



## Alice Bertaina MD, PhD

Associate Professor of Pediatrics (Stem Cell Transplantation)

Pediatrics - Stem Cell Transplantation

 Curriculum Vitae available Online

### CLINICAL OFFICES

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### ACADEMIC CONTACT INFORMATION

#### • Administrative Associate

Elizabeth Alarcon

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### Bio

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#### 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 alpha/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

- Associate Professor - University Medical Line, Pediatrics - Stem Cell Transplantation
- Member, Bio-X
- Member, Maternal & Child Health Research Institute (MCHRI)
- Member, Stanford Cancer Institute

#### ADMINISTRATIVE APPOINTMENTS

- Co-Director, Bass Center for Childhood Cancer and Blood Diseases, 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 Ospedaliere (CCIO) at the OPBG, Rome (2011 - 2017)
- Member, Associazione Italiana di Ematologia ed Oncologia Pediatrica (2010 - present)
- Member, European Society for Blood and Marrow Transplantation (2010 - present)

## PROFESSIONAL EDUCATION

- Board Certification: Medicine, Ordine dei Medici Chirurghi e degli Odontoiatri della provincial di Pavia (2006)
- Fellowship: Ospedale Bambino Gesù' (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

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### 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

- KIR Favorable Mismatched Haplo Transplant and KIR Polymorphism in ALL/AML/MDS Allo-HCT Children, Recruiting
- Stem Cell Transplant From Donors After Alpha Beta Cell Depletion in Children and Young Adults, Recruiting
- Safety Study of Gene Modified Donor T-cells Following TCR Alpha Beta Depleted Stem Cell Transplant, Not Recruiting
- Stem Cell Transplant From Donors After Alpha Beta Cell Depletion in Children and Adults With T-allo10 Cells Addback, Not Recruiting
- Study of GDX012 in Patients With MRD Positive AML, Not Recruiting
- US Phase I Study of ECT-001-CB in Patients With Sickle-Cell Disease, Not Recruiting

## Teaching

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### STANFORD ADVISEES

#### Postdoctoral Faculty Sponsor

Junwen Han, Roshani Sinha, Wenjun Wang

#### Postdoctoral Research Mentor

Matthias Felber

## Publications

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### PUBLICATIONS

- **Sequential Stem Cell-Kidney Transplantation in Schimke Immuno-osseous Dysplasia.** *The New England journal of medicine*  
Bertaina, A., Grimm, P. C., Weinberg, K., Parkman, R., Kristovich, K. M., Barbarito, G., Lippner, E., Dhamdhare, G., Ramachandran, V., Spatz, J. M., Fathallah-Shaykh, S., Atkinson, T. P., Al-Uzri, et al  
2022; 386 (24): 2295-2302
- **Viral infection in hematopoietic stem cell transplantation: an International Society for Cell & Gene Therapy Stem Cell Engineering Committee review on the role of cellular therapy in prevention and treatment.** *Cytotherapy*  
Stanojevic, M., Bertaina, A., Bonfim, C., Ciccocioppo, R., Cohen, S., Purtill, D., Ruggieri, A., Russell, A., Sharma, A., Wynn, R., Boelens, J. J., Prockop, S., Abraham, et al  
2022
- **Role of Cytokine Secretion Signatures of Donor-derived T Cells and Recipient Serum Cytokine Profiles as Predictive Biomarkers of Acute Graft-Versus-Host Disease in alpha beta T-cell/CD19 B-cell Depleted Hematopoietic Stem Cell Transplant Pediatric Recipients**  
Montiel-Esparza, R., Barbarito, G., Patil, R., Shyr, D., Saini, G., Parkman, R., Liu, Y., Bertaina, A.  
WILEY.2022
- **POTENTIAL BIOMARKERS OF ACUTE GVHD IN ALPHA/BETA T-CELL/B-CELL DEPLETED HSCT PEDIATRIC RECIPIENTS**  
Montiel-Esparza, R., Barbarito, G., Patil, R., Parkman, R., Liu, Y., Bertaina, A.  
WILEY.2022
- **BENCH TO BEDSIDE: ENGINEERED AUTOLOGOUS CD4(LVFOXP3) TREG-LIKE CELL PRODUCT FOR PHASE 1 STUDY IN PATIENTS WITH IPEX SYNDROME**  
Nathan, A., Sato, Y., Tate, K., Wani, P., Terry, C., Fazeli, F., Bouge, A., Goodwin, E., Wright, J., Bertaina, A., Klein, O., Agarwal, R., Roncarolo, et al

