



## **CURRICULUM VITAE**

### **Amir Ali Hamidieh M.D.**

#### **I. Personal Data**

**Birth date:** 23 Sep 1972  
**Place of birth:** Tehran  
**Home town:** Tehran  
**Citizenship:** Iran  
**Nationality:** Iranian  
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**Current position:** Professor of Pediatric Hematology/Oncology and Stem Cell Transplantation  
Tehran University of Medical Sciences  
**Work address:** Pediatric Stem Cell Transplant Department  
Children's Medical Center,  
Qarib St, Keshavarz Blvd, Tehran 14194, Iran

#### **II. Academic Appointments**

**2018-Present** Professor  
Tehran University of Medical Sciences  
Pediatric Stem Cell Transplant Department,  
Children's Medical Center

**2012-2018** Associate Professor  
Tehran University of Medical Sciences  
Pediatric Stem Cell Transplant Department,  
Children's Medical Center  
Hematology-Oncology and SCT Research Center,  
Shariati Hospital

**2007-2012** Assistant Professor  
Tehran University of Medical Sciences  
Hematology-Oncology and SCT Research Center  
Shariati Hospital

### **III. Education**

- 2011** Course of Hematopoietic Stem Cell Transplantation, MD Anderson Cancer Center, University of Texas, Houston, USA
- 2009** Course of Pediatric Hematopoietic Stem Cell Transplantation, Texas Children's Hospital, Center for Cell and Gene Therapy Baylor College of Medicine Houston, USA
- 2003-2006** Pediatric Hematology/Oncology, Fellowship Mofid Children's Hospital Shaheed Beheshti University of Medical sciences Tehran, Iran
- 1999-2002** Pediatrics, Residency Mofid Children's Hospital Shaheed Beheshti University of Medical Sciences Tehran, Iran
- 1990-1997** M.D. Faculty of Medicine, Tehran Azad University, Medical Sciences Tehran, Iran

### **IV. Board Certification:**

- 2002** Iranian Board of Pediatrics
- 2006** Iranian Board of Pediatric Hematology/Oncology

### **V. Administrative Position**

- 2023-present** Head, Pediatric Hematology / Oncology and Stem Cell Transplantation Department  
Tehran University of Medical Sciences
- 2021-present** Director, Gene, Cell & Tissue Institute  
Tehran University of Medical Sciences
- 2020-2021** Director, Iranian Tissue Bank & Research Center  
Tehran University of Medical Sciences
- 2019-present** Founder and Director, Pediatric Cell & Gene Therapy Research Center  
Tehran University of Medical Sciences
- 2018-present** Director, Innovation Center for Stem Cell and Regenerative Medicine  
Tehran University of Medical Sciences
- 2017-present** Academic Board Member, Iranian Pediatric Hematology/Oncology, Minister of Health and Medical Education

- 2016-present** Founder and Director, Pediatric Stem Cell Transplantation Program , Children's Medical Center  
Tehran University of Medical Sciences
- 2015-present** Secretary General, Council for Stem Cell and Regenerative Medicine  
Tehran University of Medical Sciences
- 2015-2023** Chairman, National Council for Development of Stem Cell Sciences and Technologies
- 2015-present** Executive Board Member, Iranian National Stem Cell Donor Network (INSCDN)  
Iranian Ministry of Health and Medical Education
- 2015-2016** Secretary General, Iranian National Stem Cell Donor Network (INSCDN)  
Iranian Ministry of Health and Medical Education
- 2015-present** Executive Board Member, Council for Development of Stem Cell Sciences and Regenerative Medicine  
Tehran University of Medical Sciences
- 2014-2015** Education Deputy, Department of Applied Cell Sciences School of Advanced Medical Technologies,  
Tehran University of Medical Sciences
- 2014-2023** Executive Board Member, National Council for Development of Stem Cell Sciences and Technologies
- 2013-present** Executive Board Member, Asia Pacific Blood and Marrow Transplantation Group (APBMT)
- 2012-present** Scientific Committee Member, Asia Pacific Blood and Marrow Transplantation Group (APBMT)
- 2011-present** Secretary General, Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT)
- 2011-2016** Board of Directors, Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT) Member
- 2010-present** Representative of Eastern Mediterranean Blood and Marrow Transplantation Group in Worldwide Network for Blood & Marrow Transplantation (WBMT)
- 2009-present** Chairman, Histocompatibility, Alternate Donor Transplantation, Donor health committee in Eastern Mediterranean Blood and Marrow Transplantation Group (EMBMT)
- 2009-present** Board of Directors, Eastern Mediterranean Blood and Marrow Transplantation Group (EMBMT)
- 2008-2014** Founder and Director, Iranian Stem Cell Donor Program (ISCDP)
- 2007-2016** Founder and Director, Pediatric Stem Cell Transplantation Program Hematology-Oncology and SCT Research Center, Shariati Hospital  
Tehran University of Medical Sciences

