Stanford



# Alice Bertaina MD, PhD

Lorry I. Lokey Professor

Pediatrics - Stem Cell Transplantation

Curriculum Vitae available Online


**CLINICAL OFFICE (PRIMARY)**

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**ACADEMIC CONTACT INFORMATION**

- **Administrative Associate**

  Elizabeth Alarcon

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## Bio

### BIO

Dr. Alice Bertaina completed her MD degree at the University of Pavia in Italy, her fellowship in hematopoietic stem cell transplantation (HSCT) at the Bambino Gesù Children's Hospital in Rome, and her PhD degree in Immunology and Biotechnology at Tor Vergata University in Rome. Until joining Stanford University in 2017, she was Head of the Stem Cell Transplant Unit in the Department of Hematology and Oncology at the Bambino Gesù Children's Hospital in Rome (this institution currently has the largest number of children transplanted with hematopoietic progenitors/stem cells in Europe).

Dr. Bertaina is an expert in the field of allogeneic HSCT in pediatric patients affected by hematological malignancies or nonmalignant disorders. In particular, she has pioneered the novel approach of graft manipulation based on the physical elimination of alfa/beta T cells and B cells. Dr. Bertaina has excellent clinical and biological expertise, as demonstrated by her publications in the field of pediatric hematology and oncology. Moreover, she is expert in different aspects of immunological reconstitution of children given an allograft of hematopoietic stem cell, paying particular attention to innate immunity.

### CLINICAL FOCUS

- Pediatric Stem Cell Transplantation
- Graft engineering
- Pediatric Hematology-Oncology

### ACADEMIC APPOINTMENTS

- Professor-Univ Med Line, Pediatrics - Stem Cell Transplantation
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Medicine Children's Health Center for IBD and Celiac Disease
- Member, Stanford Cancer Institute

## ADMINISTRATIVE APPOINTMENTS

- Co-Director, Bass Center for Childhood Cancer and Blood Diseaeses, Lucile Packard Children's Hospital, Stanford University, CA, USA, (2020-present)
- Section Chief, Stem Cell Transplant and Regenerative Medicine, Lucile Packard Children's Hospital, Stanford University, CA, USA, (2020- present)
- Medical Director of Inpatient Services, Lucile Packard Children's Hospital, Stanford University, CA, USA, (2019- present)
- Head of Stem Cell Transplant Unit, Department of Hematology and Oncology, Bambino Gesù Children's Hospital Rome, Italy, (2013-2017)
- Physician Assistant and Researcher, Department of Hematology and Oncology, Bambino Gesù Children's Hospital, Rome, Italy, (2010-2013)
- Residency in Pediatrics, Pediatric Hematology and Oncology, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy, (2008-2010)
- Medical and Research Fellowship, Department of Pediatrics, Fondazione IRCCS Policlinico San Matteo, Pavia, Italy, (2004-2008)

## HONORS AND AWARDS

- Lorry Lokey Faculty Scholar, Stanford University School of Medicine (2019-)
- Press release 'alfa/beta T-cell depleted haplo-transplant in children with acute leukemia', 55th ASH Meeting, Engineering Cell Therapies Press Program, New Orleans (December 2013)
- Abstract Travel Award 'Identification of deregulated microRNAs in JMML', 2016 International JMML Symposium, San Diego (December 2016)
- Invited to participate in the Annual National Ceremony for Cancer Research, Palazzo del Quirinale, By Invitation from the President of the Italian Republic (October 2015)

## BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member, ISCT Stem Cell Engineering Committee (2020 - present)
- Member, Child Health Research Institute Stanford (CHRI) (2017 - present)
- Member, Italian Group for Bone Marrow Transplantation (2017 - present)
- Chair, Paediatric transplantation Session, EBMT 43 rd Annual Meeting, Marseille, France, March 26-29, 2017 (2017 - 2017)
- Member, GITMO project entitled '3 Steps', aiming at defining strategies of prophylaxis and treatment of veno-occlusive disease in transplant recipients (2016 - present)
- Member, Inborn Errors Working Group, EBMT. (2016 - present)
- Peer Reviewed Journal Reviewer, Blood Clinical Cancer Research Frontiers in Immunology BBMT BMT Oncoimmunology Haematologica (2016 - present)
- Peer Reviewed Journal Reviewer, Bone Marrow Transplantation (2015 - present)
- Head, HSCT Working Party Group of AIEOP (Italian Association of Pediatric Hematology and Oncology) (2015 - 2017)
- Board Member, EBMT PDWP (European Society for Blood and Marrow Transplantation Pediatric Disease Working Party) (2014 - 2017)
- Member, American Society of Hematology (2013 - present)
- Member, Comitato per il Controllo delle Infezioni Ospedalerie (CCIO) at the OPBG, Rome (2011 - 2017)
- Member, Associazione Italiana di Ematologia ed Oncaologia Pediatrics (2010 - present)
- Member, European Society for Blood and Marrow Transplantation (2010 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Internal Medicine, Ordine dei Medici Chirurghi e degli Odontoiatri della provincial di Pavia (2006)
- Fellowship: Ospedale Bambino Gesu' (2013) Italy
- Residency: University of Pavia (2010) Italy
- Medical Education: University of Pavia (2005) Italy
- PhD, Tor Vergata University , Immunology and Biotechnology (2013)
- Residency in Pediatrics, University of Pavia, Pavia, Italy , Thesis title: "NK-alloreactivity and outcome of pediatric patients with acute leukemia given an HLA-haploidentical stem cell transplantation" under Prof. Franco Locatelli supervision (2010)

- Post-graduate fellowship, Bambino Gesù Children's Hospital, Rome, Italy , Hematopoietic Stem Cell Transplantation (basic and applied research) (2010)
- Medical Degree, University of Pavia, Pavia, Italy , Thesis title: "Human Metapneumovirus II in acute pediatric respiratory infection: epidemiology, clinical picture and diagnosis" (2005)

## Research & Scholarship

### CURRENT RESEARCH AND SCHOLARLY INTERESTS

Dr. Bertaina is a highly experienced clinician and will play a key role in supporting Section Chief Dr. Rajni Agarwal and Clinical Staff in the Stem Cell Transplant Unit at Lucile Packard Children's Hospital. She will also continue her research on immune recovery and miRNA, understanding the mechanisms underlying immune reconstitution, Graft-versus-Host Disease (GvHD), and leukemia relapse after allogeneic HSCT in pediatric patients affected by hematological malignant and non-malignant disorders.

### CLINICAL TRIALS

- DFT383 in Pediatric Participants With Nephropathic Cystinosis, Recruiting
- Early Trial of Allogeneic Hematopoietic Stem Cell Transplantation for Patients Who Will Receive a Kidney Transplant From the Same Donor, Recruiting
- Gene Correction in Autologous CD34+ Hematopoietic Stem Cells (HbS to HbA) to Treat Severe Sickle Cell Disease, Recruiting
- Stem Cell Transplant From Donors After Alpha Beta Cell Depletion in Children and Adults With T-allo10 Cells Addback, Recruiting
- Stem Cell Transplant From Donors After Alpha Beta Cell Depletion in Children and Young Adults, Recruiting
- BPX-501 T Cells Infused Post Stem Cell Transplant in Pediatrics With Non-Malignant Disorders Ineligible for BPU004 Study, Not Recruiting
- KIR Favorable Mismatched Haplo Transplant and KIR Polymorphism in ALL/AML/MDS Allo-HCT Children, Not Recruiting
- Safety Study of Gene Modified Donor T-cells Following TCRαβ+ Depleted Stem Cell Transplant, Not Recruiting
- Use of T-allo10 in Hematopoietic Stem Cell Transplantation (HSCT) for Blood Disorders, Not Recruiting
- Study of GDX012 in Patients With MRD Positive AML, Not Specified

## Teaching

### STANFORD ADVISEES

**Postdoctoral Faculty Sponsor**

Eric Russ, Wenjun Wang

## Publications

### PUBLICATIONS

- **Rescue therapy of paediatric lupus nephritis with plasma cell-directed antibodies.** *Annals of the rheumatic diseases*
  Kasinathan, S., Balboni, I. M., Hsu, J., Grimm, P. C., Yeung, J., Jackson, S. W., Robinson, W. H., Moyer, A., Bertaina, A., Alexander, J. L., Profita, E. L., Lee, J., Satpathy, et al
  2026
- **STAGE-SPECIFIC BM NICHE DETERIORATION AND HSPC DYSFUNCTION IN FANCONI ANEMIA: IMPLICATIONS FOR BONE MARROW FAILURE AND HEMATOLOGIC DISEASE**
  Soco, C., Chan, Y., Sen, S., Willner, H., Klinger, E., Nofal, R., Singh, M., Parkman, R., Roncarolo, M., Weinberg, K., Porteus, M., Bertaina, A., Argawal, et al
  ELSEVIER SCIENCE INC.2026
- **Gene therapy for sickle cell disease: early lessons, enduring questions.** *Cytotherapy*
  Bertaina, A., Shyr, D.
  2026; 28 (10): 102979

