



Robert Negrin

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

Medicine - Blood & Marrow Transplantation

 NIH Biosketch available Online

CLINICAL OFFICES

- **Stanford Cancer Center**

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Bio

BIO

Robert S. Negrin, MD is a Professor of Medicine and former Chief of the Division of Blood and Marrow Transplantation at Stanford University from 2000-2020.

He received his undergraduate degree from the University of California at Berkeley and MD from Harvard University. He trained in medicine and hematology at Stanford University and joined the faculty in 1990. His research work has focused on cellular immunology in particular developing a more fundamental understanding of complex biological reactions such as graft versus host and graft vs tumor reactions in animal models and in the clinic. He has authored over 225 original papers, 40 book chapters and a book. He has received a number of awards including the Doris Duke Distinguished Clinical Scientist Award and is a member of the Association of American Physicians. He was previously the President of the International Society of Cellular Therapy and the American Society of Blood and Marrow Transplantation. He served as an Associate Editor of the journal Blood and is the founding editor of Blood Advances.

CLINICAL FOCUS

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

ACADEMIC APPOINTMENTS

- Professor, Medicine - Blood & Marrow Transplantation
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

ADMINISTRATIVE APPOINTMENTS

- Division Chief, Blood and Marrow Transplant Program, Stanford University, (2000- present)
- Medical Director, Clinical Bone Marrow Transplantation Laboratory, (1990- present)

HONORS AND AWARDS

- Associate Editor, Blood (2010-2017)
- Member, Association of American Physicians (AAP) (2008)
- President, American Society of Blood and Marrow Transplantation (2006-2007)
- Distinguished Clinical Scientist Award, Doris Duke Foundation (2004-2009)
- President, International Society of Cellular Therapy (2000-2002)
- Fellow, Jose Carreras International Leukemia Foundation (1993-1996)
- Fellowship, Damon Runyon-Walter Winchell Cancer Fund (1988-1991)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, American Society of Hematology
- Editor in Chief, Blood Advances (2017 - present)
- Member, International Society of Experimental Hematology
- Member, American College of Physicians
- Member, American Association for the Advancement of Science
- Member, International Society for Cellular Therapy
- Member, American Society for Blood and Marrow Transplantation

PROFESSIONAL EDUCATION

- Fellowship: Stanford University School of Medicine (1987) CA
- Residency: Stanford University School of Medicine (1986) CA
- Board Certification: Hematology, American Board of Internal Medicine (2019)
- Internship: Stanford University School of Medicine (1985) CA
- Board Certification: Internal Medicine, American Board of Internal Medicine (1987)
- Medical Education: Harvard Medical School (1984) MA
- BA, Univ. California, Berkeley , Biochemistry (1977)

COMMUNITY AND INTERNATIONAL WORK

- Volunteer

LINKS

- Video Story: <https://stanfordhealthcare.org/stanford-health-care-now/why-i-got-into-medicine/why-medicine-robert-negrin-md.html>
- Get a Second Opinion: <https://stanfordhealthcare.org/second-opinion/overview.html>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research projects in our laboratory are aimed at studying the biology of cell populations capable of inducing or suppressing graft vs host disease as well as cells capable of promoting a graft vs tumor effect. In particular we are studying:

- 1) The clinical utility of expanded cytotoxic cells for immunotherapy. We have developed animal models utilizing mice with severe combined immunodeficiency (SCID) which will accept human tumor cells or murine model systems of syngeneic and allogeneic transplantation. In some instances the tumor cells are transfected

with the bioluminescent marker luciferase so that the tumor cell growth can be quantitatively tracked in living animals. Using these model system we are studying the clinical efficacy of the expanded cytotoxic cells.

2) The interaction between the cytotoxic effector cells and a variety of tumor cell targets is under study. The role of granzyme/perforin and fas mediated pathways as well as the cell surface molecule NKG2D in cytotoxicity is under study.

3) We are exploring the biological impact of phenotypically defined populations of regulatory T cells on graft vs host disease and graft vs tumor reactions.