## **VI. Memberships & Review for Journals**

<b>2019-present</b>	<b>Reviewer, Pediatric working Party/ European Group for Blood and Marrow Transplantation, EBMT Annual Congress</b>
<b>2018-present</b>	<b>Editorial Board, Bioimpacts Editorial Board, Blood Cell Therapy</b>
<b>2017-present</b>	<b>Reviewer, Annals of Hematology Journal</b>
<b>2015-present</b>	<b>Reviewer, Bone Marrow Transplantation Journal</b>
<b>2014-present</b>	<b>Reviewer, Medicine (Baltimore) Journal</b>
<b>2013-present</b>	<b>Editorial Board, Magazine of European Medical Oncology</b>
<b>2013-present</b>	<b>Reviewer, International Journal of Organ Transplantation Medicine</b>
<b>2012-present</b>	<b>Reviewer, Pediatric Transplantation Journal</b>
<b>2012-present</b>	<b>Section Editor, Acta Medica Iranica Journal</b>
<b>2011-present</b>	<b>Editorial Board, Hematology/Oncology and Stem Cell Therapy Journal</b>
<b>2010-present</b>	<b>Reviewer, Archives of Iranian Medicine Journal</b>
<b>2010 -present</b>	<b>Member of Asia Pacific Blood and Marrow Transplantation Group, APBMT</b>
<b>2010-present</b>	<b>Scientific Board of Royan International Research Award</b>
<b>2010-present</b>	<b>Reviewer, Iranian Journal of Pediatrics</b>
<b>2009-present</b>	<b>Member of European Group for Blood and Marrow Transplantation, EBMT</b>
<b>2009-present</b>	<b>Member of American Society for Blood and Marrow Transplantation, ASBMT</b>
<b>2009-present</b>	<b>Reviewer, Iranian Journal of Blood and Cancer</b>
<b>2008-present</b>	<b>Member of European Hematology Association, EHA</b>
<b>2008-present</b>	<b>Reviewer, Iranian Journal of Allergy, Asthma and Immunology</b>
<b>2007-present</b>	<b>Associate Editor, International Journal of Hematology- Oncology and Stem Cell Research</b>
<b>2007-present</b>	<b>Member of Iranian Society of Hematopoietic Stem Cell Transplantation (ISHSCT)</b>
<b>2004-present</b>	<b>Member of Iranian Society of Pediatric Hematologist/Oncologist</b>
<b>2002-present</b>	<b>Member of Iranian Society of Pediatricians</b>