- **Can we eliminate TBI/Busulfan and GVHD in Fanconi anemia transplantation? Results from a prospective haploidentical transplant approach**
  Bertaina, A., Czechowicz, A., Hiroshima, L., Kunte, N., Klinger, E., Saini, G., John, T., Alexander, J., Shyr, D., Shah, A., Klein, O., Boyel, J., Boelens, et al
  SPRINGERNATURE.2026: 122-123

- **Begelomab (BEGESAND®) Salvages Steroid-Resistant Acute GVHD in Pediatric Patients.** *Journal of clinical medicine*
  Shyr, D., Chirieleison, S. M., Fernandez-Pol, S., Weinacht, K., Agarwal, R., Shah, A. J., Spinelli, M., Palmieri, R., Di Naro, A. F., Bertaina, A.
  2026; 15 (11)

- **DETERMINANTS OF THYMIC RECOVERY AFTER PEDIATRIC ALLOGENEIC HCT: A LARGE MULTICENTER IMPACT CONSORTIUM ANALYSIS**
  Velardi, E., Mcavoy, D., Kunstek, H., Barbarito, G., Taviani, A., Galaverna, F., Klein, E., Lucas, A., de Koning, C., Hosszu, K., Bertaina, A., Nierkens, S., Locatelli, et al
  ELSEVIER SCI LTD.2026

- **QUAIL-100 INDUCES DURABLE, DISTINCT, MULTIFUNCTIONAL GDT CELL RESPONSES SUPERIOR TO ZOLEDRONIC ACID FOR POST-HSCT IMMUNOTHERAPY**
  Wang, W., Limaye, A., Barbarito, G., Klein, O., Troupin, B., Hawes, I. H., Rae, C., Parkman, R., Kotula, J., Bertaina, A.
  ELSEVIER SCI LTD.2026

- **Half-Matched Comes at What Cost?: A Cohort Cost Analysis of the PTCTC ONC1401 Trial Utilizing the Pediatric Health Systems Information (PHIS) Database**
  Johnson, A. K., Xie, Y., Li, Y., Huang, Y., Berghuijs, V. K., Talano, J., van Kitko, C., Chaudhury, S., Dvorak, C., Lalefar, N., Bunin, N., Kapoor, N., Anderson, et al
  WILEY.2026: S226

- **Impact of acute GvHD severity on survival and disease relapse in pediatric patients undergoing allogeneic stem cell transplantation for acute lymphoblastic leukemia: an analysis based on the EBMT-PDWP registry.** *Bone marrow transplantation*
  Szmit, Z., Lucchini, G., Bertaina, A., Galimard, J. E., Dalle, J. H., Locatelli, F., Taskinen, M., Mirci-Danicar, O., Sedlacek, P., Balduzzi, A., Ghemlas, I., Styczynski, J., Kitra-Roussou, et al
  2026

- **Model-Based ATG Dosing Optimization in Ab Haplo-HSCT: Improved Pre-HSCT Exposure Consistency and Viral Infection Analysis**
  Shyr, D. C., Hiroshima, L., John, T. D., Barbarito, G., Agarwal, R., Alexander, J. L., Shah, A. J., Li, T., Chang, I., Arreola, V., Boelens, J., Bertaina, A.
  ELSEVIER SCIENCE INC.2026

- **Role of BM and PB Next Generation Sequencing (NGS) MRD Vs. BM Multichannel Flow Cytometry (MFC) MRD Pre/Post-Allogeneic HCT in Predicting Outcomes for Children and Young Adults (CAYA) with B-ALL: Planned Analysis of the Ptctc ONC1401 Trial**
  Johnson, A. K., Zhao, Y., Qiao, X., Dolan, G., Berghuijs, K., Talano, J. A., Kitko, C. L., Chaudhury, S., Dvorak, C. C., Lalefar, N., Bunin, N. J., Kapoor, N., Anderson, et al
  ELSEVIER SCIENCE INC.2026: S106-S101