4) We are utilizing bioluminescent techniques to study these complex biological processes by either labelling the tumor or effector cell populations with the light emitting luciferase gene such that small numbers of cells can be tracked non-invasively, sensitively and quantitatively.

CLINICAL TRIALS

- Autologous CD22 CAR T Cells in Adults w/ Recurrent or Refractory B Cell Malignancies, Recruiting
- Bone Marrow Grafting for Leukemia and Lymphoma, Recruiting
- CIBMTR Research Database, Recruiting
- Evaluate Safety of Axicabtagene Ciloleuceel 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
- Ibrutinib in Treating Patients With Refractory or Relapsed Lymphoma After Donor Stem Cell Transplant, 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 BMT in Advanced Leukemia or High Grade Lymphoma, Not Recruiting
- Allo vs Hypomethylating/Best Supportive Care in MDS (BMTCTN1102), 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 From Related Haploidentical Donors, Not Recruiting
- Allogeneic Transplantation Using Total Lymphoid Irradiation (TLI) and Anti-Thymocyte Globulin (ATG) for Older Patients With Hematologic Malignancies, Not Recruiting
- Autologous Bone Marrow Transplantation in Acute Non-Lymphoblastic Leukemia During First or Subsequent Remission, Not Recruiting
- Autologous Followed by Non-myeloablative Allogeneic Transplantation for Non-Hodgkin's Lymphoma, Not Recruiting
- Autologous Stem Cell Rescue for Primary Amyloidosis, Not Recruiting
- Axicabtagene Ciloleuceel Expanded Access Study, 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
- 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
- Cytokine Induced Killer Cells as Post-Transplant Immunotherapy Following Allogeneic Hematopoietic Cell Transplantation, Not Recruiting
- Defibrotide for Patients With Hepatic Venooclusive Disease: A Treatment IND Study, Not Recruiting
- Defibrotide for the Treatment of Severe Hepatic Venooclusive Disease in Hematopoietic Stem Cell Transplant Patients, 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
- Enrichment & Purging of Stem Cells in Non-Hodgkin's Lymphoma, 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 Sequential Therapy and Autologous Stem Cell Rescue for Multiple Myeloma, 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
- 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
- Non-Myeloablative Allogeneic Transplant for Myelodysplastic Syndromes and Myeloproliferative Disorders, 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 1-2 MAHCT w/ TCell Depleted Graft w/ Simultaneous Infusion Conventional and Regulatory T Cell, Not Recruiting
- Phase 1-2 of a CpG-Activated Whole Cell Vaccine Followed by Autologous Immunotransplant for MCL, 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
- Safety and Efficacy of KTE-C19 in Combination With Atezolizumab in Adults With Refractory Diffuse Large B-Cell Lymphoma (DLBCL), Not Recruiting
- Sibling and Unrelated Donor Hematopoietic Cell Transplant in Hematologic Malignancies, 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

- 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
- Stem Cell Transplant With Lenalidomide Maintenance in Patients With Multiple Myeloma (BMT CTN 0702), Not Recruiting
- Study of Effectiveness of Axicabtagene Ciloleucef Compared to Standard of Care Therapy in Patients With Relapsed/Refractory Diffuse Large B Cell Lymphoma, 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

Teaching

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Biki Gupta Kanu, Hao Yan

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Cancer Biology (Phd Program)
- Immunology (Phd Program)
- Medicine (Masters Program)

