



CURRICULUM VITAE

Amir Ali Hamidieh M.D.

I. Personal Data

Birth date: 23 Sep 1972
Place of birth: Tehran
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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 **Hematopoietic Stem Cell Transplantation,**
MD Anderson cancer center,
University of Texas,
Houston, USA

2009 **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

2021-present **Director, Gene, Cell & Tissue Institute**
Tehran University of Medical Sciences

2020-present **Director, Iranian Tissue Bank & Research Center**
Tehran University of Medical Sciences

2019-present **Director, Pediatric Cell & Gene Therapy Research Center**
Tehran University of Medical Sciences

2019-present **Director, Center of Excellence in 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** **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-present** **Chairman, National Council for Development of Stem Cell Sciences and Technologies**
- 2014-present** **Vice-Presidency for Science and Technology Executive Board Member, National Council for Development of Stem Cell Sciences and Technologies**
- 2015-present** **Vice-Presidency for Science and Technology 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**
- 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-present** **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 **Director, Pediatric Stem Cell Transplantation Program
Hematology-Oncology and SCT Research Center,
Shariati Hospital
Tehran University of Medical Sciences**

VI. Memberships & Review for Journals

2018-present **Editorial Board, Bioimpacts**
2017-present **Editorial Board, Blood Cell Therapy**
2015-present **Reviewer, Annals of Hematology Journal**
2015-present **Reviewer, Bone Marrow Transplantation Journal**
2014-present **Reviewer, Medicine (Baltimore) Journal**
2013-present **Editorial Board, Magazine of European Medical Oncology**
2013-present **Reviewer, International Journal of Organ Transplantation
Medicine**

2012-present **Reviewer, Pediatric Transplantation Journal**
2012-present **Section Editor, Acta Medica Iranica Journal**
2011-present **Editorial Board, Hematology/Oncology and Stem Cell
Therapy Journal**

2010-present **Reviewer, Archives of Iranian Medicine Journal**
2010 -present **Member of Asia Pacific Blood and Marrow
Transplantation Group, APBMT**

2010-present **Scientific Board of Royan International Research Award**
2010-present **Reviewer, Iranian Journal of Pediatrics**
2009-present **Member of European Group for Blood and Marrow
Transplantation, EBMT**

2009-present **Member of American Society for Blood and Marrow
Transplantation, ASBMT**

2009-present **Reviewer, Iranian Journal of Blood and Cancer**
2008-present **Member of European Hematology Association, EHA**
2008-present **Reviewer, Iranian Journal of Allergy, Asthma and
Immunology**

2007-present **Associate Editor, International Journal of Hematology-
Oncology and Stem Cell Research**

2007-present **Member of Iranian Society of Hematopoietic Stem Cell
Transplantation (ISHSCT)**

2004-present **Member of Iranian Society of Pediatric
Hematologist/Oncologist**

2002-present **Member of Iranian Society of Pediatricians**

VII. Research Projects (ongoing and finished)

1. Establishing HLA biobank of brain dead organ donors and evaluation of HLA compatibility between donors and recipients
2. Safety assessment of the CD19 CAR T cell on the B cell acute lymphoblastic leukemia in pediatric patients
3. Iranian Fanconi Anemia Registry
4. Clinical trial phase I and II of allogeneic NK cells in Coronavirus Pneumonia patient, interventional, both side blind, open lable, randomized
5. Evaluation of Safety and Effectiveness of Allogeneic Adipose Derived Mesenchymal Stem Cells in Bronchiolitis Obliterans Syndrome (BOS) after Allogeneic Hematopoietic Stem Cell Transplantation
6. HCL aerosols effect study on alveolar epithelial cells infected by COVID-19 and side effects evaluation thereof on rabbit animal model
7. 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)
8. A Randomized Clinical Trial Phase I & II of III Times Intratechal Injections of Umbilical Cord Derived Mesenchymal cells in Children with Spastic Cerebral Palsy
9. Determining optimum operating conditions of rotational blood component separator
10. Wharton's Jelly Derived-Mesenchymal Stem Cells Transplantation in Pediatric with Non-Ischemic Dilated Cardiomyopathy
11. Efficacy of Chimeric Antigen Receptor Modified Umbilical Cord Blood Natural Killer Cells for the Immunotherapy of Acute Lymphoblastic Leukemia
12. Developing Cancer Treatment Strategies based on activation of intratumoral immunity via mRNA technology
13. The Safety Evaluation of Ex vivo Activated Haploidentical Natural Killer Cells (NK) in Recurrent Glioblastoma Multiform patients (Clinical Trial Phase I)
14. 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
15. Investigation the relationship between RDW and Prognosis of brain death and cardiac death
16. Evaluation and standardization of fresh osteochondral allograft scaffolds for irreversible cartilage defect in vitro and in vivo studies
17. 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