ELSEVIER SCI LTD.2022: S144

- **Matching beyond the HLA name: A new classification of HLA-allele mismatches based on peptide binding profile**  
Osoegawa, K., Cunanan, K., Spellman, S., Bertaina, A., Fernandez-Vina, M. A.  
WILEY.2022: 436
- **INVESTIGATION APPROACH TO IMPROVE PURITY IN DEPLETED CELLULAR THERAPY PRODUCTS**  
Pham, T., Sukle, N., McLeod, M. G., Beltran, J., Kim, Y., Habib, M., Patel, S., Amiri, Z., Kim, J., Bertaina, A., McIntyre, C.  
ELSEVIER SCI LTD.2022: S192
- **Volumetric modulated arc therapy total body irradiation in pediatric and adolescent/young adult patients undergoing stem cell transplantation: Early outcomes and toxicities.** *Pediatric blood & cancer*  
Marquez, C., Hui, C., Simiele, E., Blomain, E., Oh, J., Bertaina, A., Klein, O., Shyr, D., Jiang, A., Hoppe, R. T., Kovalchuk, N., Hiniker, S. M.  
2022: e29689
- **Loss of Treg identity in IPEX patients is associated with increase autoreactivity in Teff cells**  
Borna, S., Lee, E., Lakshmanan, U., Narula, M., Schulze, J., Ramachandran, A., Bertaina, A., Meffre, E., Maria, R., Bacchetta, R.  
SPRINGER/PLENUM PUBLISHERS.2022: S78-S79
- **An ISCT Stem Cell Engineering Committee Position Statement on Immune Reconstitution: the importance of predictable and modifiable milestones of immune reconstitution to transplant outcomes.** *Cytotherapy*  
Bertaina, A., Abraham, A., Bonfim, C., Cohen, S., Purtill, D., Ruggeri, A., Weiss, D., Wynn, R., Boelens, J. J., Prockop, S., ISCT Committee on Stem Cell Engineering  
2022; 24 (4): 385-392
- **Sequential hematopoietic stem cell transplantation (HSCT) followed by kidney transplant-3 children who received ABT-cell/CD19 B-cell depleted HSCT followed by kidney transplant from same parental donor are rejection free and immunosuppression free with donor specific tolerance > 1year post kidney transplant**  
Grimm, P., Lewis, D. B., Al-Uzri, A., Fathallah-Shaykh, S., Shah, A., Agarwal, R., Weinberg, K. I., Gallo, A., Concepcion, W., Bertaina, A.  
WILEY.2022
- **Curative therapy for hemoglobinopathies: an International Society for Cell & Gene Therapy Stem Cell Engineering Committee review comparing outcomes, accessibility and cost of ex vivo stem cell gene therapy versus allogeneic hematopoietic stem cell transplantation.** *Cytotherapy*  
Leonard, A., Bertaina, A., Bonfim, C., Cohen, S., Prockop, S., Purtill, D., Russell, A., Boelens, J. J., Wynn, R., Ruggeri, A., Abraham, A.  
2021
- **Impact of Testicular Boost on Oncologic Outcomes and Late Effects in Pediatric Patients With Leukemia Receiving Fractionated Total Body Irradiation (TBI): A Single-Institution Experience.** *International journal of radiation oncology, biology, physics*  
Blomain, E., Jiang, A., Donaldson, S. S., Agarwal, R., Bertaina, A., Shyr, D., Shin, D. H., Hoppe, R. T., Hiniker, S. M.  
2021; 111 (3S): e177
- **Impact of Testicular Boost on Oncologic Outcomes and Late Effects in Pediatric Patients With Leukemia Receiving Fractionated Total Body Irradiation (TBI): A Single-Institution Experience**  
Blomain, E., Jiang, A., Donaldson, S. S., Agarwal, R., Bertaina, A., Shyr, D., Shin, D. H., Hoppe, R. T., Hiniker, S. M.  
ELSEVIER SCIENCE INC.2021: E177
- **Alloantigen-specific type 1 regulatory T cells suppress through CTLA-4 and PD-1 pathways and persist long-term in patients.** *Science translational medicine*  
Chen, P. P., Cepika, A., Agarwal-Hashmi, R., Saini, G., Uyeda, M. J., Louis, D. M., Cieniewicz, B., Narula, M., Amaya Hernandez, L. C., Harre, N., Xu, L., Thomas, B. C., Ji, et al  
2021; 13 (617): eabf5264
- **Impact of treosulfan exposure on early and long-term clinical outcome in pediatric allogeneic HSCT recipients: a prospective multicenter study.** *Transplantation and cellular therapy*  
van der Stoep, M. Y., Bertaina, A., Moes, D. J., Algeri, M., Bredius, R. G., Smiers, F. J., Berghuis, D., Buddingh, E. P., Mohseny, A. B., Guchelaar, H., Locatelli, F., Zwaveling, J., Lankester, et al  
2021
- **Outcomes of pediatric patients with therapy-related myeloid neoplasms.** *Bone marrow transplantation*  
Sharma, A., Huang, S., Li, Y., Brooke, R. J., Ahmed, I., Allewelt, H. B., Amrolia, P., Bertaina, A., Bhatt, N. S., Bierings, M. B., Bies, J., Brisset, C., Brondon, et al  
2021