## **VII. Research Projects (ongoing and finished)**

1. Comparison of the results of hematopoietic stem cell transplantation in children, allogeneic transplantation from fresh cell source with frozen (Cryopreserved)
2. Design and evaluation of anti-GD2 gamma delta CAR-T on a malignant neuroblastoma cell line
3. Comparing the efficacy and side effects of Romiplostim in thrombocytopenia caused by thrombocytopenic purpura of the immune system and thrombocytopenia caused by other diseases in children
4. Investigation of the safety of mesenchymal stem cells with the origin of menstrual blood in the treatment of grade IV GVHD resistant to steroids in children.
5. Investigation of the level of toxicity of natural killer cells following inhibition of PD-1 and TIGIT receptors on AML cell line in laboratory conditions
6. In vitro phase of SMN1 gene replacement in fibroblastic cells of a patient with SMA type I lacking SMN expression
7. Making allogeneic platelet paste from umbilical cord blood and investigating its effect on treatment-resistant GVHD wounds of the oral cavity: a pilot clinical trial
8. Implementation of a phase one clinical trial using pseudo-memory NK cells along with determining the mismatch of KIR receptors from the second donor after haploidentical transplantation in children with AML.
9. Investigating the therapeutic effect of Romiplostim in thrombocytopenia after hematopoietic stem cell transplantation in children
10. Evaluation of the efficacy of T-cell receptor-based therapy in neuroblastoma
11. Comparison of the results of hematopoietic stem cell transplantation in child patients who are candidates for allogeneic transplantation from fresh and cryopreserved cell sources.
12. Beta thalassemia gene therapy (first phase): construction of efficient lentivirus construct carrying human beta globin gene and its transduction into CD34 stem cells isolated from thalassemia major patients
13. Evaluation of the effectiveness of ruxolotinib in treatment-resistant acute gastrointestinal GVHD after hematopoietic stem cell transplantation in children
14. Investigating the effect of cytomegalovirus infection and its treatment on the complications and outcome of transplantation after hematopoietic stem cell transplantation in children
15. Preclinical investigation of the effect of miR-326 and miR-328 on the expression of Granzyme B, perforin and the cytotoxic function of NK cells in Wilms tumor
16. Genetic modification of LAD-1 gene by high-fidelity CRISPR-Cas9 using HDR method in human hematopoietic stem cells (HSC)
17. Investigating factors related to hemorrhagic cystitis and its prognosis after hematopoietic stem cell transplantation in children
18. Implementation of a phase one clinical trial using pseudo-memory NK cells along with determining the mismatch of KIR receptors from the second donor after haploidentical transplantation in children with AML

19. Evaluation of the effectiveness of ruxolotinib in treatment-resistant acute gastrointestinal GVHD after hematopoietic stem cell transplantation in children
20. Investigating the effect of Plerixafor on the release of hematopoietic stem cells(+CD34) in children with neuroblastoma who are candidates for autologous hematopoietic stem cell transplantation
21. Investigation of the relative frequency of acute kidney injury with urine NGAL and serum creatinine indicators in the diagnosis of acute kidney injury after hematopoietic stem cell transplantation in the children's medical center from March 2021 to March 2022
22. Comparison of the prevalence of complications and prognosis of allogeneic hematopoietic stem cell transplantation before and after the COVID-19 pandemic (from September 2014 to March 2015) in Children's Medical Center
23. Investigating survival rate and incidence of GVHD in children receiving T-globulin 25 as an immunosuppressive agent during hematopoietic stem cell transplantation
24. Determining the effectiveness of photopheresis using cryopreservation in the treatment of GvHD resistant to steroids in children
25. Establishing HLA biobank of brain-dead organ donors and evaluation of HLA compatibility between donors and recipients
26. Safety assessment of the CD19 CAR T cell on the B cell acute lymphoblastic leukemia in pediatric patients
27. Iranian Fanconi Anemia Registry
28. Clinical trial phase I and II of allogenic NK cells in Coronavirus Pneumonia patient, interventional, both side blind, open label, randomized
29. Evaluation of Safety and Effectiveness of Allogeneic Adipose Derived Mesenchymal Stem Cells in Bronchiolitis Obliterans Syndrome (BOS) after Allogeneic Hematopoietic Stem Cell Transplantation
30. HCL aerosols effect study on alveolar epithelial cells infected by COVID-19 and side effects evaluation thereof on rabbit animal model
31. Safety and Effectiveness evaluation of Allogeneic Cord Blood Platelet Gel (CBPG) for the treatment of nonhealing skin ulcers/erosion due to the cutaneous chronic GVHD: A Randomize Clinical Trial (Pilot study)
32. A Randomized Clinical Trial Phase I & II of III Times Intratechal Injections of Umbilical Cord Derived Mesenchymal cells in Children with Spastic Cerebral Palsy
33. Determining optimum operating conditions of rotational blood component separator
34. Wharton's Jelly Derived-Mesenchymal Stem Cells Transplantation in Pediatric with Non-Ischemic Dilated Cardiomyopathy
35. Efficacy of Chimeric Antigen Receptor Modified Umbilical Cord Blood Natural Killer Cells for the Immunotherapy of Acute Lymphoblastic Leukemia
36. Developing Cancer Treatment Strategies based on activation of intratumoral immunity via mRNA technology
37. The Safety Evaluation of Ex vivo Activated Haploidentical Natural Killer Cells (NK) in Recurrent Glioblastoma Multiform patients (Clinical Trial Phase I)
38. Measurement of blood levels of D-dimer and CRP in brain dead patients and the effect of therapeutic dose of heparin on organ receptors in these patients