- **T-allo10 Cell Addback Post-Abdepleted-HSCT Drives Lasting Leukemia-Free Survival with Distinct Immune Regulation Biomarkers**
  Bertaina, A., Bacchetta, R., Shyr, D. C., Saini, G., Lee, J., Agarwal, R., Klein, O. R., Wang, G., Margittai-Gotesman, D., Al Dakheel, A., Barbarito, G., Oppizzi, L., Limaye, et al
  ELSEVIER SCIENCE INC.2026: S99

- **Interplay between acute graft-versus-host disease and graft-versus-leukemia effect in pediatric acute myeloid leukemia patients undergoing allogeneic hematopoietic stem cell transplantation: implications for relapse incidence and survival - an EBMT PDWP retrospective study.** *Bone marrow transplantation*
  Bertaina, A., Maffeis, M., Lucchini, G., Galimard, J. E., Dalissier, A., Kleinschmidt, K., Ansari, M., Benakli, M., Mirci-Danicar, O. C., Pagliara, D., Dalle, J. H., Al Ahmari, A., Skorobogatova, et al
  2025

- **Novel humanized loss-of-function NF1 mouse model of juvenile myelomonocytic leukemia.** *Blood advances*
  Sinha, R., Patil, R. V., Romano, R., Sharma, D., Lee, E., Perriman, R., Takeda, S., Lesch, B. J., Yao, Z., Liu, Y. L., Cromer, M. K., Porteus, M. H., Bertaina, et al
  2025

- **THERAPEUTIC DOSES OF T-ALLO10 IMMUNOTHERAPY POST-ABDEPLETED HSCT ENHANCE IMMUNE RECONSTITUTION AND ACHIEVE 100% LEUKEMIA-FREE SURVIVAL IN PEDIATRIC AND YOUNG ADULT PATIENTS WITH HEMATOLOGIC MALIGNANCIES**

Bertaina, A., Bacchetta, R., Cepika, A., Shyr, D., Barbarito, G., Oppizzi, L., Chen, P., Saini, G., Lee, J., Kristovich, K., Agarwal, R., Klein, O., Melsop, et al

SPRINGERNATURE.2025: 74-75

- **PREDICTORS FOR THYMIC RECONSTITUTION AFTER PEDIATRIC AND YOUNG ADULT HCT: A MULTICENTER ANALYSIS**

  Velardi, E., McAvoy, D., Kunstek, H., Barbarito, G., Taviani, A., Galaverna, F., Klein, E., Lucas, A., de Koning, C., Hosszu, K., Bertaina, A., Nierkens, S., Locatelli, et al

  SPRINGERNATURE.2025: 666-667

- **PROTECTIVE ROLE OF NAIVE VD2 GD T-CELL AGAINST RELAPSE IN ABHAPLO-HSCT**

  Barbarito, G., Louis, D. M., Oppizzi, L., Chang, I., Yuan, M., Takeda, S., Parkman, R., Bertaina, A.

  SPRINGERNATURE.2025: 667-668

- **DISTINCT IMMUNE RECONSTITUTION PATTERNS CORRELATE WITH OUTCOMES FOLLOWING PEDIATRIC AB T-CELL/CD19 B-CELL DEPLETED HAPLOIDENTICAL HSCT**

  Oppizzi, L., Barbarito, G., Limaye, A., Chang, I., Yuan, M., Weinberg, K., Parkman, R., Bertaina, A.