- **Correction: Myeloablative conditioning for allo-HSCT in pediatric ALL: FTBI or chemotherapy?-A multicenter EBMT-PDWP study.** *Bone marrow transplantation*  
Willasch, A. M., Peters, C., Sedlacek, P., Dalle, J., Kitra-Roussou, V., Yesilipek, A., Wachowiak, J., Lankester, A., Prete, A., Hamidieh, A. A., Ifversen, M., Buechner, J., Krivan, et al  
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
- **SEQUENTIAL HEMATOPOIETIC STEM CELL AND KIDNEY TRANSPLANTATION IN SCHIMKE IMMUNO-OSSEOUS DYSPLASIA: TOWARDS A MODEL FOR ESTABLISHING FUNCTIONAL IMMUNE TOLERANCE FOR SOLID ORGAN TRANSPLANTATION**  
Bertaina, A., Grimm, P., Kristovich, K., Barbarito, G., Lippner, E., Fathallah-Shaykh, S., Al-Uzri, A., van der Elst, K., Agarwal, R., Selpicka, P., Shah, A., Weinberg, K., Parkman, et al  
ELSEVIER SCI LTD.2021: S136
- **Adoptively Transferred, In Vitro-Generated Alloantigen-Specific Type 1 Regulatory T (Tr1) Cells Persist Long-Term In Vivo**  
Cepika, A., Chen, P. P., Agarwal, R., Saini, G., Louis, D. M., Amaya-Hernandez, L. C., Xu, L., Shiraz, P., Tate, K. M., Margittai, D., Bhatia, N., Meyer, E., Bertaina, et al  
CELL PRESS.2021: 73
- **Preclinical Safety and Efficacy Validation of CD4(LVFOXP3) Cells as an Innovative Cell-Based Gene Therapy Approach for IPEX Syndrome**  
Sato, Y., Nathan, A., Wright, J., Tate, K., Wani, P., Fazeli, F., Timnak, A., Bhatia, N., Agarwal-Hashmi, R., Bertaina, A., Roncarolo, M., Bacchetta, R.  
CELL PRESS.2021: 340
- **Toxoplasmosis in Pediatric Hematopoietic Stem Cell Transplantation Patients.** *Transplantation and cellular therapy*  
Schwenk, H. T., Khan, A., Kohlman, K., Bertaina, A., Cho, S., Montoya, J. G., Contopoulos-Ioannidis, D. G.  
2021; 27 (4): 292-300
- **Response to Trimethoprim-Sulfamethoxazole in a Pediatric Hematopoietic Stem Cell Transplant Recipient With Disseminated Toxoplasmosis: A Case Report.** *Journal of the Pediatric Infectious Diseases Society*  
Khan, A., Schwenk, H. T., Kohlman, K., Bertaina, A., Cho, S., Montoya, J. G., Contopoulos-Ioannidis, D.  
2021
- **Toxoplasmosis Among 38,751 Hematopoietic Stem Cell Transplant Recipients: A Systematic Review of Disease Prevalence and a Compilation of Imaging and Autopsy Findings.** *Transplantation*  
Contopoulos-Ioannidis, D. G., Cho, S. M., Bertaina, A., Leung, A. N., Fischbein, N., Lanzman, B., Schwenk, H. T., Montoya, J. G.  
2021
- **TCR $\alpha\beta$ /CD19 depleted HSCT from an HLA-haploidentical relative to treat children with different non-malignant disorders.** *Blood advances*  
Merli, P., Pagliara, D., Galaverna, F., Li Pira, G., Andreani, M., Leone, G., Amodio, D., Pinto, R. M., Bertaina, A., Bertaina, V., Mastronuzzi, A., Strocchio, L., Boccieri, et al  
2021
- **Harnessing Mechanisms of Immune Tolerance to Improve Outcomes in Solid Organ Transplantation: A Review.** *Frontiers in immunology*  
Slepicka, P. F., Yazdanifar, M., Bertaina, A.  
2021; 12: 688460
- **Supportive Care During Pediatric Hematopoietic Stem Cell Transplantation: Prevention of Infections. A Report From Workshops on Supportive Care of the Paediatric Diseases Working Party (PDWP) of the European Society for Blood and Marrow Transplantation (EBMT).** *Frontiers in pediatrics*  
Ifversen, M., Meisel, R., Sedlacek, P., Kalwak, K., Sisinni, L., Hutt, D., Lehrnbecher, T., Balduzzi, A., Diesch, T., Jarisch, A., Gungor, T., Stein, J., Yaniv, et al  
2021; 9: 705179
- **The Role of Donor KIR Genotyping in Pediatric Hematopoietic Stem Cell Transplantation For Non-Malignant Disorders**  
Mariano, L., Bertaina, A., Zhang, B. M., Kristovich, K., Vina, M.  
SPRINGERNATURE.2020: 640
- **Anti-T-Lymphocyte Globulin (ATLG) and Rituximab for Immunomodulation of Graft-Versus-Host Disease and Graft Failure in Patients with Non-Malignant Disorders: Results of a Multicentre, Randomized, Open-Label Study**