18. Isolation, characterization and standard storage of Research Degree Adipose Tissue-Derived Mesenchymal Stem Cells (ADMSCs) of Brain Death patients in order to commercialization
19. The safety and efficiency evaluation of allogenic Natural Killer cell therapy in relapsed Neuroblastoma pediatric patients post hematopoietic stem cell transplantation: Phase I clinical study
20. The effect of Peripheral blood NK Cell-activated with Exosomes in a mouse model of wilms tumor
21. Immune Cell Therapy Using WT1-Specific Human Cytotoxic T Cells for WT1+ Wilms Tumor Bearing Immunodeficient Mice
22. Therapeutic effect of unrestricted somatic stem cells (USSC) in sepsis animal model
23. Posterior reversible encephalopathy syndrome after hematopoietic stem cell transplantation in pediatrics patients
24. Human β globin gene editing with application of CRISPR/Cas9 system in hematopoietic stem cells aimed at cure of β thalassemia and sickle cell anemia
25. Induced hemorrhagic cystitis with cyclophosphamide in rats
26. Tissue engineering of ovine heart by GFP-Positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
27. Comparison of cell expansion and cell transduction methods for generation of efficient chimeric receptor antigen T cells
28. Tissue engineering of ovine heart by GFP-Positive newborn rat cells seeding on the acellular myocardial flap using a novel combined bioreactor
29. Therapeutic potential of exosomes generated from human embryonic stem cell-derived Mesenchymal Stromal Cells in liver injury model
30. Effectiveness of allogeneic adipose derived mesenchymal stem cells (ADMSCs) in the phenotypic changes of Werdnig Hoffman patients
31. Effectiveness of Natural Killer cells treated with interleukines for therapy in Neuroblastoma mice Model
32. Induced hemorrhagic cystitis with cyclophosphamide in rats
33. 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
34. Hematopoietic stem cell transplantation among Diamond Blackfan Anemia patients applying Busulfan plus Cyclophosphamide \pm rATG
35. Investigation of novel mutations in patients with leukocyte adhesion deficiency-type I, Wiskott-Aldrich, DOCK8 deficiency, Severe congenital neutropenia
36. Oral mucositis prevention in patients with Fanconi Anemia undergoing Stem Cell Transplantation
37. Hematopoietic stem cell transplantation results in pediatric acquired severe aplastic anemia: Stem cell source perspective.