39. Investigation the relationship between RDW and Prognosis of brain death and cardiac death
40. Evaluation and standardization of fresh osteochondral allograft scaffolds for irreversible cartilage defect in vitro and in vivo studies
41. Evaluation of the effect of stromal vascular fraction (SVF) and allogeneic fibroblasts on diabetic wound healing in a rat model: A comparison in terms of wound closure rate and histopathological examination in terms of epithelialization and angiogenesis
42. Isolation, characterization and standard storage of Research Degree Adipose Tissue-Derived Mesenchymal Stem Cells (ADMSCs) of Brain Death patients in order to commercialization
43. The safety and efficiency evaluation of allogeneic Natural Killer cell therapy in relapsed Neuroblastoma pediatric patients post hematopoietic stem cell transplantation: Phase I clinical study
44. The effect of Peripheral blood NK Cell-activated with Exosomes in a mouse model of wilms tumor
45. Immune Cell Therapy Using WT1-Specific Human Cytotoxic T Cells for WT1+Wilms Tumor Bearing Immunodeficient Mice
46. Therapeutic effect of unrestricted somatic stem cells (USSC) in sepsis animal model
47. Posterior reversible encephalopathy syndrome after hematopoietic stem cell transplantation in pediatrics patients
48. Human  $\beta$  globin gene editing with application of CRISPR/Cas9 system in hematopoietic stem cells aimed at cure of  $\beta$  thalassemia and sickle cell anemia
49. Induced hemorrhagic cystitis with cyclophosphamide in rats
50. Tissue engineering of ovine heart by GFP-Positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
51. Comparison of cell expansion and cell transduction methods for generation of efficient chimeric receptor antigen T cells
52. Tissue engineering of ovine heart by GFP-Positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
53. Therapeutic potential of exosomes generated from human embryonic stem cell-derived Mesenchymal Stromal Cells in liver injury model
54. Effectiveness of allogeneic adipose derived mesenchymal stem cells (ADMSCs) in the phenotypic changes of Werdnig Hoffman patients
55. Effectiveness of Natural Killer cells treated with interleukines for therapy in Neuroblastoma mice Model
56. Induced hemorrhagic cystitis with cyclophosphamide in rats
57. Long-term outcomes of fludarabine, melphalan and antithymocyte globulin as reduced-intensity conditioning regimen for hematopoietic stem cell transplantation in children with primary immunodeficiency disorders
58. Hematopoietic stem cell transplantation among Diamond Blackfan Anemia patients applying Busulfan plus Cyclophosphamide  $\pm$  rATG
59. Investigation of novel mutations in patients with leukocyte adhesion deficiency-type I, Wiskott-Aldrich, DOCK8 deficiency, Severe congenital neutropenia
60. Oral mucositis prevention in patients with Fanconi Anemia undergoing Stem Cell

## Transplantation

61. Hematopoietic stem cell transplantation results in pediatric acquired severe aplastic anemia: Stem cell source perspective.
62. Plasma levels of vitamin A and E for thalassemic patients undergoing hematopoietic stem cell transplantation
63. Comparison of the results of one-locus HLA-mismatched Stem Cell Transplantation from relative Donors with HLA full-matched relative donors
64. Malignant infantile osteopetrosis skeletal changes following hematopoietic stem cell transplantation.
65. Extended family search: Efficiency of allogeneic stem cell transplantation from HLA fully-matched non-sibling relatives
66. Comparing the results of hematopoietic stem cell transplantation using preparing regimen without TBI in patients with acute lymphoblastic leukemia with and without central nervous system involvement
67. Elastography assessment of liver iron overload in patients with thalassemia major after stem-cell transplantation
68. Allogeneic Hematopoietic Stem Cell Transplantation for Patients with Hereditary Bone Marrow Failure Syndromes
69. Impact of Beta-Globin Mutations on Outcome of Hematopoietic Stem Cell Transplantation for Patients with Beta-Thalassemia Major
70. Reduced-intensity conditioning regimen for Hematopoietic Stem Cell Transplantation in primary hemophagocytic lymphohistiocytosis
71. Non-TBI Hematopoietic Stem Cell Transplantation in Pediatric Leukemia Patients
72. Evaluation of benefit and side effects of double unit umbilical cord blood stem cell transplantation in hematologic malignancies with Non-TBI regimen
73. Bone mineral density in ex-thalassemic pediatric patients
74. Study of minor histocompatibility matching with recipients between HLA-identical siblings and HLA-matched other related donors
75. Evaluation of benefit and side effect of myeloablative regimen for the treatment of malignant Osteopetrosis
76. Evaluation of benefit and side effect of myeloablative regimen for the treatment of malignant Mucopolysaccharidosis (MPS)
77. Iranian Stem Cell Donor Program
78. MRI T2\* assessment of liver and heart iron overload in patients with thalassemia major after stem cell transplantation
79. Resilience, mental health and quality of life in HSCT children caregivers.
80. Daclizumab in children with corticosteroid-refractory gastrointestinal acute GVHD
81. Hepatocytes of donor origin in recipient liver of class III beta thalassemia major patients who had undergone co-transplantation of Stem cell and Mesenchymal progenitor cells
82. Evaluation of benefits and side effects of <sup>131</sup>I-MIBG in combination with myeloablative chemotherapy and autologous bone marrow transplantation for the treatment of high-risk neuroblastoma
83. Reduced-intensity conditioning hematopoietic Hematopoietic Stem Cell Transplantation for pediatric patients with primary immunodeficiencies



