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Biostatistician, Biomedical Data Science

Publications

PUBLICATIONS

- **Allogeneic HSC and regulatory T cell (Orca-T) engineered cell therapy following reduced intensity conditioning: Results of a single center Phase 1 study**
Villar-Prados, A., Kim, P., Sutherland, K., Negrin, R., Arai, S., Frank, M., Johnston, L., Lowsky, R., Miklos, D., Muffly, L., Dahiya, S., Rezvani, A., Sidana, et al
ELSEVIER.2025: 111-112
- **CAR19 therapy drives expansion of clonal hematopoiesis and associated cytopenias.** *Research square*
Hamilton, M. P., Phillips, N., Noordenbos, T., Boegeholz, J., Sugio, T., Sworder, B. J., Alig, S. K., Good, Z., Schroers-Martin, J. G., Tamaresis, J., Esfahani, M. S., Lu, Y., Olsen, et al
2025
- **The Impact of Anti-CD38 Monoclonal Antibody Therapy on Stem-Cell Mobilization Yields in Patients with Newly Diagnosed Multiple Myeloma (NDMM) Referred from Community and Academic Oncology Practices: Single Center, Real World Data 2021-2024.** *Transplantation and cellular therapy*
Uzun, D., Paul, J. M., Jensen, A., Tamaresis, J., Domingo, W., Arai, S., Ventura, F. A., Rocha, J., Bennett, L., Jones, A., Bharadwaj, S., Johnston, L., Lowsky, et al
2025
- **Red teaming ChatGPT in medicine to yield real-world insights on model behavior.** *NPJ digital medicine*
Chang, C. T., Farah, H., Gui, H., Rezaei, S. J., Bou-Khalil, C., Park, Y. J., Swaminathan, A., Omiye, J. A., Kolluri, A., Chaurasia, A., Lozano, A., Heiman, A., Jia, et al
2025; 8 (1): 149
- **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
- **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
SPRINGER NATURE.2024: 287-288
- **Five-Year Follow-Up of Standard-of-Care Axicabtagene Ciloleucel for Large B-Cell Lymphoma: Results From the US Lymphoma CAR T Consortium.** *Journal of clinical oncology : official journal of the American Society of Clinical Oncology*

- Jain, M. D., Spiegel, J. Y., Nastoupil, L. J., Tamaresis, J., Ghobadi, A., Lin, Y., Lekakis, L., Reagan, P., Oluwole, O., McGuirk, J., Deol, A., Dorritie, K. A., Sehgal, et al
2024: JCO2302786
- **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
 - **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
 - **Five Year Outcomes of Patients with Large B-Cell Lymphoma Treated with Standard-of-Care Axicabtagene Ciloleucel: Results from the US Lymphoma CAR-T Cell Consortium**
Spiegel, J. Y., Jain, M. D., Nastoupil, L. J., Tamaresis, J., Ghobadi, A., Lin, Y., Lekakis, L. J., Reagan, P. M., Oluwole, O. O., McGuirk, J. P., Deol, A., Dorritie, K., Sehgal, 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
 - **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
 - **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
 - **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
 - **Post-infusion CAR T-Reg cells identify patients resistant to CD19-CAR therapy** *NATURE MEDICINE*
Good, Z., Spiegel, J. Y., Sahaf, B., Malipatlolla, M. B., Ehlinger, Z. J., Kurra, S., Desai, M. H., Reynolds, W. D., Lin, A., Vandris, P., Wu, F., Prabhu, S., Hamilton, et al
2022
 - **A Composite Endpoint for Treatment Benefit According to Patient Preference** *STATISTICS IN BIOPHARMACEUTICAL RESEARCH*
Lu, Y., Zhao, Q., Zou, J., Yan, S., Tamaresis, J. S., Nelson, L., Tu, X. M., Chen, J., Tian, L.
2022