38. Plasma levels of vitamin A and E for thalassemic patients undergoing hematopoietic stem cell transplantation
39. Comparison of the results of one-locus HLA-mismatched Stem Cell Transplantation from relative Donors with HLA full-matched relative donors
40. Malignant infantile osteopetrosis skeletal changes following hematopoietic stem cell transplantation.
41. Extended family search: Efficiency of allogeneic stem cell transplantation from HLA fully-matched non-sibling relatives
42. 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
43. Elastography assessment of liver iron overload in patients with thalassemia major after stem-cell transplantation
44. Allogeneic Hematopoietic Stem Cell Transplantation for Patients with Hereditary Bone Marrow Failure Syndromes
45. Impact of Beta-Globin Mutations on Outcome of Hematopoietic Stem Cell Transplantation for Patients with Beta-Thalassemia Major
46. Reduced-intensity conditioning regimen for Hematopoietic Stem Cell Transplantation in primary hemophagocytic lymphohistiocytosis
47. Non-TBI Hematopoietic Stem Cell Transplantation in Pediatric Leukemia Patients
48. Evaluation of benefit and side effects of double unit umbilical cord blood stem cell transplantation in hematologic malignancies with Non-TBI regimen
49. Bone mineral density in ex-thalassemic pediatric patients
50. Study of minor histocompatibility matching with recipients between HLA-identical siblings and HLA-matched other related donors
51. Evaluation of benefit and side effect of myeloablative regimen for the treatment of malignant Osteopetrosis
52. Evaluation of benefit and side effect of myeloablative regimen for the treatment of malignant Mucopolysaccharidosis (MPS)
53. Iranian Stem Cell Donor Program
54. MRI T2* assessment of liver and heart iron overload in patients with thalassemia major after stem cell transplantation
55. Resilience, mental health and quality of life in HSCT children caregivers.
56. Daclizumab in children with corticosteroid-refractory gastrointestinal acute GVHD
57. Hepatocytes of donor origin in recipient liver of class III beta thalassmia major patients who had undergone co-transplantation of Stem cell and Mesenchymal progenitor cells
58. Evaluation of benefits and side effects of ¹³¹I-MIBG in combination with myeloablative chemotherapy and autologous bone marrow transplantation for the treatment of high- risk neuroblastoma

59. Reduced-intensity conditioning hematopoietic Hematopoietic Stem Cell Transplantation for pediatric patients with primary immunodeficiencies
60. Treatment of children suffering from CML: comparison of the result of treatment with imatinib mesylate and HSCT
61. Lorazepam for seizure prophylaxis during high-dose busulfan administration in children undergoing bone marrow transplantation
62. Quantitation of human cytomegalovirus DNA in plasma using an affordable in-house qPCR assay
63. Busulfan-based stem cell transplantation without total body irradiation in Fanconi anemia patients
64. Prevalence of hypoparathyroidism and hypothyroidism in major thalassemia patients
65. Prevalence of zinc and copper deficiency in major thalassemia patients
66. Prevalence of helicobacter pylori infection in chronic ITP children
67. Incidence of hearing loss in the newborns hospitalized in NICU

VIII. Publications

Articles

1. Willasch AM, Peters C, Sedláček P, Dalle JH, Kitra-Roussou V, Yesilipek A, Wachowiak J, Lankester A, Prete A, **Hamidieh AA**, Ifversen M, et al. EBMT Paediatric Diseases Working Party. Correction: Myeloablative conditioning for allo-HSCT in pediatric ALL: FTBI or chemotherapy?-A multicenter EBMT-PDWP study. Bone Marrow Transplant. 2021 Aug 19. doi: 10.1038/s41409-021-01424-5. Online ahead of print.
2. Niederwieser D, Baldomero H, Bazuaye N, Bupp C, Chaudhri N, Corbacioglu S, Elhaddad A, Frutos C, Galeano S, Hamad N, **Hamidieh AA**, Hashmi S, Ho A, Horowitz MM, et al. One and a half million hematopoietic stem cell transplants: continuous and differential improvement in worldwide access with the use of non-identical family donors. *aematologica*. 2021 Aug 12. doi: 10.3324/haematol.279189. Online ahead of print.
3. Amanat M, Majmaa A, Zarrabi M, Nouri M, Akbari MG, Moaiedi AR, Ghaemi O, Zamani F, Najafi S, Badv RS, Vosough M, **Hamidieh AA**, Salehi M, Montazerlotfelahi H, Tavasoli AR, Heidari M, Mohebi H, Fatemi A, Garakani A, Ashrafi MR. Clinical and imaging outcomes after intrathecal injection of umbilical cord tissue mesenchymal stem cells in cerebral palsy: a randomized double-blind sham-controlled clinical trial. *Stem Cell Res Ther*. 2021 Aug 6;12(1):439. doi: 10.1186/s13287-021-02513-4.
4. Barhoom D, Mohseni R, Behfar M, **Hamidieh AA**. Successful allogeneic stem cell transplantation with fludarabine-based reduced intensity conditioning in