- Algeri, M., Galimberti, S., Bernardo, M., Rovelli, A., Zecca, M., La Nasa, G., Marktel, S., Merli, P., Bertaina, A., Pagliara, D., Boccieri, E., Del Bufalo, F., Gaspari, et al  
SPRINGERNATURE.2020: 85–86
- **HLA-haplotype loss after TCRalpha/CD19-depleted haploidentical HSCT. *Bone marrow transplantation***  
Shyr, D. C., Zhang, B. M., Saini, G., Madani, N. D., Schultz, L. M., Patel, S., Kristovich, K., Fernandez-Vina, M., Bertaina, A.  
2020
  - **Identification of dual positive CD19+/CD3+ T cells in a leukapheresis product undergoing CAR transduction: a case report. *Journal for immunotherapy of cancer***  
Schultz, L., Patel, S., Davis, K. L., Ramakrishna, S., Sahaf, B., Bhatia, N., Baggott, C., Erickson, C., Majzner, R. G., Oak, J., Bertaina, A., Mackall, C., Feldman, et al  
2020; 8 (2)
  - **Sustained fetal hematopoiesis causes juvenile death from leukemia: evidence from a dual-age-specific mouse model. *Blood advances***  
Vara, N., Liu, Y., Yan, Y., Lensing, S. Y., Colorado, N., Robinson, D., Zhang, J., Zhang, X., Peterson, E. A., Baltz, N. J., Zhou, D., Bertaina, A., Johann, et al  
2020; 4 (15): 3728–40
  - **A study assessing the feasibility of randomization of pediatric and young adult patients between matched unrelated donor bone marrow transplantation and immune-suppressive therapy for newly diagnosed severe aplastic anemia: A joint pilot trial of the North American Pediatric Aplastic Anemia Consortium and the Pediatric Transplantation and Cellular Therapy Consortium. *Pediatric blood & cancer***  
Pulsipher, M. A., Lehmann, L. E., Bertuch, A. A., Sasa, G., Olson, T., Nakano, T., Gilio, A., Burroughs, L. M., Lipton, J. M., Huang, J. N., Dickerson, K., Bertaina, A., Zhuang, et al  
2020: e28444
  - **Phenotypic and Functional Characterization of NK Cells in alpha beta T-Cell and B-Cell Depleted Haplo-HSCT to Cure Pediatric Patients with Acute Leukemia *CANCERS***  
Meazza, R., Falco, M., Loiacono, F., Canevali, P., Della Chiesa, M., Bertaina, A., Pagliara, D., Merli, P., Indio, V., Galaverna, F., Algeri, M., Moretta, F., Colomar-Carando, et al  
