

Curriculum Vitae

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Davood Bashash

Fellowship in Clinical Laboratory Sciences,

Ph.D. of Laboratory Hematology and Blood Banking,

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Department of Hematology and Blood Banking,
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Education

➤ **Fellowship in Clinical Laboratory Sciences (2021)**

Iran University of Medical Sciences, Tehran, Iran.

➤ **Ph.D. of Laboratory Hematology (2011)**

Tehran University of Medical Sciences, Tehran, Iran.

- *Thesis Project: Induction of telomerase-dependent cell death using combination therapy of arsenic trioxide and telomerase inhibitor in acute promyelocytic leukemia cell.*

➤ **M.Sc. of Laboratory Hematology and Blood banking (2005)**

Iran Blood Transfusion Organization, Tehran, Iran.

- *Thesis Project: Detection of Minimal Residual Disease in patients with Acute Promyelocytic Leukemia using Real-Time PCR.*

➤ **B.Sc. of Medical Laboratory Sciences (2003)**

Iran University of Medical Sciences, Tehran, Iran.

➤ **A.D. of Medical Laboratory Sciences (2001)**

Rafsanjan University of Medical Sciences, Rafsanjan, Iran.

Honors and Awards

- Ranked second-position in the CLS fellowship board (2021).
- Elite researcher of Shahid Beheshti University of Medical Sciences (2019).
- Ranked first-position in the countrywide CLS fellowship entrance exam (2019).
- Elite faculty member of Shahid Beheshti University of Medical Sciences (2017).
- Ranked second-position in the countrywide Ph.D. entrance exam (2006).
- Ranked first-position in the M.Sc. course (2005).
- Ranked second-position in the countrywide M.Sc. entrance exam (2003).
- Exemption from obligatory military services for recognition as a talented student (2003).
- Ranked first-position in the A.D. course (2001).

Work Experiences

- Research Manager of National Institute for Medical Research Development (NIMAD) (2023)
- Associate Editor of Iranian Journal of Blood & Cancer (2022 to date)
- Associate Professor of Hematology and Blood Bank, Shahid Beheshti University of Medical Sciences (2018 to date).
- Assistant Professor of Hematology and Blood Bank, Shahid Beheshti University of Medical Sciences (2012-2018).
- Vice-Dean of Research, Paramedical Faculty of Shahid Beheshti University of Medical Sciences (2018-2020).
- Director of the Research Centre Laboratory, Paramedical Faculty of Shahid Beheshti University of Medical Sciences (2018-2020).
- Research director, Paramedical Faculty of Shahid Beheshti University of Medical Sciences (2015-2018).

Publications

1. Mokhtari, Y., Yousefi, AM, & **Bashash, D.** Inhibition of PI3K Signaling Intensified the Antileukemic Effects of Pioglitazone: New Insight into the Application of PPAR γ Stimulators in Acute Lymphoblastic Leukemia. *Indian J Hematol Blood Transfus.* 2023
2. Davoodi-Moghaddam Z, Jafari-Raddani F, Noori M, **Bashash D.** A systematic review and meta-analysis of immune checkpoint therapy in relapsed or refractory non-Hodgkin lymphoma; a friend or foe? *Transl Oncol.* 2023
3. Abutorabi ES, Poursheikhani A, Kashani B, Shamsaieghakani S, Haghpanah V, **Bashash D,** Mousavi SA, Momeny M, Ghaffari SH. The effects of Abemaciclib on cell cycle and apoptosis regulation in anaplastic thyroid cancer cells. *Mol Biol Rep.* 2023
4. Esmaeili S, Yousefi AM, Delshad M, **Bashash D.** Synergistic effects of PI3K inhibition and pioglitazone against acute promyelocytic leukemia cells. *Mol Genet Genomic Med.* 2023
5. Shahkarami S, Younesian S, Rostami S, Kompani F, **Bashash D,** Mousavi SA, Ghaffari SH. Minimal Residual Disease Detection Using Gene Scanning Analysis, Fluorescent Fragment Analysis, and Capillary Electrophoresis for IgH Rearrangement in Adult B-Lineage Acute Lymphoblastic Leukemia: A Cross-Sectional Study. *Cell J.* 2023
6. Kargar-Sichani Y, Mohammadi MH, Amiri V, Barzegar M, Keshavarz A, **Bashash D,** Farsani MA. Effect of Acute Myeloid Leukemia-derived Extracellular Vesicles on Bone Marrow Mesenchymal Stromal Cells: Expression of Poor Prognosis Genes. *Arch Med Res.* 2023
7. Koosha F, Kamalabadi MA, Yousefi A, **Bashash D.** COVID-19 diagnostic approaches with an extensive focus on computed tomography in accurate diagnosis, prognosis, staging, and follow-up. *Pol J Radiol.* 2023
8. Nakhaie M, Arefinia N, Charostad J, **Bashash D,** Haji Abdolvahab M, Zarei M. Monkeypox virus diagnosis and laboratory testing. *Reviews in Medical Virology.* 2023
9. Ghaffari SH, Ostfouri E, Ahmadvand M, **Bashash D,** Ghaffari P, Niavarani A, et al. The long-term outcome and efficacy of PR1/BCR-ABL multi-peptides vaccination in chronic myeloid leukemia: results of a 7-year longitudinal investigation. *IJBC.* 2022
10. Fateh K, Kashani B, Hasanpour Z, Shagerdi Esmaeli N, Amiri V, Ghaffari S H, **Bashash D.** The evaluation of TLR1, TLR2, TLR4, TLR7, and TLR8 expression levels in the newly-diagnosed acute myeloid leukemia (AML) patients. *IJBC.* 2022
11. Mizani S, Keshavarz A, Vazifeh Shiran N, **Bashash D,** Allahbakhshian M. Expression Changes of SIRT1 and FOXO3a Significantly Correlate with Oxidative Stress Resistance Genes in AML Patients. *Indian J Hematol Blood Transfus.* 2022
12. Younesian S, Yousefi AM, Momeny M, Ghaffari SH, **Bashash D.** The DNA Methylation in Neurological Diseases. *Cells.* 2022
13. Dadashi M, Pourbagheri-Sigaroodi A, Anjam-Najmedini A, **Bashash D.** Synergistic Effects of PI3K Inhibition on Arsenic Trioxide Cytotoxicity in Acute Promyelocytic Leukemia Cells: A New Portrait of Idelalisib as an Adjuvant Therapy. *Indian Journal of Hematology and Blood Transfusion.* 2022