84. Treatment of children suffering from CML: comparison of the result of treatment with imatinib mesylate and HSCT
85. Lorazepam for seizure prophylaxis during high-dose busulfan administration in children undergoing bone marrow transplantation
86. Quantitation of human cytomegalovirus DNA in plasma using an affordable in-house qPCR assay
87. Busulfan-based stem cell transplantation without total body irradiation in Fanconi anemia patients
88. Prevalence of hypoparathyroidism and hypothyroidism in major thalassemia patients
89. Prevalence of zinc and copper deficiency in major thalassemia patients
90. Prevalence of helicobacter pylori infection in Pediatric chronic ITP
91. Incidence of hearing loss in the newborns hospitalized in Neonates

## VIII. Publications

### Articles

1. Wlodarski M, Vlachos A, Farrar J, M Da Costa L, Kattamis L, Dianzani I, Belendez C, Unal S, Tamary H, Pasauliene R, Pospisilova D, de la Fuente J, Iskander D, Wolfe L, M Liu J, Shimamura A, Albrecht K, Lausen B, Bechensteen A.G, Tedgard U, Puzik A, Quarello P, Ramenghi U, Bartels M, Hengartner H, Farah R.A, Al Saleh M, **Hamidieh A.A**, et.al. Diagnosis, treatment, and surveillance of Diamond-Blackfan anaemia syndrome: international consensus statement. *Lancet Haematol.* 2024 May;11(5):e368-e382 doi: 10.1016/S2352-3026(24)00063.PMID: 38697731DOI: 10.1016/S23523026(24)00063.
2. Mohseni R, MahdaviSharif P, Khosravi A, Taheri A.R, Behfar M, Zarrabi M, Jafari L, Jafari F, Nikfetrat Z, Naji P, **Hamidieh A.A**. The Application of Umbilical Cord Blood-derived Platelet Gel for Skin Ulcers Associated With Chronic Graft-Versus-Host Disease in Pediatrics: A Randomized Trial. *Transplantation and Cellular Therapy* Available online 24 April 2024, <https://doi.org/10.1016/j.jtct.2024.04.013>.
3. Khoshandam M, Soltaninejad H, **Hamidieh A.A**, Hosseinkhani S. CRISPR, CAR-T, and NK: Current applications and future perspectives. *GenesDis.*2023Sep 19;11(4):101121. doi: 10.1016/j.gendis.2023.101121.
4. Mohseni R, MahdaviSharif P, Behfar M, Modaresi M.R, Shirzadi R, Mardani M, Jafari L, Jafari F, Nikfetrat Z, **Hamidieh A.A**. Evaluation of safety and efficacy of allogeneic adipose tissue-derived mesenchymal stem cells in pediatric bronchiolitis obliterans syndrome (BoS) after allogeneic hematopoietic stem cell transplantation (allo-HSCT). *Stem Cell Res Ther.* 2023 Sep 19;14(1):256. doi: 10.1186/s13287-023-03498-y.
5. Maleki M, Dehghan Nayeri N, **Hamidieh A.A**, Pouraboli B. Parents' experiences of living with a child with cancer undergoing hematopoietic stem cell transplantation: a qualitative content analysis study. *Front Psychol.* 2024 Mar 12;15:1359978. doi: 10.3389/fpsyg.2024.1359978.

