet, J., Elkordy, S., Syal, S., Patil, S., Latchford, T., Sahaf, et al
  2024; 12 (7)

- **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

- **CD22 CAR T cells demonstrate high response rates and safety in pediatric and adult B-ALL: Phase 1b results.** *Leukemia*
  Schultz, L. M., Jeyakumar, N., Kramer, A. M., Sahaf, B., Srinagesh, H., Shiraz, P., Agarwal, N., Hamilton, M., Erickson, C., Jacobs, A., Moon, J., Baggott, C., Arai, 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

- **Clofarabine and High-Dose Melphalan Reduced Intensity Conditioning Regimen with Methotrexate-Based GvHD Prophylaxis**

  On, S., Domingo, W., Cheung, E., Johnston, L.

  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

- **The Composite Health Risk Assessment Model (CHARM) to Predict 1-Year Non-Relapse Mortality (NRM) Among Older Recipients of Allogeneic Transplantation: A Prospective BMT-CTN Study 1704**

  Artz, A., Logan, B. R., Saber, W., Geller, N., Bellach, A., Kou, J., Wood, W., McCarty, J. M., Knight, T. G., Runaas, L., Johnston, L., Walston, J., Nakamura, et al

  AMER SOC HEMATOLOGY.2023

- **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

- **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

- **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 CarhIh after Axicabtagene Ciloleucel Is Associated with Poor Outcomes**

  Philip, S., Srinagesh, H. K., Hamilton, M. P., Gentille, 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

- **Geriatrics assessment in older adults referred for hematopoietic cell transplantation.** *Journal of the American Geriatrics Society*

  Sossenheimer, P. H., Bharadwaj, S., Johnston, L., Periyakoil, V. S.

  2022

- **The safety and tolerability of pirfenidone for bronchiolitis obliterans syndrome after hematopoietic cell transplant (STOP-BOS) trial.** *Bone marrow transplantation*

Matthaiou, E. I., Sharifi, H., O'Donnell, C., Chiu, W., Owyang, C., Chatterjee, P., Turk, I., Johnston, L., Brondstetter, T., Morris, K., Cheng, G., Hsu, J. L.

2022

- **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

- **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

- **CD22-CAR T-Cell Therapy Mediates High Durable Remission Rates in Adults with Large B-Cell Lymphoma Who Have Relapsed after CD19-CAR T-Cell Therapy**

  Frank, M. J., Baird, J. H., Patel, S., Craig, J., Spiegel, J. Y., Ehlinger, Z., Chinnasamy, H., Younes, S. F., Oak, J. S., Natkunam, Y., Reynolds, W. D., Iglesias, M., Crawford, et al

  AMER SOC HEMATOLOGY.2021

- **Mgta-145+Plerixafor Provides GCSFFree 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

- **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

- **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

- **NUTRITIONAL DEFICIENCY CONTRIBUTING TO REFRACTORY ERYTHRODERMA IN HEMATOPOETIC CELL TRANSPLANT PATIENTS: DISTINCTIVE CLINICAL AND HISTOPATHOLOGICAL FINDINGS.** *Journal of the American Academy of Dermatology*

  Winge, M. C., Rieger, K. E., Kim, J., Weng, W., Johnston, L. J., Miklos, D. B., Strelo, J., Zaba, L. C., Pugliese, S. B., Novoa, R. A., Kwong, B. Y.

  2021

- **Standardizing Definitions of Hematopoietic Recovery, Graft Rejection, Graft Failure, Poor Graft Function, and Donor Chimerism in Allogeneic Hematopoietic Cell Transplantation: A Report on Behalf of the American Society for Transplantation and Cellular Therapy.** *Transplantation and cellular therapy*

  Kharfan-Dabaja, M. A., Kumar, A., Ayala, E., Aljurf, M., Nishihori, T., Marsh, R., Burroughs, L. M., Majhail, N., Al-Homsi, A. S., Al-Kadhimi, Z. S., Bar, M., Bertaina, A., Boelens, et al