- bone marrow failure syndrome 4. *Pediatr Transplant*. 2021 Jul 24:e14089. doi: 10.1111/petr.14089. Online ahead of print.
5. Ali T, Behfar M, Mohseni R, Salajegheh P, Kheder M, Abou-Fakher F, Nikfetrat Z, Jafari F, Naji P, **Hamidieh AA**. Escalated dose donor lymphocyte infusion treatment in patients with primary immune deficiencies after HSCT with reduced-intensity conditioning regimen. *Hematol Oncol Stem Cell Ther*. 2021 Jul 2:S1658-3876(21)00059-5. doi: 10.1016/j.hemonc.2021.06.002. Online ahead of print.
 6. Mohseni R, **Hamidieh AA**, Shoaee-Hassani A, Ghahvechi-Akbari M, Majma A, Mohammadi M, Nikougoftar M, Shervin-Badv R, Ai J, Montazerlotfelahi H, Ashrafi MR. An open-label phase 1 clinical trial of the allogeneic side population adipose-derived mesenchymal stem cells in SMA type 1 patients. *Neurol Sci*. 2021 May 25. doi: 10.1007/s10072-021-05291-2. Online ahead of print.
 7. Ghazizadeh Esslami G, Mamishi S, Mahmoudi S, Navaeian A, Behfar M, **Hamidieh AA**, Alimadadi H, Mahmoudieh Y. COVID-19 in transplant recipient children: An Iranian referral hospital-based study. *Acta Biomed*. 2021 May 12;92(2):e2021095. doi: 10.23750/abm.v92i2.11189.
 8. Barhoom D, Mohseni R, **Hamidieh AA**, Mohammadpour M, Sharifzadeh M, Navaeian A, Taebi S, Behfar M. Clinical Effects of COVID-19 on Hematopoietic Stem Cell Transplant Outcomes in Pediatric Patients. *Exp Clin Transplant*. 2021 May;19(5):501-507. doi: 10.6002/ect.2020.0518.
 9. Mawardi H, Treister N, Felemban O, Alamoudi W, Algohary G, Alsultan A, Alshehri N, Tazi I, Shaheen M, Alsharani M, Alshemmari S, Arat M, Bekadja MA, Al-Khabori M, Okaily S, Ali N, Abujazar H, Jastaniah W, **Hamidieh AA**, Hashmi S, Aljurf M. Current practice of oral care for hematopoietic stem cell transplant patients: A survey of the Eastern Mediterranean Blood and Marrow transplantation group. *Hematol Oncol Stem Cell Ther*. 2021 Feb 11:S1658-3876(21)00006-6. doi: 10.1016/j.hemonc.2021.01.006. Online ahead of print.
 10. Soltaninejad H, Zare-Zardini H, Ordooei M, Ghelmani Y, Ghadiri-Anari A, Mojahedi S, **Hamidieh AA**. Antimicrobial Peptides from Amphibian Innate Immune System as Potent Antidiabetic Agents: A Literature Review and Bioinformatics Analysis. *J Diabetes Res*. 2021 Jun 29;2021:2894722. doi: 10.1155/2021/2894722. eCollection 2021.
 11. Taheri M, Akbari M.T, Ostadali M, **Hamidieh A.A**, Fallah H, Shadnoush M, Arsang-Jang S, Ghafouri-Fard S, Sayad A. Assessment of association between HLA alleles and acquired aplastic anemia in Iranian population, *Ecological Genetics and Genomics*, 2021, 18, 100075.
 12. Zare-Zardini H, Ferdosian F, Soltaninejad H, Zahedi M, Memarpour-Yazdi M, **Hamidieh A.A**, et al. Antimicrobial peptides as potent compounds for