  SPRINGERNATURE.2025: 670-671

- **Pre-transplant CAR T-cell therapy is associated with inferior survival and increased non-relapse mortality in pediatric B-ALL: A single-center retrospective analysis**

  Chok, R., Huang, M., Aftandilian, C., Schultz, L., Shyr, D., Lacayo, N., Shah, A., Saab, R., Gruber, T., Mackall, C., Bertaina, A., Davis, K., Klein, et al

  ELSEVIER.2025: 6077-6078

- **Hematopoietic stem cell transplantation using briquilimab (Anti-CD117 Antibody-Conditioning), immunosuppression and TCRαβ+ T-cell/ CD19+B-cell depleted haploidentical grafts in patients with fanconi anemia: An approach without irradiation, busulfan and calcineurin inhibitors.**

  Agarwal, R., Bertaina, A., Soco, C., Long-Boyle, J., Saini, G., Kunte, N., Hiroshima, L., Chan, Y., Willner, H., Krampf, M., Van Hentenryck, M., Perriman, R., Istomina, et al

  ELSEVIER.2025: 2432-2433

- **ALLOGENEIC TRANSPLANTATION: DISEASE RESPONSE AND COMPARATIVE TREATMENT STUDIES**

  Johnson, A., Zhao, Y., Qiao, X., Dolan, J., Berghuijs, K., Talano, J., Kitko, C., Chaudhury, S., Dvorak, C., Lalefar, N., Bunin, N., Kapoor, N., Anderson, et al

  ELSEVIER.2025: 511-512

- **Harmonized Immune Recovery Monitoring after HCT: Evidence & Practical Guidance from the Westhafen Intercontinental Group.** *Blood advances*

  Hammoudi, T., Nucera, S., Troullioud Lucas, A. G., Ansari, M., Balduzzi, A. C., Bertaina, A., Buechner, J., Corbacioglu, S., Dalle, J. H., Kałwak, K., Lee, D. A., Levine, J. E., Lindemans, et al

  2025

- **Irradiation- and busulfan-free stem cell transplantation in Fanconi anemia using an anti-CD117 antibody: a phase 1b trial.** *Nature medicine*

  Agarwal, R., Bertaina, A., Soco, C., Long-Boyle, J. R., Saini, G., Kunte, N., Hiroshima, L., Chan, Y. Y., Willner, H., Krampf, M. R., Nofal, R., Barbarito, G., Sen, et al

  2025

- **Navigating Challenges of aGvHD Predictive Biomarkers in αβhaplo-HSCT Recipients: Still Waiting for MAGIC to Happen.** *Immunology letters*

  Montiel-Esparza, R., Hawes, I., Perriman, R., Barbarito, G., Oppizzi, L., Shyr, D., Kent, L., Yao, Z., Bertaina, A.

  2025: 107062

- **Immune Monitoring after Cell Therapy and Hematopoietic Cell Transplantation: Guidelines by the ISCT Stem Cell Engineering Committee.** *Cytotherapy*

  Oppizzi, L., Hosszu, K., Prockop, S., Bidgoli, A., Bonfim, C., Ciccocioppo, R., Ruggeri, A., Maiers, M., Bertaina, A., Boelens, J. J.

  2025

- **IMPACT OF AGE AND ACUTE GVHD ON THYMIC RECONSTITUTION POST-HCT: INSIGHTS FROM MULTICENTER IMMUNE MONITORING OF PEDIATRIC AND YOUNG ADULT PATIENTS**

  Mcavoy, D., Velardi, E., Kunstek, H., Barbarito, G., Taviani, A., Galaverna, F., Klein, E., Lucas, A., de Koning, C., Hosszu, K., Bertaina, A., Nierkens, S., Boelens, et al

  ELSEVIER SCI LTD.2025

- **Targeted Delivery of Mesenchymal Stromal Cells (MSCs) for Refractory Gastrointestinal Graft-versus-Host Disease after allogeneic hematopoietic stem cell transplantation (HSCT): A Novel Intraarterial Approach**
  Alexander, J., John, T., Shyr, D. C., Callard, E., Klein, O., Asistores, C., Hiroshima, L., Chok, R., Siddiqui, A., McLeod, M., Saini, G., Goodwin, E., Wolf, et al
  ELSEVIER SCI LTD.2025

- **SPECIFIC IMMUNE RECONSTITUTION TRENDS PREDICT OUTCOMES FOLLOWING PEDIATRIC ab T-CELL/CD19 B-CELL DEPLETED HAPLOIDENTICAL HSCT**
  Oppizzi, L., Barbarito, G., Limaye, A., Chang, I., Yuan, M., Yao, Z., Weinberg, K., Parkman, R., Bertaina, A.
  ELSEVIER SCI LTD.2025