  2021; 27 (8): 642-649

- **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

- **Head-to-head Comparison of Qualitative Radiologist Assessment With Automated Quantitative Computed Tomography Analysis for Bronchiolitis Obliterans Syndrome After Hematopoietic Cell Transplantation.** *Journal of thoracic imaging*
  Sharifi, H., Guenther, Z. D., Leung, A. N., Johnston, L., Lai, Y. K., Hsu, J. L., Guo, H. H.
  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

- **Use of Backup Stem Cells for Stem Cell Boost and Second Transplant in Patients with Multiple Myeloma Undergoing Autologous Stem Cell Transplantation.** *Transplantation and cellular therapy*
  Liang, E. C., Muffly, L. S., Shiraz, P., Shizuru, J. A., Johnston, L., Arai, S., Frank, M. J., Weng, W., Lowsky, R., Rezvani, A., Meyer, E. H., Negrin, R., Miklos, et al
  2021

- **Immune reconstitution and infectious complications following axicabtagene ciloleucel therapy for large B-cell lymphoma.** *Blood advances*
  Baird, J. H., Epstein, D. J., Tamaresis, J. S., Ehlinger, Z., Spiegel, J. Y., Craig, J., Claire, G. K., Frank, M. J., Muffly, L., Shiraz, P., Meyer, E., Arai, S., Brown, et al
  2021; 5 (1): 143-155

- **Immune reconstitution and infectious complications following axicabtagene ciloleucel therapy for large B-cell lymphoma** *BLOOD ADVANCES*
  Baird, J. H., Epstein, D. J., Tamaresis, J. S., Ehlinger, Z., Spiegel, J. Y., Craig, J., Claire, G. K., Frank, M. J., Muffly, L., Shiraz, P., Meyer, E., Arai, S., Brown, et al
  2021; 5 (1): 143–55

- **Incidence and Risk Factors Associated with Bleeding and Thrombosis Following Chimeric Antigen Receptor T Cell Therapy.** *Blood advances*
  Johnsrud, A. J., Craig, J., Baird, J. H., Spiegel, J. Y., Muffly, L., Zehnder, J. L., Tamaresis, J. S., Negrin, R. S., Johnston, L., Arai, S., Shizuru, J. A., Lowsky, R., Meyer, et al
  2021

- **Outcomes with Autologous or Allogeneic Stem Cell Transplantation in Patients with Plasma Cell Leukemia in the Era of Novel Agents.** *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*
  Lemieux, C., Johnston, L. J., Lowsky, R., Muffly, L. S., Craig, J. K., Shiraz, P., Rezvani, A., Frank, M. J., Weng, W., Meyer, E., Shizuru, J., Arai, S., Negrin, et al
  2020

- **Autologous stem cell transplantation versus no transplant in patients above 70 with multiple myeloma.**
  Lemieux, C., Muffly, L. S., Iberri, D., Rezvani, A., Lowsky, R., Frank, M., Craig, J. K., Liedtke, M., Negrin, R., Weng, W., Meyer, E., Johnston, L. J., Shizuru, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Impact of proteasome inhibitor vs. IMiD maintenance therapy on outcomes of patients with high-risk multiple myeloma (HRMM).**
  Tam, E., Iberri, D., Liedtke, M., Muffly, L. S., Shiraz, P., Frank, M., Lowsky, R., Rezvani, A., Negrin, R., Meyer, E., Arai, S., Johnston, L. J., Shizuru, et al
  LIPPINCOTT WILLIAMS & WILKINS.2020

- **Allogeneic Hematopoietic Cell Transplantation for Adult Acute Lymphoblastic Leukemia: Significant Increase in Survival in the Post-Targeted Immunotherapy Era**

  Muffly, L., Arai, S., Johnston, L., Lowsky, R., Meyer, E. H., Miklos, D. B., Negrin, R. S., Rezvani, A., Shiraz, P., Shizuru, J. A., Sidana, S., Weng, W., Cunanan, et al

  ELSEVIER SCIENCE INC.2020: S106

- **Transplant Physicians' Attitudes on Candidacy for Allogeneic Hematopoietic Cell Transplantation (HCT) in Older Patients: The Need for a Standardized Geriatric Assessment (GA) Tool**

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