- reduction of covid-19 infection. *Bulletin of Pharmaceutical Sciences*, 2021, 44(1), pp. 243–252
13. Sadeghan AA, Soltaninejad H, Dadmehr M, **Hamidieh AA**, Asadollahi MA, Hosseini M, Ganjali MR, Hosseinkhani S. Fluorimetric detection of methylated DNA of Sept9 promoter by silver nanoclusters at intrastrand 6C-loop. *Spectrochim Acta A Mol Biomol Spectrosc.* 2021 Feb 15;247:119081. doi: 10.1016/j.saa.2020.119081. Epub 2020 Oct 22.
 14. Soltaninejad H, Zare-Zardini H, **Hamidieh A.A**, Sobhan M.R, Saeed-Banadaky S.H, Amirkhani M.A, Tolueinia B, Mehregan M, Mirakhor M, Eshaghi F.S. Evaluating the toxicity and histological effects of Al₂O₃ nanoparticles on bone tissue in animal model: A case-control study. *Journal of Toxicology*, 2020, 2020, 8870530
 15. Nejad AR, **Hamidieh AA**, Amirkhani MA, Sisakht MM. Update review on five top clinical applications of human amniotic membrane in regenerative medicine. *Placenta*. 2021 Jan 1;103:104-119. doi: 10.1016/j.placenta.2020.10.026. Epub 2020 Oct 22.
 16. Rostami T, Monzavi SM, Poustchi H, Khoshdel AR, Behfar M, **Hamidieh AA**. Analysis of determinant factors of liver fibrosis progression in ex-thalassemic patients. *Int J Hematol.* 2021 Jan;113(1):145-157. doi: 10.1007/s12185-020-02998-4. Epub 2020 Oct 8.
 17. Torkamaniha E, Amirkhani MA, Dahmardehei M, Rebullia P, Piccin A, Hortamani S, Heidari-Kharaji M, Mansouri P, **Hamidieh AA**, Nilforoushzadeh MA. Efficacy of allogeneic cord blood platelet gel on wounds of dystrophic epidermolysis bullosa patients after pseudosyndactyly surgery. *Wound Repair Regen.* 2021 Jan;29(1):134-143. doi: 10.1111/wrr.12865. Epub 2020 Oct 19.
 18. Afshar L, Aghayan HR, Sadighi J, Arjmand B, Hashemi SM, Basiri M, Samani RO, Ashtiani MK, Azin SA, Hajizadeh-Saffar E, Gooshki ES, **Hamidieh AA**, Rezania Moallem MR, Azin SM, Shariatinasab S, Soleymani-Goloujeh M, Baharvand H. Ethics of research on stem cells and regenerative medicine: ethical guidelines in the Islamic Republic of Iran. *Stem Cell Res Ther.* 2020 Sep 14;11(1):396. doi: 10.1186/s13287-020-01916-z.
 19. Sayad Arezou, Akbari mohammad taghi, Ostadali Mohammadreza, **Hamidieh Amir Ali**, et al. Comprehensive assessment of association between HLA polymorphisms and acute leukemia in Iranian population. April 2020. *Gene Reports* 19:100674. DOI: 10.1016/j.genrep.2020.100674.
 20. Hadi Zare-Zardini¹, Mehdi Shanbedi, Hossein Soltaninejad, Masoomeh Mohammadzadeh, Ahmad Amiri, **Amir Ali Hamidieh**, Farzad Ferdosian, Ashraf Alemi, Saman Hosseinkhani, Farzaneh Fesahat, Akram Astani. The Effect of Temperature and Acidity on Antimicrobial Activities of Pristine

MWCNTs and MWCNTs-Arg. *Int. J. Nanosci. Nanotechnol.* Vol. 12, No. 2, June 2020, pp. 127-136.