2020; 12 (8)
  - **Engineering the Bridge between Innate and Adaptive Immunity for Cancer Immunotherapy: Focus on gammadelta T and NK Cells. *Cells***  
Morandi, F., Yazdanifar, M., Cocco, C., Bertaina, A., Airoidi, I.  
2020; 9 (8)
  - **Gamma delta T cells as novel immunotherapeutic tool to cure drug-resistant viral infections in transplanted pediatric patients: development and validation of procedures for a new ATMP (advanced therapy medicinal product)**  
Zorzoli, A., Morandi, F., Barbarito, G., Bertaina, A., Podesta, M., Airoidi, I.  
ELSEVIER SCI LTD.2020: S139
  - **CRISPR-based gene editing enables FOXP3 gene repair in IPEX patient cells *SCIENCE ADVANCES***  
Goodwin, M., Lee, E., Lakshmanan, U., Shipp, S., Froessler, L., Barzaghi, F., Passerini, L., Narula, M., Sheikali, A., Lee, C. M., Bao, G., Bauer, C. S., Miller, et al  
2020; 6 (19)
  - **Myeloablative conditioning for allo-HSCT in pediatric ALL: FTBI or chemotherapy?-A multicenter EBMT-PDWP study. *Bone marrow transplantation***  
Willasch, A. M., Peters, C., Sedlacek, P., Dalle, J., Kitra-Roussou, V., Yesilipek, A., Wachowiak, J., Lankester, A., Prete, A., Hamidieh, A. A., Ifversen, M., Buechner, J., Krivan, et al  
2020
  - **Treatment of steroid resistant acute graft versus host disease with an anti-CD26 monoclonal antibody-Begelomab. *Bone marrow transplantation***  
Bacigalupo, A., Angelucci, E., Raiola, A. M., Varaldo, R., Di Grazia, C., Gualandi, F., Benedetti, E., Risitano, A., Musso, M., Zallio, F., Ciceri, F., Chiusolo, P., Sica, et al  
2020
  - **A beta T-Cell/CD19 B-Cell Depleted Haploidentical Stem Cell Transplantation: A New Platform for Curing Rare and Monogenic Disorders**  
Bertaina, A., Bacchetta, R., Lewis, D. B., Grimm, P. C., Shah, A. J., Agarwal, R., Concepcion, W., Czechowicz, A., Bhatia, N., Lahiri, P., Weinberg, K. I., Parkman, R., Porteus, et al  
ELSEVIER SCIENCE INC.2020: S288
  - **Experience with Ruxolitinib (Jakafi (R)) As a Salvage Therapy for Graft-Versus-Host Disease in Children and Young Adults**  
Mavers, M., Klinger, E., Shyr, D. C., Shah, A. J., Bertaina, A., Soni, S.