6. Alamdar N, Farivar Sh , Baghaei K, **Hamidieh A.A** , et.al . Effect of Pioglitazone and Cetuximab on Colon Cancer Stem-like Cell (CCSLCs) Properties. *Curr Stem Cell Res Ther.*2024Jan31. doi:10.2174/011574888X283318240118111822.
7. Parvini N , Esmaeil Akbari M , **Hamidieh A.A** , et.al . CTLA-4 Blockade of Natural Killer Cells Increases Cytotoxicity against Acute Lymphoid Leukaemia Cells Neda. *Cell J.* 2024 Feb 1;26(2):150-157. doi: 10.22074/cellj.2024.2015187.1444.
8. Ansari F , Behfar M , Jafari J, Mohseni R , Naji P, Karamlou Y , Hossein Amirzade-Iranaq M, **Hamidieh A.A**. A comprehensive comparison between TBI vs non-TBI-based conditioning regimen in pediatric patients with acute lymphoblastic leukemia: A systematic review and meta-analysis. *Leuk Res.* 2023 Dec;135:107416. doi: 10.1016/j.leukres.2023.107416. Epub 2023 Oct 28.
9. Maleki M , Dehghan Nayeri N, **Hamidieh A.A** , et.al. Harmony in hardship: Unveiling parental coping strategies with the challenges of child's hematopoietic stem cell transplantation. *J Pediatr Nurs.* 2024 Apr 13:S0882-5963(24)00148-9. doi: 10.1016/j.pedn.2024.04.030.
10. Kashani Khatib Z, Maleki A, Pourfatollah A.A, **Hamidieh A.A**, Ferdowsi Sh, Antileukemia Activity of Human Natural Killer Cell-Derived Nanomagic Bullets against Acute Myeloid Leukemia (AML). *International Journal of Hematology-Oncology and Stem Cell Research.* Vol 18 No 2 (2024)
11. Mohajeri-Tehrani M.R,Alemzadeh S.A, Abbaszadeh Marzbali F, Nasserisina S, Hosnan F, Naghghash A,**Hamidieh A.A**, Behfar M, et.al. How Age, Sex and Transfusion Affects the Incidence of Endo-crine and Bone Density Disorders in Major Thalassemic Patients. *Iranian Journal of Public Health.*Vol 53 No 2 (2024), <https://doi.org/10.18502/ijph.v53i2.14928>
12. Mahbubi R , Yousefi N, **Hamidieh A.A** , Gholizadeh F , Mollapour Sisakht M. Tumor Organoid as a Drug Screening Platform for Cancer Research. *Curr Stem Cell Res Ther.* 2023 Oct 6. doi: 10.2174/011574888X268366230922080423. Online ahead of print.
13. Iida M , Liu K , Jun Huang X , Huang H , Kuwatsuka Y, Ho Moon J , Wook Lee J , Lakshmi KM , Dodds A , Wilcox L, Ko BS , **Hamidieh A.A**, Behfar M. et.al. Report on hematopoietic cell transplantations performed in 2018/2019 focusing on the trends of selection of stem cell sources in the Asia-Pacific region: APBMT Activity Survey. *Blood Cell Ther.* 2023 Oct 6;6(4):114-123. doi: 10.31547/bct-2023-015. eCollection 2023 Nov 25.
14. Yk Hwang W, Takahashi S , Choi B , Huang H, Kawamata Sh , Chin Ng S , Gupta P , **Hamidieh A.A** , Koaykul C, Irawan C , Srivastava A. Challenges in Global Access to CAR-T cells: an Asian Perspective. *Blood Cell Ther.* 2023 Dec 28;7(1):10-13. doi: 10.31547/bct-2023-023.
15. Borghei Y.S,**Hamidieh A.A**, Lu Y,Hosseinkhani S. Organic-inorganic hybrid nanoflowers as a new biomimetic platform for ROSinduced apoptosis by photodynamic

therapy. *European Journal of Pharmaceutical Sciences* August 2023, 106569.