21. Alizadeh Zahra, Nabilou Susan, Mazinani Marzieh, Tajik Shaghayegh, **Hamidieh Amir Ali**, Houshmand Masoud, Fazlollahi Mohammad, Pourpak Zahra. Partial Albinism and Immunodeficiency in patients with Hermansky Pudlak Type II: introducing 2 novel mutations. September 2020. *Scandinavian Journal of Immunology*. DOI: 10.1111/sji.12966.
22. Zare-Zardini H, Alemi A, Taheri-Kafrani A, Hosseini SA, Soltaninejad H, **Hamidieh AA**, Haghi Karamallah M, Farrokhifar M, Farrokhifar M. Assessment of a New Ginsenoside Rh2 Nanoniosomal Formulation for Enhanced Antitumor Efficacy on Prostate Cancer: An in vitro Study. *Drug Des Devel Ther.* 2020 Aug 13;14:3315-3324. doi: 10.2147/DDDT.S261027. eCollection 2020.
23. Behfar M, Babaei M, Radmard AR, Kooraki S, Farajifard H, Naji P, Taebi S, **Hamidieh AA**. Posterior Reversible Encephalopathy Syndrome after Allogeneic Stem Cell Transplantation in Pediatric Patients with Fanconi Anemia, a Prospective Study. *Biol Blood Marrow Transplant.* 2020 Aug 27;S1083-8791(20)30513-9. doi: 10.1016/j.bbmt.2020.08.021.
24. Zare-Zardini H, Soltaninejad H, Ferdosian F, **Hamidieh AA**, Memarpoor-Yazdi M. Coronavirus Disease 2019 (COVID-19) in Children: Prevalence, Diagnosis, Clinical Symptoms, and Treatment. *Int J Gen Med.* 2020 Jul 28;13:477-482. doi: 10.2147/IJGM.S262098. eCollection 2020.
25. Kheder M, Behfar M, Farajifard H, Ali T, Hkima Abou Fakher F, **Hamidieh AA**. Fludarabine-based reduced-intensity conditioning regimen for hematopoietic stem cell transplantation in pediatric patient with IL10 receptor deficiency. *Pediatr Transplant.* 2020 Aug 26:e13819. doi: 10.1111/petr.13819. Online ahead of print.
26. Mahmoudi S, Pourakbari B, Sadeghi RH, **Hamidieh AA**, Safari Sharari A, Salajegheh P, Aziz-Ahari A, Mamishi S. High prevalence of latent tuberculosis in hematopoietic stem cell transplant recipients: A First Report. *Pediatr Transplant.* 2020 Sep;24(6):e13770. doi: 10.1111/petr.13770. Epub 2020 Jun 23.
27. Hosseini ES, Nikkiah M, **Hamidieh AA**, Fearnhead HO, Concordet JP, Hosseinkhani S. The Lumiptosome, an engineered luminescent form of the apoptosome can report cell death by using the same Apaf-1 dependent pathway. *J Cell Sci.* 2020 May 27;133(10):jcs242636. doi: 10.1242/jcs.242636.
28. Rajabzadeh A, Rahbarizadeh F, Ahmadvand D, Kabir Salmani M, **Hamidieh AA**. A VHH-Based Anti-MUC1 Chimeric Antigen Receptor for Specific Retargeting of Human Primary T Cells to MUC1-Positive Cancer Cells. *Cell J.* 2021 Jan;22(4):502-513. doi: 10.22074/cellj.2021.6917. Epub 2020 Apr 22.