- **A Composite Endpoint for Treatment Benefit According to Patient Preference.** *Statistics in biopharmaceutical research*
Lu, Y., Zhao, Q., Zou, J., Yan, S., Tamaresis, J. S., Nelson, L., Tu, X. M., Chen, J., Tian, L.
2022; 14 (4): 408-422
- **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
- **Long-Term Outcomes of Patients with Large B-Cell Lymphoma Treated with Standard-of-Care Axicabtagene Ciloleucel: Results from the US Lymphoma CAR-T Cell Consortium**
Spiegel, J. Y., Jain, M. D., Nastoupil, L., Tamaresis, J., Ghobadi, A., Lin, Y., Lekakis, L. J., Reagan, P. M., Oluwole, O. O., McGuirk, J. P., Deol, A., Sehgal, A. R., Goy, et al
AMER SOC HEMATOLOGY.2021: 3826-+
- **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
- **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
- **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
- **GD2 CAR T cells mediate clinical activity and manageable toxicity in children and young adults with DIPG and H3K27M-mutated diffuse midline gliomas.**
Majzner, R. G., Ramakrishna, S., Mochizuki, A., Patel, S., Chinnasamy, H., Yeom, K., Schultz, L., Richards, R., Campen, C., Reschke, A., Mahdi, J., Toland, A., Baggott, et al
AMER ASSOC CANCER RESEARCH.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 of Patients with Large B-cell Lymphoma Progressing after Axicabtagene Ciloleucel.** *Blood*
Spiegel, J. Y., Dahiya, S., Jain, M. D., Tamaresis, J. S., Nastoupil, L., Jacobs, M. T., Ghobadi, A., Lin, Y., Lunning, M., Lekakis, L. J., Reagan, P., Oluwole, O. O., McGuirk, et al
2020

- **Analysis of Whole CDR3 TCR Repertoire after Hematopoietic Stem Cell Transplantation in Two Clinical Cohorts.** *Biology of blood and marrow transplantation : journal of the American Society for Blood and Marrow Transplantation*
Shah, O., Tamaresis, J. S., Kenyon, L. J., Xu, L., Zheng, P., Gupta, P., Rangarajan, K., Lee, S., Spellman, S., Nikiforow, S., Zehnder, J., Meyer, E. H.
2020
- **Mixed chimerism and acceptance of kidney transplants after immunosuppressive drug withdrawal.** *Science translational medicine*
Busque, S. n., Scandling, J. D., Lowsky, R. n., Shizuru, J. n., Jensen, K. n., Waters, J. n., Wu, H. H., Sheehan, K. n., Shori, A. n., Choi, O. n., Pham, T. n., Fernandez Vina, M. A., Hoppe, et al
2020; 12 (528)
- **CD22-Directed CAR T-Cell Therapy Induces Complete Remissions in CD19-Directed CAR-Refractory Large B-Cell Lymphoma.** *Blood*
Baird, J. H., Frank, M. J., Craig, J. n., Patel, S. n., Spiegel, J. Y., Sahaf, B. n., Oak, J. S., Younes, S. n., Ozawa, M. n., Yang, E. n., Natkunam, Y. n., Tamaresis, J. S., Ehlinger, et al
2020
- **Recipient-specific T-cell repertoire reconstitution in the gut following murine hematopoietic cell transplant.** *Blood advances*
Zheng, P. n., Tamaresis, J. n., Thangavelu, G. n., Xu, L. n., You, X. n., Blazar, B. R., Negrin, R. S., Zehnder, J. L., Iliopoulou, B. P., Meyer, E. H.
2020; 4 (17): 4232–43
- **Image-based scaling laws for somatic growth and pulmonary artery morphometry from infant- to adulthood.** *American journal of physiology. Heart and circulatory physiology*
Dong, M. L., Yang, W. n., Tamaresis, J. S., Chan, F. P., Zucker, E. J., Kumar, S. n., Rabinovitch, M. n., Marsden, A. L., Feinstein, J. A.
2020
- **Outcomes in large B-cell lymphoma progressing after axicabtagene ciloleucel (Axi-cel): Results from the US Lymphoma CAR-T Consortium.**
Spiegel, J. Y., Dahiya, S., Jain, M. D., Nastoupil, L. J., Ghobadi, A., Lin, Y., Lunning, M., Reagan, P., McGuirk, J., Deol, A., Munoz, J., Locke, F., Neelapu, et al
AMER SOC CLINICAL ONCOLOGY.2019
- **Nonmyeloablative TLI-ATG conditioning for allogeneic transplantation: mature follow-up from a large single-center cohort.** *Blood advances*
Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Arai, S. n., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffy, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, J. A., Weng, et al
2019; 3 (16): 2454–64
- **Nonmyeloablative Allogeneic Transplantation Using TLI-ATG Conditioning for Lymphoid and Myeloid Malignancies: Mature Follow-up from a Large, Single Institution Cohort**
Spinner, M. A., Kennedy, V. E., Tamaresis, J. S., Lavori, P. W., Elder, L. V., Arai, S., Johnston, L. J., Meyer, E. H., Miklos, D. B., Muffy, L. S., Negrin, R. S., Rezvani, A. R., Shizuru, et al
AMER SOC HEMATOLOGY.2018
- **High human herpesvirus 6 viral load in pediatric allogeneic hematopoietic stem cell transplant patients is associated with detection in end organs and high mortality** *PEDIATRIC TRANSPLANTATION*
Winestone, L. E., Punn, R., Tamaresis, J. S., Buckingham, J., Pinsky, B. A., Waggoner, J. J., Kharbanda, S.
2018; 22 (2)
- **Local estrogen axis in the human bone microenvironment regulates estrogen receptor-positive breast cancer cells.** *Breast cancer research : BCR*
Amanatullah, D. F., Tamaresis, J. S., Chu, P. n., Bachmann, M. H., Hoang, N. M., Collyar, D. n., Mayer, A. T., West, R. B., Maloney, W. J., Contag, C. H., King, B. L.
2017; 19 (1): 121
- **Updated analysis: central venous access device infection rates in an expanded cohort of paediatric patients with severe haemophilia receiving prophylactic recombinant tissue plasminogen activator.** *Haemophilia*
McCarthy, C. E., O'Brien, M., Andrews, J., Zoland, J. M., Macasiray, E., Wong, W., Lo, C., Glader, B., TAMAREISIS, J., Jeng, M.
2016; 22 (1): 81-86
- **Breast Cancer Cell Colonization of the Human Bone Marrow Adipose Tissue Niche** *NEOPLASIA*
Templeton, Z. S., Lie, W., Wang, W., Rosenberg-Hasson, Y., Alluri, R. V., Tamaresis, J. S., Bachmann, M. H., Lee, K., Maloney, W. J., Contag, C. H., King, B. L.