14. Jafari- Raddani F, Davoodi- Moghaddam Z, Yousefi AM, Ghaffari Seyed H, Bashash D. **An overview of long noncoding RNAs: Biology, functions, therapeutics, analysis methods, and bioinformatics tools.** *Cell Biochemistry and Function*. 2022. Online ahead of print.
15. Shirin M, Agharezaeei M, Alizadeh S, **Bashash D**, Sheikhsaran F, Chahardouli B, Mousavi SA, Ahmadvand M, Ghaffari SH. **A Comparative Study of the Bone Marrow- and Umbilical Cord-Derived Mesenchymal Stem Cells (MSCs) Efficiency on Generating MSC-Educated Macrophages (MEMs).** *Asian Pac J Cancer Prev*. 2022;23(9):3083.
16. Vajari MK, Moradinasab S, Yousefi AM, **Bashash D**. **Noncoding RNAs in diagnosis and prognosis of graft-versus-host disease (GVHD).** *J Cell Physiol*. 2022;237(9):3480-3495.
17. Baghery Saghchy Khorasani A, Yousefi A M, **Bashash D**. **CAR NK cell therapy in hematologic malignancies and solid tumors; obstacles and strategies to overcome the challenges.** *International Immunopharmacology*. 2022; 110, 109041.
18. Barati F, **Bashash D**, Mohamadi MH, Mehrpori M, Hamidpour M. **Effect of ox-LDL and platelets on macrophages, induced M2 macrophage and foam cell.** *ARYA Atherosclerosis Journal*. 2022
19. Delshad M, Sanaei MJ, Pourbagheri-Sigaroodi A, **Bashash D**. **Host genetic diversity and genetic variations of SARS-CoV-2 in COVID-19 pathogenesis and the effectiveness of vaccination.** *Int Immunopharmacol*. 2022; 111:109128.
20. Ghaderzadeh M, Aria M, Hosseini A, Asadi F, **Bashash D**, Abolghasemi H. **A fast and efficient CNN model for B-ALL diagnosis and its subtypes classification using peripheral blood smear images.** *International Journal of Intelligent Systems*. 2022; 5113-5133.
21. Noori M, Azizi S, Abbasi Varaki F, Nejadghaderi S A, **Bashash D**. **A systematic review and meta-analysis of immune response against first and second doses of SARS-CoV-2 vaccines in adult patients with hematological malignancies.** *International Immunopharmacology*. 2022;109046.
22. Yousefi A M, Pourbagheri-Sigaroodi A, Fakhroueian Z, Salari S, Fateh K, Momeny M, **Bashash D**. **Anticancer Effects of ZnO/CNT@Fe3O4 in AML-Derived KG1 Cells: Shedding Light on Promising Potential of Metal Nanoparticles in Acute Leukemia.** *International Journal of Hematology-Oncology and Stem Cell Research*. 2022;16(3):140-150.
23. Zabihi M, Lotfi R, Yousefi A M, **Bashash D**. **Cyclins and cyclin-dependent kinases: from biology to tumorigenesis and therapeutic opportunities.** *Journal of Cancer Research and Clinical Oncology*. 2022.
24. Ghaderzadeh M, Eshraghi M A, Asadi F, Hosseini A, Jafari R, **Bashash D**, Abolghasemi H. **Efficient Framework for Detection of COVID-19 Omicron and Delta Variants Based on Two Intelligent Phases of CNN Models.** *Computational and mathematical methods in medicine*. 2022; 4838009.
25. Sanaei MJ, Razi S, Pourbagheri-Sigaroodi A, **Bashash D**. **The PI3K/Akt/mTOR pathway in lung cancer; oncogenic alterations, therapeutic opportunities, challenges, and a glance at the application of nanoparticles.** *Translational Oncology*. 2022; 18:101364.