ELSEVIER SCIENCE INC.2020: S179

- **Regulatory Type 1 T Cell Infusion in Mismatched Related or Unrelated Hematopoietic Stem Cell Transplantation (HSCT) for Hematologic Malignancies**  
Agarwal, R., Bacchetta, R., Bertaina, A., Chen, P., Saini, G., Shiraz, P., Bhatia, N., Roncarolo, M.  
ELSEVIER SCIENCE INC.2020: S272–S273
- **Early Epigenetic Immune Quantification Following Alpha/Beta T-Cell/CD19 B-Cell Depleted Haploidentical Stem Cell Transplant Correlates with CD4+T Cell Recovery at Day+100**  
Mayers, M., Schulze, J., Barbarito, G., Lakshmanan, U., Parkman, R., Weinberg, K. I., Chu, J., Agarwal, R., Roncarolo, M., Sachsenmaier, C., Bacchetta, R., Bertaina, A.  
ELSEVIER SCIENCE INC.2020: S305
- **## T Cells: The Ideal Tool for Cancer Immunotherapy.** *Cells*  
Yazdanifar, M. n., Barbarito, G. n., Bertaina, A. n., Airoidi, I. n.  
2020; 9 (5)
- **Engineered type 1 regulatory T cells designed for clinical use kill primary pediatric acute myeloid leukemia cells** *Haematologica*  
Cieniewicz, B., Uyeda, M. J., Chen, P. P., Sayitoglu, E. C., Liu, J. M., Andolfi, G., Greenthal, K., Bertaina, A., Gregori, S., Bacchetta, R., Lacayo, N. J., Cepika, A., Roncarolo, et al  
2020
- **Alloantigen-specific Tr1 cells designed to prevent GvHD have a distinct molecular identity and suppress through CTLA-4 and PD-1** *Society for Immunotherapy of Cancer's (SITC) 35th Anniversary Annual Meeting*  
Cepika, A., Chen, P. P., Uyeda, M. J., Cieniewicz, B., Narula, M., Amaya, L., Louis, D. M., Xu, L., Ji, X., Bertaina, A., Agarwal-Hashmi, R., Davis, M. M., Meyer, et al  
2020: A159–A159
- **Genome editing of donor-derived T-cells to generate allogenic chimeric antigen receptor-modified T cells: Optimizing ## T cell-depleted haploidentical hematopoietic stem cell transplantation.** *Haematologica*  
Wiebking, V. n., Lee, C. M., Mostrel, N. n., Lahiri, P. n., Bak, R. n., Bao, G. n., Roncarolo, M. G., Bertaina, A. n., Porteus, M. H.  
2020
- **Making a case for using ## T cells against SARS-CoV-2.** *Critical reviews in microbiology*  
Yazdanifar, M. n., Mashkour, N. n., Bertaina, A. n.  
2020: 1–14
- **Human-engineered Treg-like cells suppress FOXP3-deficient T cells but preserve adaptive immune responses in vivo.** *Clinical & translational immunology*  
Sato, Y. n., Passerini, L. n., Piening, B. D., Uyeda, M. J., Goodwin, M. n., Gregori, S. n., Snyder, M. P., Bertaina, A. n., Roncarolo, M. G., Bacchetta, R. n.  
2020; 9 (11): e1214
- **Veno-occlusive Disease in HSCT Patients: Consensus-based Recommendations for Risk Assessment, Diagnosis, and Management by the GITMO Group.** *Transplantation*  
Bonifazi, F. n., Sica, S. n., Angeletti, A. n., Markt, S. n., Prete, A. n., Iori, A. P., Olivari, D. n., Rossetti, G. n., Bertaina, A. n., Botti, S. n., Busca, A. n., Carella, A. M., Cerretti, et al  
2020
- **Results of a Multicentre, Randomized, Controlled Open-Label Study on the Use of Anti-T-Lymphocyte Globulin (ATLG) and Rituximab for Immunomodulation of Graft-Versus-Host Disease (GvHD) and Graft Failure (GF) in Patients with Non-Malignant Disorders**  
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