16. Namazi Bayegi SH, **Hamidieh A.A**, Behfar M, et.al. The reconstitution of T-cells after Allogeneic Hematopoietic Stem Cell Transplant in a Pediatric Patient with Congenital Amegakaryocytic Thrombocytopenia (CAMT). *Endocr Metab Immune Disord Drug Targets* 2023 Aug 1.
17. Namazi Bayegi SH, **Hamidieh A.A**, Behfar M, et al. Disturbance in the reconstitution of distinct T-cell subsets and the incidence of GvHD following allo-HSCT in pediatric patients with non-malignant hematological disorders. *Elsevier* Volume 261, September 2023, Pages 25-36.
18. Fazlollahi M.R, **Hamidieh A.A**, et al. Clinical and immunological characteristics of 69 leukocyte adhesion deficiency-I patients. *Volume34, Issue7 July 2023 e13990*.
19. Monzavi S.M ,**Hamidieh A.A** ,Vasei M, et.al. Cytotoxicity of WT1-reactive T cells against Wilms tumor: An implication for antigen-specific adoptive immunotherapy. *BioImpacts*, 2023, x(x),doi: 10.34172/bi.2023.27576
20. Jafari L, Behfar M, Tabatabaie S, Karamlou Y, Kashani H,Radmard A.R, Mohseni R, Naji P, Ghanbari F, Ashkevari P, Mohammadi Sh,**Hamidieh A.A**. Posterior Reversible Encephalopathy Syndrome in Pediatric Hematopoietic Stem Cell Transplantation with Beta Major Thalassemia: The Association between the PRES Occurrence and Class of Beta Major Thalassemia. June 6th, 2023: doi.org/10.21203/rs.3.rs-3004145/v1.
21. Shayan A.N , Behfar M , Shams Amiri R , Mohseni R , Azimi M , Firouzi J , Faranoush M , Izadpanah A.H , Mohmmad M ,**Hamidieh A.A**, et al. Intra-lesion injection of activated Natural Killer (NK) cells in recurrent malignant brain tumors. *International Immunopharmacology*, Volume 120, July 2023, 110345.
22. Badalzadeh M, Soleimani Bavani M, Alizadeh Z, Mirmoghtadaei M, Shakerian L, Bahram S, Molitor A, Carapito R, Moradi L, Razaghian A, Assari R, Movahedi M, Shariat M, Houshmand M, Habibi L, **Hamidieh A.A**, et al. Clinical Characterization and Mutation Analysis of 13 Iranian Ataxia-Telangiectasia Patients: Introducing Three Novel Mutations. 2023, doi.org/10.21203/rs.3.rs-2914441/v1.
23. Heidari F , Nasrollahzadeh Sabet M, Heidari R, **Hamidieh A.A** , Saltanatpour Z. Menstrual Blood-Derived Mesenchymal Stem Cell Therapy for Severe COVID-19 Patients, *Curr Stem Cell Res Ther* 2023. doi: 10.2174/1574888X18666230417085117.
24. Musavi Khorshidi M.S, Seeleuthner Y, Chavoshzadeh Z, Behfar M, **Hamidieh A.A**, et al. Clinical, immunological, and genetic findings in Iranian patients with MHC-II deficiency: confirmation of c.121delG RFXANK founder mutation in the Iranian population. 2023, doi.org/10.21203/rs.3.rs-2726912/v1.
25. Ansari F, Behfar M, Naji P , Darvish Z , Rostami T, Mohseni R, Alimoghaddam K, Salajegheh P, Ahadi B, Mardani M , **Hamidieh A.A**. Fanconi anemia phenotypic and transplant outcomes' associations in Iranian patients. *Health Science Reports*. Apr 2023 5;6(4): e1180. doi: 10.1002/hsr2.1180.