26. Ebrahimi E, Shabestari RM, **Bashash D**, Safa M. Synergistic apoptotic effect of Mcl-1 inhibition and doxorubicin on B-cell precursor acute lymphoblastic leukemia cells. *Molecular Biology Reports*. 2022; 49(3):2025-2036.
27. Nazem S, Mirzaei A, Tavakoli-Yaraki M, Najafi T, Salami S, **Bashash D**, Shahsavari Z. Evaluation of the expression level of apoptosis and ferroptosis cell death pathways genes in patients with osteosarcoma. *Gene Reports*. 2022; 101506.
28. Sanaei MJ, Bagheri Saghchy Khorasani A, Pourbagheri-Sigaroodi A, Shahrokh S, Zali MR. **Bashash D**. The PI3K/Akt/mTOR axis in colorectal cancer: Oncogenic alterations, non-coding RNAs, therapeutic opportunities, and the emerging role of nanoparticles. *Journal of cellular physiology*. 2022; 237(3):1720-1752.
29. Mehrpouri M, Momeny M, **Bashash D**. Synergistic effects of BKM120 and panobinostat on pre-B acute lymphoblastic cells: an emerging perspective for the simultaneous inhibition of PI3K and HDACs. *Journal of Receptors and Signal Transduction*. 2022 ;42(1):100-108.
30. Seraji HR, Akbari MA, Rezvani H, **Bashash D**, Mabani M, Akbari A, Raeisi AZ, Janbabe G, Salari S. Thoracic Sarcoma: A New Glance at the Epidemiological Characteristics of Disease in Iran from 2009 to 2014. *Iranian Journal of Public Health*. 2022;51(4):860-870.
31. Nasrollahzadeh A, Momeny M, **Bashash D**, Yousefi H, Mousavi SA, Ghaffari SH. Blockade of Nuclear Factor-Kb (NF-Kb) Pathway Using Bay 11-7082 Enhances Arsenic Trioxide-Induced Antiproliferative Activity in U87 Glioblastoma Cells. *Reports of Biochemistry & Molecular Biology*. 2022;10(4):602-613.
32. Mehrpouri M, **Bashash D**, Gheydari ME, Mohammadi MH, Baghestani AR, Hamidpour M. Association Between Increased Expression Levels of SDF-1 and CXCR4 on the Platelets of Patients With Coronary Artery Disease and Low LVEF. *Iranian Heart Journal*. 2022: 23(1) 42-53.
33. **Bashash D**, Zandi Z, Kashani B, Pourbagheri-Sigaroodi A, Salari S, Ghaffari SH. Resistance to immunotherapy in human malignancies: Mechanisms, research progresses, challenges, and opportunities. *Journal of Cellular Physiology*. 2022; 237(1):346-372.
34. Moradinasab S, Pourbagheri-Sigaroodi A, Ghaffari SH, **Bashash D**. Targeting macrophage-mediated tumor cell phagocytosis: An overview of phagocytosis checkpoints blockade, nanomedicine intervention, and engineered CAR-macrophage therapy. *International immunopharmacology*. 2022; 103:108499.
35. Ghaderzadeh M, Hosseini A, Asadi F, Abolghasemi H, **Bashash D**, Roshanpoor A. Automated Detection Model in Classification of B-Lymphoblast Cells from Normal B-Lymphoid Precursors in Blood Smear Microscopic Images Based on the Majority Voting Technique. *Scientific Programming*. 2022, 4801671.
36. Hamidpour M, Jafari F, Mehrpouri M, Azarkyvan A, **Bashash D**, Khadem Maboudi A. Evaluation of relationship between biochemical parameters and osteoporosis in patients with β -thalassemia major. *Iranian Journal of Pediatric Hematology and Oncology*. 2022; 12(1): 41-8.