Publications

PUBLICATIONS

- **Single-cell Transcriptomics Reveal Different Maturation Stages and Sublineages Commitment of Human Thymic Invariant Natural Killer T cells.** *Journal of leukocyte biology*
Maas-Bauer, K., Köhler, N., Stell, A. V., Zwick, M., Acharya, S., Rensing-Ehl, A., König, C., Kroll, J., Baker, J., Koßmann, S., Pradier, A., Wang, S., Docquier, et al
2023
- **Analysis of the T-cell repertoire and transcriptome identifies mechanisms of regulatory T-cell suppression of GVHD** *BLOOD*
Lohmeyer, J. K., Hirai, T., Turkoz, M., Buhler, S., Ramos, T., Kohler, N., Baker, J., Melotti, A., Wagner, I., Pradier, A., Wang, S., Ji, X., Becattini, et al
2023; 141 (14): 1755-1767
- **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 T cell Repertoire and Transcriptome Identifies Mechanisms of Regulatory T cell (Treg) Suppression of GvHD.** *Blood*
Lohmeyer, J. K., Hirai, T., Turkoz, M., Buhler, S., Lopes Ramos, T., Kohler, N., Baker, J., Melotti, A., Wagner, I., Pradier, A., Wang, S., Ji, X., Becattini, et al
2022
- **Prevention of acute GVHD disease using an orthogonal IL-2/IL-2Rbeta system to selectively expand regulatory T-cells in vivo.** *Blood*
Lopes Ramos, T., Bolivar-Wagers, S., Jin, S., Thangavelu, G., Simonetta, F., Lin, P., Hirai, T., Saha, A., Koehn, B. H., L Su, L., Picton, L. K., Baker, J., Lohmeyer, et al
2022
- **IL-2 receptor engineering enhances regulatory T cell function suppressed by calcineurin inhibitor.** *American journal of transplantation : official journal of the American Society of Transplantation and the American Society of Transplant Surgeons*
Hirai, T., Lin, P., Ramos, T. L., Simonetta, F., Su, L. L., Picton, L. K., Baker, J., Lohmeyer, J. K., Garcia, K. C., Negrin, R. S.

2022

- **ICOS ImmunopET Enables Visualization of Activated T Cells and Early Diagnosis of Murine Acute Gastrointestinal GvHD.** *Blood advances*
Xiao, Z., Alam, I. S., Simonetta, F., Chen, W., Scheller, L., Murty, S., Lohmeyer, J. K., Lopes Ramos, T. L., James, M. L., Negrin, R. S., Gambhir, S. S.
2022
- **Multiparameter Longitudinal Imaging of Immune Cell Activity in Chimeric Antigen Receptor T Cell and Checkpoint Blockade Therapies.** *ACS central science*
Xie, J., El Rami, F., Zhou, K., Simonetta, F., Chen, Z., Zheng, X., Chen, M., Balakrishnan, P. B., Dai, S., Murty, S., Alam, I. S., Baker, J., Negrin, et al
2022; 8 (5): 590-602
- **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
- **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., Tamareis, 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
- **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
- **Allogeneic CAR-invariant Natural Killer T Cells Exert Potent Antitumor Effects Through Host CD8 T Cell Cross-Priming.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Simonetta, F., Lohmeyer, J. K., Hirai, T., Maas-Bauer, K., Alvarez, M., Wenokur, A. S., Baker, J., Aalipour, A., Ji, X., Haile, S. T., Mackall, C. L., Negrin, R.
2021
- **CAR T cells with dual targeting of CD19 and CD22 in adult patients with recurrent or refractory B cell malignancies: a phase I 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
- **A fructo-oligosaccharide prebiotic is well-tolerated in adults undergoing allogeneic hematopoietic stem cell transplantation: a phase I dose-escalation trial.** *Transplantation and cellular therapy*
Andermann, T. M., Fouladi, F., Tamburini, F. B., Sahaf, B., Tkachenko, E., Greene, C., Buckley, M. T., Brooks, E. F., Hedlin, H., Arai, S., Mackall, C. L., Miklos, D., Negrin, et al
2021
- **Imaging alloreactive T cells provides early warning of organ transplant rejection.** *JCI insight*
Hirai, T., Mayer, A. T., Nobashi, T. W., Lin, P., Xiao, Z., Udagawa, T., Seo, K., Simonetta, F., Baker, J., Cheng, A. G., Negrin, R. S., Gambhir, S. S.
2021; 6 (13)
- **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