26. Mardani M , Behfar M, Jafari L , Mohseni R, Naji P , Salajegheh P , Donyadideh Gh, **Hamidieh A.A.** Total body irradiation-free haploidentical peripheral blood stem cell transplantation compared to related and unrelated donor transplantation in pediatrics with acute lymphoblastic leukemia. *Pediatric Blood and Cancer*. 2023, 70(5): e30255. doi: 10.1002/pbc.30255.
27. Bayegi Sh, **Hamidieh A.A** , Behfar M, et al. T helper 17 and regulatory T-cell profile and graft-versus-host disease after allogeneic hematopoietic stem cell transplantation in pediatric patients with beta-thalassemia. *Transplant Immunology*. 2023, 77, 101803. DOI: 10.1016/j.trim.2023.101803
28. Jafari L, **Hamidieh A.A**, Behfar M, Farajifard H, Salajegheh P. Effect of Early Bacillus Calmette-Guerin Vaccination of Pediatric Severe Combined Immunodeficiency Patients on the Outcome of Hematopoietic Stem Cell Transplantation Using a Reduced-Intensity Conditioning Regimen. *Transplantation and Cellular Therapy*, 2023, 29(3), pp. 188.e1–188.e8.
29. Tajik Sh, Badalzadeh M, Houshmand M, Alizadeh Z, Moradi L, **Hamidieh A.A**, Shafiei AR, Ahmadiani Heris J, Bahram S. Molecular findings and clinical manifestations of 18 Iranian children with Griscelli syndrome type 2: Two novel homozygote mutations in RAB27A gene in a patient. *Scandinavian Journal of Immunology*. 2023 <https://doi.org/10.1111/sji.13264>.
30. Averbuch D, de la Camara R, Tridello G, Knelange N.S, Bykova T.A, Ifversen M, Dobsinska V, Ayas M, **Hamidieh A.A**, et al. Risk factors for a severe disease course in children with SARS-COV-2 infection following hematopoietic cell transplantation in the pre-Omicron period: a prospective multinational Infectious Disease Working Party from the European Society for Blood and Marrow Transplantation group (EBMT) and the Spanish Group of Hematopoietic Stem Cell Transplantation (GETH) study. *Bone Marrow Transplantation*, 2023. Feb 27:1-9
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## Abstracts

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## Books

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2. Sayad A, **Hamidieh A.A**, Stem cell processing, 2017, Drkhaliligroup pub.
3. Ayas M, Ghavamzadeh A, Aljurf M, **Hamidieh A.A**, Alseraihy A. Umbilical Cord Blood Banking and Transplantation . Cord Blood Transplantation in the East Mediterranean Region, Chapter 12. 2013, Springer pub.
4. **Hamidieh A.A**: ANEMIAS. 2006, Teimourzadeh pub.
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## **VIII. Honors and Awards**

1. Selected as the influential face in Iran Biotechnology / 5th International Conference and 13th National Biotechnology Conference, 2023.
2. Selected clinical researcher in 28th Razi Medical Sciences Research and Technology Festival, 2023.
3. Alborz Prize ( Iranian Nobel ) Award for Great Scientific Contribution, 2021.
4. Third Prize for Best Oral Presentation at 17th Congress of the Asia Pacific Blood and Marrow Transplantation October 26 – 28, 2012, Hyderabad, India.
5. Young Investigator Award for Best Scientific Presentation in Clinical Nuclear Medicine for “Autologous hematopoietic stem cell transplantation in patients with high risk neuroblastoma treated with/without 131I- MIBG” presented at 10th Asia Oceania Congress of Nuclear Medicine and Biology (AOFNMB). 16 - 20 May 2012, Tehran, Iran.
6. Outstanding Poster Award for "Treatment of Inborn Errors of Metabolism with Allogeneic Hematopoietic Stem Cell Transplantation" presented at The 16th Congress of the Asia Pacific Blood and Marrow Transplantation October 30 October - 2 November 2011, Sydney, Australia.
7. Selected as an "Exemplary Professor" of Shariati Hospital on Teacher's Appreciation Day, 2011.
8. Awarded Eleventh Avicenna Festival for Developing innovative procedures in the delivery of clinical services “Establish the Iranian Unrelated Bone Marrow Donor Registry”.Tehran University of Medical Sciences, 2010
9. ASBMT Young Investigator Award, ASBMT Tandem meetings, Feb. 24-28, 2010, Orlando, Florida
10. Outstanding Poster Award for "Hematopoietic stem cell transplantation in primary immunodeficiency disease: The Iranian Experience" presented at 14th Congress of Asia-pacific Blood and Marrow Transplantation , Aug. 27-29, 2009, Seoul, Korea
11. Awarded the Medical Book of the Year award, entitled ANEMIA, 2006
12. Honored as the best researcher, Shahid Beheshti University of Medical Sciences, 2006