37. Jalilian Khave L, Zafari P, Pirsalehi A, Salari S, Baghestani A, Akbari ME, Bashash D. **Association between thrombocytopenia and platelet profile with morbidity/mortality of severe and non-severe COVID-19 patients.** *Revista da Associação Médica Brasileira.* 2021;67(11):1670-1675.
38. Sanaei MJ, Bagheri Saghchay Khorasani A, Pourbagheri-Sigaroodi A, Shahrokh S, Zali MR, **Bashash D.** **The PI3K/Akt/mTOR axis in colorectal cancer: Oncogenic alterations, non-coding RNAs, therapeutic opportunities, and the emerging role of nanoparticles.** *Journal of cellular physiology.* 2021; Online ahead of print.
39. Deravi N, Ahsan E, Fathi M, Hosseini P, Yaghoobpoor S, Lotfi R, Pourbagheri-Sigaroodi A, **Bashash D.** **Complement inhibition: A possible therapeutic approach in the fight against Covid-19.** *Reviews in Medical Virology.* 2021;e2316. Online ahead of print.
40. Khorasani ABS, Sanaei MJ, Pourbagheri-Sigaroodi A, Ghaffari SH, **Bashash D.** **CAR T cell therapy in solid tumors; with an extensive focus on obstacles and strategies to overcome the challenges.** *International Immunopharmacology.* 2021. 108260. Online ahead of print.
41. Yahyazadeh R, **Bashash D,** Ghaffari P, Kord S, Safaroghli-Azar A, Ghaffari SH. **Evaluation of hTERT, KRT7, and survivin in urine for noninvasive detection of bladder cancer using real-time PCR.** *BMC urology* 2021. 19;21(1):64
42. Mehrpouri M, Pourbagheri-Sigaroodi A, **Bashash D.** **The contributory roles of histone deacetylases (HDACs) in hematopoiesis regulation and possibilities for pharmacologic interventions in hematologic malignancies.** *International Immunopharmacology* 2021. 100:108114
43. Razani E, Pourbagheri-Sigaroodi A, Safaroghli-Azar A, Zoghi A, Shanaki-Bavarsad M, **Bashash D.** **The PI3K/Akt signaling axis in Alzheimer's disease: a valuable target to stimulate or suppress?** *Cell Stress Chaperones.* 2021. 26(6):871-887.
44. Masoumi E, Tahaghoghi-Hajghorbani S, Jafarzadeh L, Sanaei MJ, Pourbagheri-Sigaroodi A, **Bashash D.** **The application of immune checkpoint blockade in breast cancer and the emerging role of nanoparticle.** *Journal of Controlled Release* 2021. 28;340:168-187
45. Kashani B, Zandi Z, Kaveh V, Pourbagheri-Sigaroodi A, Ghaffari SH, **Bashash D.** **Small molecules with huge impacts: the role of miRNA-regulated PI3K pathway in human malignancies.** *Molecular Biology Reports* 2021. 48(12):8045-8059.
46. Ghaffarnia R, Nasrollahzadeh A, **Bashash D,** Nasrollahzadeh N, Mousavi SA, Ghaffari SH. **Inhibition of c-Myc using 10058-F4 induces anti-tumor effects in ovarian cancer cells via regulation of FOXO target genes.** *European Journal of Pharmacology* 2021. 5;908:174345
47. Sanaei MJ, Taheri F, Heshmati M, **Bashash D,** Nazmabadi R, Mohammad-Alibeigi F, Nahid-Samiei M, Shirzad H, Bagheri N. **Comparing the frequency of CD33+ pSTAT3+ myeloid-derived suppressor cells and IL-17+ lymphocytes in patients with prostate cancer and benign prostatic hyperplasia.** *Cell Biology International* 2021. 45(10):2086-2095.

48. Esmaeili S, Salari S, Kaveh V, Ghaffari SH, **Bashash D**. Alteration of PPAR-GAMMA (PPARG; PPAR γ) and PTEN gene expression in acute myeloid leukemia patients and the promising anticancer effects of PPAR γ stimulation using pioglitazone on AML cells. *Molecular Genetics & Genomic Medicine*. 2021. 9(11):e1818.
49. Abolghasemi H, **Bashash D**, Jafari R, Naseri P, Farzanehpour M, Bolandian M, Ghalavand M, Chaghush MMP, Aghamollaei H, Sediighian H, Fooladi AAI. A comparative study of laboratory findings in PCR-positive and PCR-negative COVID-19 hospitalized patients. *Irish Journal of Medical Science*. 2021. 15:1–8
50. **Bashash D**, Zandi Z, Kashani B, Pourbagheri-Sigaroodi A, Salari S, Ghaffari SH. Resistance to immunotherapy in human malignancies: Mechanisms, research progresses, challenges, and opportunities. *Journal of Cellular Physiology* 2021. Online ahead of print
51. Nasrollahzadeh A, Momeny M, Fasehee H, Yaghmaie M, **Bashash D**, Hassani S, Mousavi SA, Ghaffari SH. Anti-proliferative activity of disulfiram through regulation of the AKT-FOXO axis: A proteomic study of molecular targets. *Biochimica et Biophysica Acta (BBA)-Molecular Cell Research* 2021. 1868(10):119087.
52. Sanaei MJ, Pourbagheri-Sigaroodi A, Kaveh V, Abolghasemi H, Ghaffari SH, Momeny M, **Bashash D**. Recent advances in immune checkpoint therapy in non-small cell lung cancer and opportunities for nanoparticle-based therapy. *European Journal of Pharmacology* 2021. 15;909:174404.
53. Moradinasab S, Pourbagheri-Sigaroodi A, Zafari P, Ghaffari SH, **Bashash D**. Mesenchymal stromal/stem cells (MSCs) and MSC-derived extracellular vesicles in COVID-19-induced ARDS: Mechanisms of action, research progress, challenges, and opportunities. *International Immunopharmacology*. 2021. 97:107694.
54. Delshad M, Safaroghli-Azar A, Pourbagheri-Sigaroodi A, Poopak B, Shokouhi S, **Bashash D**. Platelets in the perspective of COVID-19; pathophysiology of thrombocytopenia and its implication as prognostic and therapeutic opportunity. *Int Immunopharmacol*. 2021. 99:107995
55. Anjam-Najmedini A, Vahabpour R, Safaroghli-Azar A, Kazemi A, Movahhed P, Momeny M, **Bashash D**. Apoptin Overexpression Efficiently Amplified Cytotoxic Effects of PI3K Inhibition Using BKM120 in Lymphoblastic Leukemia Cell Lines. *Advanced Pharmaceutical Bulletin*. 2021. Online ahead of print
56. Ghaderzadeh M, Asadi F, Hosseini A, **Bashash D**, Abolghasemi H, Roshanpour, A. Machine learning in detection and classification of leukemia using smear blood images: a systematic review. *Scientific Programming*. 2021. 9933481
57. Mabani M, Akbari ME, Rezvani H, Rahmani H, Akbari A, Raeisi A, Janbabaee G, **Bashash D**, Salari S. Incidence of Hematopoietic Sarcoma in Iranian Population. *Archives of Iranian Medicine* 2021. 1;24(6):461-466.
58. Kashani B, Zandi Z, Pourbagheri-Sigaroodi A, **Bashash D**, Ghaffari SH. The role of toll-like receptor 4 (TLR4) in cancer progression: A possible therapeutic target? *Journal of Cellular Physiology*. 2021. 236(6):4121-4137.
59. Hosseini-Baharanchi FS, Baghestani AR, **Bashash D**, Bonakchi, H, Farhangi, H. Relapse, Mortality, and the Associated Factors in Children with Acute Lymphoblastic Leukemia; a Competing Risks Analysis. *International Journal of Cancer Management*. 2021.14(5), e105920