- **Restrictive Defibrotide Prophylaxis Guidelines Decrease Expenditure and Do Not Affect Clinical Outcomes in Pediatric Patients at High Risk of VenoOcclusive Disease**
  Hiroshima, L., Chok, R., Asistores, C., Boehlke, K., Chong, A., Klein, O. R., Bertaina, A., Shyr, D. C.
  ELSEVIER SCIENCE INC.2025: S544-S545

- **Meeting Report: The Sixth International Sam Strober Workshop on Clinical Immune Tolerance.** *Transplantation*
  Stark, H., Ho, Q. Y., Cross, A., Alessandrini, A., Bertaina, A., Brennan, D., Busque, S., Demetris, A., Devey, L., Fruhwirth, G., Fuchs, E., Friend, P., Geissler, et al
  2025

- **Evaluation of Bone Marrow in Fanconi Anemia Patients Treated with Briquilimab Antibody-Based Conditioning and TCRαβ<SUP>+</SUP> T-Cell/CD19<SUP>+</SUP> B-Cell Depleted Haploidentical Grafts**
  Soco, C., Krampf, M. R., Chan, Y., Hoang, H., Kunte, N., Saini, G., Weinberg, K. I., Parkman, R., Bertaina, A., Agarwal, R., Porteus, M., Czechowicz, A. D.
  ELSEVIER.2024: 2015-2016

- **T-allo10 Immunotherapy Results in Enhanced Early Immune Reconstitution and Reduced GvHD with Excellent Clinical Outcomes Post Aβ-Depleted HSCT in Pediatric and Young Adult Hematologic Malignancy Patients**
  Bertaina, A., Bacchetta, R., Cepika, A., Shyr, D. C., Barbarito, G., Oppizzi, L., Chen, P., Saini, G., Lee, J., Kristovich, K., Agarwal, R., Klein, O., Melsop, et al
  ELSEVIER.2024: 3525-3526

- **Effect of Rabbit ATG PK on Outcomes after TCR-αβ/CD19-depleted Pediatric Haploidentical HCT for Hematologic Malignancy.** *Blood advances*
  Dvorak, C. C., Long-Boyle, J. R., Holbrook-Brown, L., Abdel-Azim, H., Bertaina, A., Vatsayan, A., Talano, J. A., Bunin, N. J., Anderson, E. J., Flower, A., Lalefar, N. R., Higham, C. S., Kapoor, et al
  2024

- **International Society for Cell & Gene Therapy Stem Cell Engineering Committee report on the current state of hematopoietic stem and progenitor cell-based genomic therapies and the challenges faced.** *Cytotherapy*
  Gupta, A. O., Azul, M., Bhoopalan, S. V., Abraham, A., Bertaina, A., Bidgoli, A., Bonfim, C., DeZern, A., Li, J., Louis, C. U., Purtill, D., Ruggeri, A., Boelens, et al
  2024

- **GENETIC ENGINEERING OF GAMMA DELTA (118)T CELLS WITH THE IL-2 CYTOKINE RECEPTOR ORTHOGONAL PAIR (OIL-2R/OIL-2) AS IMMUNOTHERAPY FOR PEDIATRIC ACUTE MYELOID LEUKEMIA (AML)**
  Wang, W., Barbarito, G., Su, L., Yao, Z., Bertaina, A.
  ELSEVIER SCI LTD.2024: S13-S14

- **Model based ATG in αβhaplo-HSCT facilitates engraftment, expedites T-cell recovery, and mitigates the risk of acute GvHD.** *Transplantation and cellular therapy*
  Giulia, B., Lyndsie, H., Linda, O., Gopin, S., Karen, K., Orly, K., Kinga, H., Kylan, B., Aditi, G., Devin, M., David, S., Jan, B. J., Alice, et al
  2024

- **Extracellular release of mitochondria induced by pre-hematopoietic stem cell transplant conditioning exacerbates GVHD.** *Blood advances*
  Vijayan, V., Yan, H., Lohmeyer, J. K., Prentiss, K. A., Patil, R. V., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N. P., Bertaina, A., Negrin, et al
  2024

- **Molecular and functional identification of unstable regulatory and autoreactive effector T cells that are expanded in patients with FOXP3 mutation**

Borna, S., Lee, E., Nideffer, J., Ramachandran, A., Wang, B., Mavers, M., Narula, M., Garrett, A., Schulze, J., Marois, L., Gernez, Y., Bathia, M., Chong, et al