29. Vahidi M, Badalzadeh M, Jannesar M, Mazinani M, Fazlollahi MR, Khodayari Namini N, Houshmand M, **Hamidieh AA**, Moradi L, Pourpak Z, Moin M. Clinical and Genetic Analysis of Nine Suspected Familial Haemophagocytic Lymphohistiocytosis Patients for MUNC13-4 Deficiency and Introducing Four Novel Mutations in UNC13D. *Iran J Allergy Asthma Immunol.* 2019 Oct 23;18(5):487-492. doi: 10.18502/ijaai.v18i5.1911.
30. Sayad A, Dehaghi MO, Taheri M, Fallah H, Arsang-Jang S, Shadnoush M, Ghafouri-Fard S, **Hamidieh AA**. Identification of HLA-A/B/DRB1 alleles in Iranian patients with Fanconi anemia. *Hum Antibodies.* 2020;28(3):221-226. doi: 10.3233/HAB-200410.
31. Sharifzad F, Mardpour S, Mardpour S, Fakharian E, Taghikhani A, Sharifzad A, Kiani S, Heydarian Y, Łos MJ, Azizi Z, Ghavami S, **Hamidieh AA**, Ebrahimi M. HSP70/IL-2 Treated NK Cells Effectively Cross the Blood Brain Barrier and Target Tumor Cells in a Rat Model of Induced Glioblastoma Multiforme (GBM). *Int J Mol Sci.* 2020 Mar 25;21(7):2263. doi: 10.3390/ijms21072263.
32. Andre Manfred Willasch, Christina Peters, Petr Sedláček, Jean-Hugues Dalle, Vassiliki Kitra-Roussou, Akif Yesilipek, Jacek Wachowiak, Arjan Lankester, Arcangelo Prete, Amir Ali Hamidieh, et al. Myeloablative conditioning for allo-HSCT in pediatric ALL: FTBI or chemotherapy?-A multicenter EBMT-PDWP study. *Bone Marrow Transplant.* 2020 Aug;55(8):1540-1551. doi: 10.1038/s41409-020-0854-0. Epub 2020 Mar 17.
33. A D Alahmari, M Aljurf , A Alseraihy, **A A Hamidieh**, S Alkindi, R Rihani , T Satti, W Jastaniah, H Alsaedi, F Almohareb, A Al-Jefri, W Rasheed. Hematopoietic stem cell transplantation for patients with sickle cell disease in the Eastern Mediterranean. *Hematol Oncol Stem Cell Ther.* 2020 Jun;13(2):106-110.
34. Behfar M, Koochakzadeh L, Yazdani N, Salajegheh P, Rostami T, Khodayari-Namini N, Ghavamzadeh A, **Hamidieh AA**. Outcome of allogeneic Hematopoietic Stem Cell Transplantation on Diamond-Blackfan anemia using busulfan-based myeloablative regimen. *Turk J Pediatr.* 2019;61(3):407-412. doi: 10.24953/turkjpmed.2019.03.013.
35. Mohammad Ali Nilforoushzadeh, Mohammad Amir Amirkhani, **Amir Ali Hamidieh**, Alexander M Seifalian, Mahsa Mollapour Sisakht. Skin regenerative medicine advancements in the Islamic Republic of Iran: a concise review. *Regen Med.* 2019 Nov;14(11):1047-1056. doi: 10.2217/rme-2018-0170.
36. Zeinab Zarei-Behjani, Masoud Soleimani, Amir Atashi, Somayeh Ebrahimi-Barough, Jafar Ai, **Amir Ali Hamidieh**. Tracking of GFP-labeled unrestricted

- somatic stem cells transplanted in the sepsis mouse model. *Tissue Cell*. 2019 Oct;60:33-37. doi: 10.1016/j.tice.2019.07.009. Epub 2019 Jul 31.
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Abstracts

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Books

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IX. Honors and Awards

1. Alborz Prize Award for Great Scientific Contribution, 2021.
2. Third Prize for Best Oral Presentation at 17th Congress of the Asia Pacific Blood and Marrow Transplantation October 26 – 28, 2012, Hyderabad, India.
3. 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.
4. 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.
5. Selected as an "Exemplary Professor" of Shariati Hospital on Teacher's Appreciation Day, 2011.
6. 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
7. ASBMT Young Investigator Award, ASBMT Tandem meetings, Feb. 24-28, 2010, Orlando, Florida
8. 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
9. Awarded the Medical Book of the Year award, entitled ANEMIA, 2006
10. Honored as the best researcher, Shahid Beheshti University of Medical Sciences, 2006