60. Kohansal Vajari M, Shirin M, Pourbagheri-Sigaroodi A, Akbari ME, Abolghasemi H, **Bashash D**. COVID-19-related coagulopathy: A review of pathophysiology and pharmaceutical management. *Cell Biology International*. 2021. 45(9):1832-1850.
61. Zehtabcheh S, Yousefi AM, Salari S, Safa M, Momeny M, Ghaffari SH, **Bashash D**. Abrogation of histone deacetylases (HDACs) decreases survival of chronic myeloid leukemia cells: New insight into attenuating effects of the PI3K/c-Myc axis on panobinostat cytotoxicity. *Cell Biology International* 2021.45(5):1111-1121.
62. Ghaderzadeh M, Asadi F, Jafari R, **Bashash D**, Abolghasemi H, Aria M. Deep Convolutional Neural Network-Based Computer-Aided Detection System for COVID-19 Using Multiple Lung Scans: Design and Implementation Study. *Journal of Medical Internet Research*. 2021. 26;23(4):e27468.
63. **Bashash D**, Abolghasemi H, Naseri P, Cheraghali AM, Soltanpoor MJ, Imani Fooladi AA. The Association of Age, Sex, and RT-PCR Results with the Lymphocyte and Neutrophil Counts in SARS-CoV-2 Infection: A Cross-sectional Analysis of 1450 Iranian Patients with COVID-19. *Iranian Journal of Allergy, Asthma and Immunology*. 2021. 17;20(2):129-139.
64. Ghaderzadeh M, Asadi, F, Jafari R, **Bashash D**, Abolghasemi H, Aria M. Deep CNN-Based CAD System for COVID-19 Detection Using Multiple Lung CT Scans. *Journal of Medical Internet Research*. 2021. 23(4), e27468
65. Heris RS, Pourbagheri-Sigaroodi, A, Yousefi AM, **Bashash, D**. The Superior Cytotoxicity of Dual Targeting of BCR/ABL and PI3K in K562 Cells: Proposing a Novel Therapeutic Potential for the Treatment of CML. *Indian Journal of Hematology and Blood Transfusion*, 2021. 1-10
66. Akbari Dilmaghani N, Safaroghli-Azar A, Pourbagheri-Sigaroodi A, **Bashash D**. The PI3K/Akt/mTORC signaling axis in head and neck squamous cell carcinoma: Possibilities for therapeutic interventions either as single agents or in combination with conventional therapies. *IUBMB Life*. 2021. 73(4):618-642.
67. Akbari Dilmaghani N, Khoshsirat S, Shanaki-Bavarsad M, Pourbagheri-Sigaroodi A, **Bashash D**. The contributory role of long non-coding RNAs (lncRNAs) in head and neck cancers: Possible biomarkers and therapeutic targets? *European Journal of Pharmacology*. 2021. 5;900:174053
68. Delshad M, Tavakolinia N, Pourbagheri-Sigaroodi A, Safaroghli-Azar A, Bagheri N, **Bashash D**. The contributory role of lymphocyte subsets, pathophysiology of lymphopenia and its implication as prognostic and therapeutic opportunity in COVID-19. *International Immunopharmacology*. 2021. 95:107586
69. Yousefi AM, Safaroghli-Azar A, Pourbagheri-Sigaroodi A, Fakhroueian Z, Momeny M, **Bashash D**. Application of ZnO/CNT@Fe3O4nanocomposite in amplifying the anti-leukemic effect of imatinib: a novel strategy to adjuvant therapy in chronic myeloid leukemia *Biomedical Materials*. 2020 Online ahead of print.
70. Koosha F, Pourbagheri-Sigaroodi A, Bakhshandeh M, **Bashash D**. Low-dose radiotherapy (LD-RT) for COVID-19-induced pneumopathy: a worth considering approach. *International Journal of Radiation Biology*. 2021. 97(3):302-312.
71. Moradi Moraddahande F, Shameli Houjghan M, Yousefi AM, Safaroghli-Azar A, Pourbagheri-Sigaroodi A, **Bashash D**. Inhibitor of Multi-cyclin-dependent Kinases (AT7519) Reduced Survival of U937 Leukemic Cells and