ACADEMIC PRESS INC ELSEVIER SCIENCE.2024

- **Advancements in γδT cell engineering: paving the way for enhanced cancer immunotherapy.** *Frontiers in immunology*
  Yuan, M., Wang, W., Hawes, I., Han, J., Yao, Z., Bertaina, A.
  2024; 15: 1360237

- **Vaccine Associated Measles Complicated by Suspected Measles Inclusion Body Encephalitis in a Pediatric Leukemia Patient and Stem Cell Transplant Recipient: A Focus on Clinical Evolution and Management.** *The Pediatric infectious disease journal*
  Kushner, L. E., Kamens, J., Bertaina, A., Shyr, D., Gans, H. A.
  2024

- **Strategic infection prevention after genetically modified hematopoietic stem cell therapies: recommendations from the International Society for Cell & Gene Therapy Stem Cell Engineering Committee.** *Cytotherapy*
  John, T. D., Maron, G., Abraham, A., Bertaina, A., Bhoopalan, S. V., Bidgoli, A., Bonfim, C., Coleman, Z., DeZern, A., Li, J., Louis, C., Oved, J., Pavel-Dinu, et al
  2024

- **Identification of unstable regulatory and autoreactive effector T cells that are expanded in patients with FOXP3 mutations.** *Science translational medicine*
  Borna, Š., Lee, E., Nideffer, J., Ramachandran, A., Wang, B., Baker, J., Mavers, M., Lakshmanan, U., Narula, M., Garrett, A. K., Schulze, J., Olek, S., Marois, et al
  2023; 15 (727): eadg6822

- **Stem cell transplantation for ALL: you've always got a donor, why not always use it?** *Hematology. American Society of Hematology. Education Program*
  Shyr, D., Davis, K. L., Bertaina, A.
  2023; 2023 (1): 84-90

- **Engineering the best transplant outcome for high-risk acute myeloid leukemia: the donor, the graft and beyond.** *Cytotherapy*
  Belbachir, S., Abraham, A., Sharma, A., Prockop, S., DeZern, A. E., Bonfim, C., Bidgoli, A., Li, J., Ruggeri, A., Bertaina, A., Boelens, J. J., Purtill, D.
  2023

- **Longitudinal Clinical Data Improves Survival Prediction after Hematopoietic Cell Transplantation Using Machine Learning.** *Blood advances*
  Zhou, Y., Smith, J., Keerthi, D., Li, C., Sun, Y., Mothi, S. S., Shyr, D., Spitzer, B., Harris, A. C., Chatterjee, A., Chatterjee, S., Shouval, R., Naik, et al
  2023

- **Radiation and Busulfan-Free Hematopoietic Stem Cell Transplantation Using Briquilimab (JSP191) Anti-CD117 Antibody-Conditioning, Transient Immunosuppression and TCR α β + 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

- **Towards Automated Engineering of Donor-Derived T Lymphocytes into CRISPR/Cas9-Mediated CAR T Cells in a Closed-System**
  Oseghale, A., Bertaina, A., Porteus, M.
  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

- **Extracellular Release of Damaged Mitochondria Induced By Cytotoxic Conditioning Exacerbates Graft-Versus-Host Disease**
  Vijayan, V., Yan, H., Lohmeyer, J., Prentiss, K., Patil, R., Barbarito, G., Lopez, I., Elezaby, A., Peterson, K., Baker, J., Ostberg, N., Bertaina, A., Negrin, et al
  AMER SOC HEMATOLOGY.2023

- **T-ALLO10 INFUSION AFTER A.DEPLETED-HSCT IN CHILDREN AND YOUNG ADULTS WITH HEMATOLOGIC MALIGNANCIES: IMPROVED IMMUNE RECONSTITUTION IN THE ABSENCE OF SEVERE GVHD**
  Bertaina, A., Bacchetta, R., Shyr, D., Saini, G., Lee, J., Kristovich, K., Agarwal-Hashmi, R., Klein, O., Melsop, K., Tate, K., Barbarito, G., Oppizzi, L., Chen, et al

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  Bertaina, A., Bacchetta, R., Shyr, D. C., Saini, G., Lee, J., Kristovich, K., Agarwal, R., Klein, O., Melsop, K., Tate, K., Barbarito, G., Oppizzi, L., Chen, et al
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