2015; 17 (12): 849-861

- **Reading abilities in school-aged preterm children: a review and meta-analysis** *DEVELOPMENTAL MEDICINE AND CHILD NEUROLOGY*
Kovachy, V. N., Adams, J. N., Tamaresis, J. S., Feldman, H. M.
2015; 57 (5): 410-419
- **A Randomized Clinical Trial of Therapeutic Hypothermia Mode during Transport for Neonatal Encephalopathy.** *journal of pediatrics*
Akula, V. P., Joe, P., Thusu, K., Davis, A. S., Tamaresis, J. S., Kim, S., Shimotake, T. K., Butler, S., Honold, J., Kuzniewicz, M., Desandre, G., Bennett, M., Gould, et al
2015; 166 (4): 856-861 e2
- **A randomized clinical trial of therapeutic hypothermia mode during transport for neonatal encephalopathy.** *journal of pediatrics*
Akula, V. P., Joe, P., Thusu, K., Davis, A. S., Tamaresis, J. S., Kim, S., Shimotake, T. K., Butler, S., Honold, J., Kuzniewicz, M., Desandre, G., Bennett, M., Gould, et al
2015; 166 (4): 856-61 e1 2
- **Regional variation in antenatal corticosteroid use: a network-level quality improvement study.** *Pediatrics*
Profit, J., Goldstein, B. A., TAMAREISIS, J., Kan, P., Lee, H. C.
2015; 135 (2): e397-404
- **Molecular Classification of Endometriosis and Disease Stage Using High-Dimensional Genomic Data** *ENDOCRINOLOGY*
Tamaresis, J. S., Irwin, J. C., Goldfien, G. A., Rabban, J. T., Burney, R. O., Nezhat, C., DePaolo, L. V., Giudice, L. C.
2014; 155 (12): 4986-4999
- **Coculturing human endometrial epithelial cells and stromal fibroblasts alters cell-specific gene expression and cytokine production** *FERTILITY AND STERILITY*
Chen, J. C., Erikson, D. W., Piltonen, T. T., Meyer, M. R., Barragan, F., McIntire, R. H., Tamaresis, J. S., Vo, K. C., Giudice, L. C., Irwin, J. C.
2013; 100 (4): 1132-1143
- **Molecular probe technology detects bacteria without culture** *BMC MICROBIOLOGY*
Hyman, R. W., St Onge, R. P., Kim, H., Tamaresis, J. S., Miranda, M., Aparicio, A. M., Fukushima, M., Pourmand, N., Giudice, L. C., Davis, R. W.
2012; 12
- **Perivascular Human Endometrial Mesenchymal Stem Cells Express Pathways Relevant to Self-Renewal, Lineage Specification, and Functional Phenotype** *BIOLOGY OF REPRODUCTION*
Spitzer, T. L., Rojas, A., Zelenko, Z., Aghajanova, L., Erikson, D. W., Barragan, F., Meyer, M., Tamaresis, J. S., Hamilton, A. E., Irwin, J. C., Giudice, L. C.
2012; 86 (2)
- **A model for shear stress sensing and transmission in vascular endothelial cells** *BIOPHYSICAL JOURNAL*
Mazzag, B. M., Tamaresis, J. S., Barakat, A. I.
2003; 84 (6): 4087-4101