- Enhanced Anti-leukemic Effect of Vincristine: A Highlight to CDK Inhibition Efficacy in Acute Leukemia.** *International Journal of Cancer Management*, 2021, 14(2), pp. 1–11, e101366
72. Bagheri Saghchay Khorasani A, Pourbagheri-Sigaroodi A, Pirsalehi A, Safaroghli-Azar A, Zali MR, **Bashash D**. **The PI3K/Akt/mTOR signaling pathway in gastric cancer; from oncogenic variations to the possibilities for pharmacologic interventions.** *European Journal of Pharmacology*. 2021. 5;898:173983
 73. Abbaszade Dibavar M, Pourbagheri-Sigaroodi A, Asemani Y, Salari S, **Bashash D**. **Extracellular vesicles (EVs): What we know of the mesmerizing roles of these tiny vesicles in hematological malignancies?** *Life Science*. 2021. 15;271:119177.
 74. Sanaei MJ, Nahid-Samiei M, Abadi MSS, Arjmand MH, Ferns GA, **Bashash D**, Rahimian G, Bagheri N. **New insights into regulatory B cells biology in viral, bacterial, and parasitic infections.** *Infection, Genetics and Evolution*. 2021. 89:104753
 75. Pirsalehi A, Salari S, Baghestani A, Sanadgol G, Shirini D, Baerz MM, Abdi S, Akbari ME, **Bashash D**. **Differential alteration trend of white blood cells (WBCs) and monocytes count in severe and non-severe COVID-19 patients within a 7-day follow-up.** *Iranian Journal of Microbiology*. 2021. 13(1):8-16
 76. Hejrati A, Hasani B, Esmaili M, **Bashash D**, Tavakolinia N, Zafari P. **Role of exosome in autoimmunity, with a particular emphasis on rheumatoid arthritis.** *International Journal of Rheumatic Diseases*. 2021. 24(2):159-169
 77. Esmaeili S, Pourbagheri-Sigaroodi A, Yousefi AM, Fakhroueian Z, Momeny M, **Bashash D**. **ZnO Q-Dots-Induced Apoptosis Was Coupled with the Induction of PPAR γ in Acute Promyelocytic Leukemia Cells; Proposing a Novel Application of Nanoparticles in Combination with Pioglitazone.** *Journal of Cluster Science*, 2021. 1-13.
 78. Mokhtari Y, Pourbagheri-Sigaroodi A, Zafari P, Bagheri N, Ghaffari SH, **Bashash D**. **Toll-like receptors (TLRs): An old family of immune receptors with a new face in cancer pathogenesis.** *Journal of Cellular and Molecular Medicine*. 2021. 25(2):639-651.
 79. Mohammad- Rezaei M, Arefnezhad R, Ahmadi R, Abdollahpour- Alitappeh M, Mirzaei Y, Arjmand MH, Gordon A. Ferns, **Bashash D**, Bagheri, N. **An overview of the innate and adaptive immune system in atherosclerosis.** *Iubmb Life*. 2021. 73(1), 64-91.
 80. Zamani-Moghaddam N, Mousavi FS, Esmaeili S, Yousefi AM, Safaroghli-Azar A, **Bashash D**. **Suppression of proteasome induces apoptosis in APL cells and increases chemo-sensitivity to arsenic trioxide: Proposing a perception in APL treatment.** *Cancer Treatment and Research Communications*. 2021. 26:100284
 81. Baakhlagh S, Kashani B, Zandi Z, **Bashash D**, Moradkhani M, Nasrollahzadeh A, Yaghmaei M, Mousavi SA, Ghaffari SH. **Toll-like receptor 4 signaling pathway is correlated with pathophysiological characteristics of AML patients and its inhibition using TAK-242 suppresses AML cell proliferation.** *International Immunopharmacology*. 2021. 90:107202.
 82. Keshavarz A, Pourbagheri-Sigaroodi A, Zafari P, Bagheri N, Ghaffari SH, **Bashash D**. **Toll-like receptors (TLRs) in cancer; with an extensive focus on TLR agonists and antagonists.** *IUBMB Life*. 2021. 73(1):10-25.

83. Zafari P, Golpour M, Hafezi N, **Bashash D**, Esmaeili SA, Tavakolinia N, Rafiei A. **Tuberculosis comorbidity with rheumatoid arthritis: Gene signatures, associated biomarkers, and screening.** *IUBMB Life*. 2021. 73(1):26-39
84. Sanaei MJ, Pourbagheri-Sigaroodi A, Kaveh V, Sheikholeslami SA, Salari S, **Bashash D**. **The application of nano-medicine to overcome the challenges related to immune checkpoint blockades in cancer immunotherapy: Recent advances and opportunities.** *Critical Reviews in Oncology/Hematology*. 2021. 157:103160
85. Azadegan-Dehkordi F, Shirzad H, Ahmadi R, **Bashash D**, Abdollahpour-Alitappeh M, Lizza F, Larussa T, Nahid-Samiei M, Rahimian G, Shafiqh MH, Bagheri N. **Increased Indoleamine 2, 3-Dioxygenase expression modulates Th1/Th17/Th22 and Treg pathway in humans with Helicobacter Pylori-Infected gastric mucosa.** *Human immunology*. 2021. 82(1):46-53.
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Thesis Supervision