- **Invariant Natural Killer T Cell Subsets Have Diverse Graft-Versus-Host-Disease-Preventing and Anti-Tumor Effects.** *Blood*
Maas-Bauer, K., Lohmeyer, J. K., Hirai, T., Lopes Ramos, T., Fazal, F. M., Litzenburger, U. M., Yost, K. E., Ribado, J. V., Kambham, N., Wenokur, A., Lin, P., Alvarez, M., Mavers, et al
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
- **Selective expansion of regulatory T cells using an orthogonal IL-2/IL-2 receptor system facilitates transplantation tolerance.** *The Journal of clinical investigation*
Hirai, T., Ramos, T. L., Lin, P., Simonetta, F., Su, L. L., Picton, L. K., Baker, J., Lin, J., Li, P., Seo, K., Lohmeyer, J. K., Wagers, S. B., Mavers, et al
2021; 131 (8)
- **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
- **Activation of natural killer T cells enhances the function of regulatory T-cell therapy in suppressing murine GVHD.** *Blood advances*
Hirai, T., Lin, P. Y., Simonetta, F., Maas-Bauer, K., Turkoz, M., Mavers, M., Baker, J., Negrin, R. S.
2021; 5 (11): 2528-2538
- **Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET.** *Clinical cancer research : an official journal of the American Association for Cancer Research*
Simonetta, F., Alam, I. S., Lohmeyer, J. K., Sahaf, B., Good, Z., Chen, W., Xiao, Z., Hirai, T., Scheller, L., Engels, P., Vermesh, O., Robinson, E., Haywood, et al
2020
- **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
- **Visualization of activated T cells by OX40-immunoPET as a strategy for diagnosis of acute Graft-versus-Host-Disease.** *Cancer research*
Alam, I. S., Simonetta, F., Scheller, L., Mayer, A. T., Murty, S., Vermesh, O., Nobashi, T. W., Lohmeyer, J. K., Hirai, T., Baker, J., Lau, K. H., Negrin, R., Gambhir, et al
2020
- **MicroRNA-146a regulates immune-related adverse events caused by immune checkpoint inhibitors.** *JCI insight*
Marschner, D., Falk, M., Javorniczky, N. R., Hanke-Muller, K., Rawluk, J., Schmitt-Graeff, A., Simonetta, F., Haring, E., Dicks, S., Ku, M., Duquesne, S., Aumann, K., Rafei-Shamsabadi, et al
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
- **Engineered IL-2 Cytokine-Cytokine Receptor Complex Enables Selective Expansion of Regulatory T Cells and Facilitates Establishment of Organ Transplantation Tolerance**
Hirai, T., Simonetta, F., Su, L. L., Picton, L., Baker, J., Seo, K., Lohmeyer, J., Mavers, M., Blazar, B. R., Garcia, C., Negrin, R. S.
ELSEVIER SCIENCE INC.2020: S59–S60
- **Allogeneic Chimeric Antigen Receptor-Invariant Natural Killer T Cells Exert Both Direct and Indirect Antitumor Effects through Host CD8 T Cell Cross-Priming**
Simonetta, F., Hirai, T., Lohmeyer, F., Maas-Bauer, K., Alvarez, M., Wenokur, A., Baker, J., Aalipour, A., Haile, S., Mackall, C. L., Negrin, R. S.
ELSEVIER SCIENCE INC.2020: S42
- **High-Parametric Evaluation of Human Invariant Natural Killer T Cells to Delineate Heterogeneity in Allo- and Autoimmunity.** *Blood*
Erkers, T., Xie, B., Kenyon, L. J., Smith, B., Rieck, M., Jensen, K. P., Ji, X., Basina, M., Strober, S., Negrin, R. S., Maecker, H. T., Meyer, E.
2020
- **Autologous tumor cell vaccine induces antitumor T cell immune responses in patients with mantle cell lymphoma: A phase I/II trial.** *The Journal of experimental medicine*
Frank, M. J., Khodadoust, M. S., Czerwinski, D. K., Haabeth, O. A., Chu, M. P., Miklos, D. B., Advani, R. H., Alizadeh, A. A., Gupta, N. K., Maeda, L. S., Reddy, S. A., Laport, G. G., Meyer, et al
2020; 217 (9)
- **Molecular Imaging of Chimeric Antigen Receptor T Cells by ICOS-ImmunoPET** *Clinical cancer research: an official journal of the American Association for Cancer Research*
Alam*, I. S., Simonetta*, F.
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