Title	Student	Course	Date	Role
Investigating cell death induction using combination treatment of arsenic trioxide & siRNA telomerase inhibitor in Promyelocytic leukemic cells NB4	Leila Asghari kia	MS.c	2013	Supervisor
Investigating cell death induction using combination treatment of Doxorubicin & Melatonin in Nalm-6 lymphoblastic leukemia cells	Ramin Yoosfpoor	MS.c	2014	Supervisor
Investigation of protein S, protein C, Antithrombin and activated protein C resistance rate in patients with DVT , PE, CVA and TUS admitted to Iranian blood transfusion organization'	Zeynall Salmanpoor	MS.c	2014	Supervisor
Investigating cell death induction using combination therapy of Doxorubicin & NVP-BKM120 in Nalm-6 lymphoblastic leukemia cells	Ava Safaroghli-Azar	MS.c	2015	Supervisor
Investigating synergistic effect of non-nucleosidic telomerase inhibitor (BIBR1532) with Adriomycin in Nalm-6 pre B ALL cells	Mohadese Zareie	MS.c	2015	Supervisor
Synergistic effect of the PI3K inhibitor (CAL-101) and topoisomerase 2 inhibitor (Adriamycin) in the induction of apoptosis in ALL cell line Nalm-6	Parisa Sadreazami	MS.c	2015	Supervisor
Immunohistochemical study of CD49d (VLA4) and c-Met proto-oncogene expression in classic Hodgkin lymphoma	Shahla Kamareie	MS.c	2015	Supervisor
investigation of the Scavenger Receptor-B1 expression on platelets of patients with coronary artery disease (CAD) with atherosclerosis plaque	Parisa Nehzati	MS.c	2015	Advisor
The effect of PI3K/Akt/mTOR signaling pathway inhibition in NB4 cell line by using Idelalisib in combination with As2O3	Maryam Dadashi	MS.c	2015	Supervisor
Synergistic effect of Buparlisib and AS2O3 on cell death induction in Acute promyelocytic leukemia (NB4)	Mahda Delshad	MS.c	2015	Supervisor
Synergistic effect of extract from aerial parts of Bryonia aspera.stev.ex ledebplant and Glucocorticoid on induced apoptosis and Caspase 3, Bax and Bcl-2 genes expression in ALL partially sensitive (NALM-6) and non-sensitive (REH) to Glucocorticoid cell lines	Farzaneh Yazdanpanah	MS.c	2015	Advisor
The synergistic effects of Melatonin and Arsenic Trioxid (As_2O_3) in MCF-7 breast cancer cell line	Elahe Nooshinfar	Ph.D	2015	Advisor
Investigating molecular mechanisms of neurokinin-1 receptor (NK1R) in Nalm-6 acute lymphoblastic leukemia cells	Samaneh Bayati	Ph.D	2015	Advisor
Evaluation of the synergistic effect of PI3K inhibitor and proteasome inhibitor in induction of cell death in Multiple Myeloma cell lines	Alireza Kazemi	MS.c	2016	Supervisor
The effect of NFkB signaling pathway using Carfilzomib in NVP-BKM120-induced cell death in pre-B ALL derived Nalm-6 cells	Mohamad Reza Sadri	MS.c	2016	Supervisor
Investigating the expression levels of genes involved in Glucose metabolism in acute myeloid leukemia patients	Fatemeh Asadi	MS.c	2016	Advisor
Investigating the expression levels of genes involved in oxidative stress resistance in acute myeloid leukemia patients	Sharareh Mizani	MS.c	2016	Advisor

Investigating the molecular effects of Neurokinin 1 Receptor antagonist (Aprepitant) in Acute Promyelocytic leukemia cells (NB4)	Elham Razani	MS.c	2016	Supervisor
Design and transduction of apoptin-expressing lentiviral vector into C8166 and Nalam-6 cell lines to investigate its apoptotic activity	Ali Anjam	MS.c	2016	Supervisor
Investigating the apoptotic effect of methanolic extract from aerial parts of Centaurea albonitens in combination with Vincristine on ALL cell lines	Forouzan Bahmani	MS.c	2016	Advisor
Investigating the alteration of cancer-related microRNAs profile using telomerase inhibitor BIBR1532 in acute promyelocytic leukemia cell line	Atie Poorbagheri	MS.c	2016	Supervisor
Investigating the effect of c-Myc proto-oncogene inhibition using 10058-F4 molecule in acute lymphoblastic leukemia cells (Nalm-6)	Negar Zeineddini	MS.c	2017	Supervisor
Investigating the effect of c-Myc and PI3K co-targeting in AML cell line (U937)	Niknaam Riyahi	MS.c	2017	Supervisor
Investigating the effect of PI3K signaling pathway inhibition on the cytotoxicity of chemotherapeutic drug ATO on the breast cancer cell line (MCF-7)	Faranak Alipoor	MS.c	2018	Supervisor
Investigation of the surface expression of SDF-1, CXCR4 and CXCR7 on platelets of patients with (CAD) and interactions of these platelets with monocytes	Mahdieh Mehrpoori	Ph.D	2018	Supervisor
Evaluating the effects of new ZnO/CNT@Fe3O4 nanocomposites in CML cell line (K562) and it's stimulatory effect on Imatinib cytotoxicity	Amir Yoosefi	MS.c	2019	Supervisor
Investigation of inhibitory effect of cell cycle regulator kinases in acute myeloid leukemia cell line (KG-1)	Mitra Zabihi	MS.c	2019	Supervisor
Effects of extracellular vesicles derived from AML patients on expression of poor prognosis genes (IL6, Galectin3, Gas6) by mesenchymal stromal cells	Yasaman Kargar	MS.c	2019	Advisor
Acute myeloid leukemia-derived extracellular vesicles dampen antitumor immunity through induction of apoptosis.	Kobra Keshavarz	MS.c	2019	Advisor
Expression analysis of PI3K/Akt/c-Myc axis genes in AML patients and investigating the effect of PI3K and c-Myc inhibition in AML cell lines	Mohamad Sayyadi	Ph.D	2019	Supervisor
Investigating the effect of HDACs inhibition using Panobinostat, either as single agent or in combination with arsenic trioxide, in APL-derived NB4 cells	Mohamad Mosleh	Ph.D	2020	Supervisor
Investigating the stimulatory effect of PI3K signaling pathway inhibition using BKM120 on Imatinib cytotoxicity in K562 leukemic cells	Reza Shiri	Ph.D	2020	Supervisor
Investigating the effect of CDK inhibition using AT7519 on Chronic Myeloid Leukemia Cell line (K562) and its stimulatory effect on Imatinib cytotoxicity	Masoomeh Oghabi	MS.c	2020	Supervisor
Investigating the effect of anti-diabetic drug pioglitazone on the chemotherapy protocol of AML patients aging from 60 to 75 years old and evaluating drug's molecular mechanisms in AML cell lines.	Shadi Esmaeili	Ph.D	2020	Supervisor
Investigating the effect of histone deacetylases (HDACs) enzymes inhibition using Panobinostat on the cytotoxicity of Imatinib on CML cell line (K562).	Sara Zehtabche	MS.c	2020	Supervisor
The assessment of TLR1, TLR2, TLR4, TLR7 and TLR8 gene expression in newly diagnosed acute myeloid leukemia (AML) patients.	Kosar Fateh	MS.c	2020	Supervisor
Evaluation of microRNA-223, 126, 484, 130a, 28a expression in platelets microparticles of patients with acute coronary syndrome.	Mohamadreza Shirazi	MS.c	2020	Advisor
Investigating the expression significance of genes (STAT3, STAT5, c-Myc, P27, FLT-3) and LncRNAs (HOTA1RMA1, PVT1, CRNDE) associated with PIM-	Naser Esmaeili	Ph.D	2022	Supervisor

Kinase pathway in AML patients.				
Investigating the effect of PPAR α stimulation by Pioglitazone on PI3K signaling pathway inhibition with CAL-101 on acute lymphoblastic leukemia cell line (NALM-6)	Yazdan Mokhtari	MS.c	2022	Supervisor
Investigating the apoptosis effect of Gaillardin on acute promyelocytic leukemia cell line (HL-60)	Hanieh Noormohamadi	MS.c	2022	Advisor
Investigating the inhibitory effects of BKM120 on PI3K signaling pathway inhibition in SW480 cell line	Sepideh Chodari	MS.c	2022	Supervisor
Investigating the inhibitory effects of BKM120 on PI3K signaling pathway inhibition in A549 cell line	Sara Razi	MS.c	2022	Supervisor
The efficacy of Pentoxifylline in suppressing the regulatory T (T reg) cells in multiple myeloma (MM) patients undergoing autologous hematopoietic stem cell transplantation and its impact on disease outcome	Samare Younesian	Ph.D	2022	Supervisor
Identification of Prognostic Immune-Related Gene Signature in Multiple Myeloma Based on Bioinformatics Analysis	Farideh Jafari	MS.c	2022	Supervisor
Identification of Prognostic Immune-Related Gene Signature in DLBCL Based on Bioinformatics Analysis	Zeinab Davoodi-Moghadam	MS.c	2022	Supervisor

Books

In English:

Ghaffari SH, ~~Bashash~~ D. Reciprocal Interconnection of miRNome-Epigenome in Cancer Pathogenesis and Its Therapeutic Potential. *Epigenetics Territory and Cancer, Springer. 2015.*

In Persian:

1. Translation of **Platelet and Megakaryocytes, Prospective and Techniques, Volume 1.**
2. Translation of **Platelet and Megakaryocytes, Prospective and Techniques, Volume 2.**
3. Translation of the **Henry's clinical diagnosis and management by laboratory methods, 21st edition, 2007.**
4. Translation of the **Henry's clinical diagnosis and management by laboratory methods, 22st edition, 2011.**
5. **Algorithmic Cellular and Molecular Immunology, 2nd Edition, 2013.**
6. **Cellular and Molecular Immunology, Question and Answer, 2014.**
7. **Hematology (Hematopoiesis and Anemia), 2013.**

Teaching Experiences

- Immunology for undergraduate students at Shahid Beheshti University of Medical Sciences (2019 to date).
- Molecular Immunology for M.Sc. students at Shahid Beheshti University of Medical Sciences (2013 to date).
- Molecular Hematology for PhD students at Shahid Beheshti University of Medical Sciences (2014 to date)
- Molecular Hematology & Blood Banking for M.Sc. students at Shahid Beheshti University of Medical Sciences (2011 to date).
- Molecular Hematology & Blood Banking for undergraduate students at Tehran University of Medical Sciences (2006-2011).
- Molecular Hematology & Blood Banking for M.Sc. students at Tehran University of Medical Sciences (2008-2010).
- Molecular Hematology for undergraduate students at Iran University of Medical Sciences (2007).