CURRICULUM VITAE

Bahman Yousefi, Ph.D

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- https://scholar.google.com/citations?user=-ucs1tIAAAAJ&hl=en
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- https://www.linkedin.com/in/dr-bahman-yousefi-aa877069/

RESEARCH INTEREST

My research interest is focused on three main aspects of cancer biology: i) the study of how oncogenic signaling drives cancer metabolic adaptation mechanisms, modifying ii) the study of metabolic/signaling crosstalk between tumor cells and tumor microenvironment and iii) finding new strategies for cancer gene therapy. The final goal is to discover new molecules that can be exploited as therapeutic targets.

My place in the field: i) World's Top 1% Higley Cited Researcher according to Essential Science Indicators and Clarivate Analytics ii) First-Ranked among 409 biochemists that work in Iranian medical universities.

EDUCATIONS

2012 - 2016 Ph.D degree in Clinical Biochemistry, Tabriz University of Medical Sciences, Iran

Thesis: Role of the PPARs and its relation with PI3K/mTOR signaling pathway in doxorubicin resistant human chronic myeloid leukemia cells.

Overall GPA:18.32/20

2009 – 2012 M.Sc. degree in Clinical Biochemistry, Tabriz University of Medical Sciences, Iran

Thesis: Study of PPARα and ERK-MAPK signaling pathway effect on the Δ6- and Δ9-desaturase genes expression and fatty acid composition of HepG2 cell line

Overall GPA:18.58/20

2004-2009 B.Sc. degree in Biology, University of Tabriz, Iran

Overall GPA:15.58/20

KEY RESPONSIBILITIES

2022- now Associate professor at Tabriz University of Medical Sciences (TUMS)

2016 - 2022 Assistant professor at Tabriz University of Medical Sciences (TUMS)

2107 - now Director of Clinical Laboratory at Shohada Hospital, Tabriz, Iran

2018 - now Head of Clinical Research and Development Unit of Shohada Hospital

2018 - 2020 Technical Director of Clinical Laboratory at Razi Hospital, Tabriz, Iran

2015 - 2017 Head of Molecular Targeted Therapy Research Group, TUMS

HONORS AND AWARDS

2022 One of World's Top 1% Higley Cited Researchers according to Essential Science Indicators and Clarivate Analytics

2022 The Best Medical Researcher in East Azerbaijan Province, Iran

2022 First-Ranked among 409 biochemists that work in Iranian medical universities

2021 One of World's Top 2% Higley Cited Researchers according to Essential Science Indicators and Clarivate Analytics

2020 One of World's Top 2% Higley Cited Researchers according to Essential Science Indicators and Clarivate Analytics

2019	The Best Young Researcher in Iran, honored by Ministry of Health and Medical Education
2019	As the head of the Clinical Research Development Unit, I was able to bring this unit to the Second Place between all research unit in the country and first rank in the university among various units
2018	2nd-ranked Best Researcher in Tabriz University of Medical Sciences (TUMS)
2018	As an instructor of the Olympiad in basic sciences, I helped the team to win 14 gold, silver and bronze medals in country
2017	1st Rank Best Researcher in TUMS
2016	1st Rank Best Researcher in TUMS
2015	Selected as top Young Researcher by Biochemical Society of Iran
2015	Selected as Top Young Researcher of Iranian Society of Laboratians in country
2015	The best PhD thesis of TUMS
2014	Top PhD student of Country, honored by the President of Iran
2014	Selected as Top Talented Student Researcher in Ministry of Health and Medical Education
2013- now	Member of Iran's National Elites Foundation

ADMINISTRATIVE EXPERIENCES

2020 - now	Founding member, Molecular Medicine Research Center, TUMS
2019 - now	Member of the Research Council Board, Molecular Medicine Research, TUMS
2019 - now	Secretary of Operation Committee of Laboratory Services, TUMS
2018 - now	Member of Accreditation Committee of Education and Research of Shohada Hospital
2017 - now	Member of the Research Council Board, Immunology Research Center, TUMS
2018 - 2022	Member of executive team, Iran Northwestern Central Biobank
2018 - 2019	Member of the Research Council Board, Aging Research Institute
2018 - 2019	Member of the Research Council Board, Stem Cells Research Center, TUMS
2017 - 2020	Counseling professor to support talented and brilliant students

PROFISSIONAL ASSOSSTIONS

- Biochemical Society of Iran
- Member of Iran's National Elites Foundation

- Iranian Society of Physiology and Pharmacology

MEMBER of EDITORIAL BOARD

2022 Invited as Guest Editor *Genes* (Impact Factor: 4.1); Published by MDPI

Link: https://www.mdpi.com/journal/genes/special_issue_flyer_pdf/05Y098QAG8/web

2021 Invited as Guest Editor, *Chemical Biology and Drug Design* (Impact Factor: 2.8)

Link: https://onlinelibrary.wiley.com/page/journal/17470285/homepage/cfp#rna

2021 Invited as Guest Editor, *Biochimie;* (Impact Factor: 4.08); Published by Elsevier

Link: https://www.sciencedirect.com/science/article/abs/pii/S030090842200267X

JOURNAL REVEWER

Reviewing more than 120 papers for ISI peer reviewed journals for example:

Biomaterials (IF: 15.3), *Redox Biology* (IF:11.8), *Journal of Control Release* (IF:11.4), *Biomedicine & Pharmacotherapy* (IF:6.5), , *European Journal of Pharmacology* (IF:4.4), *Biochimie* (IF: 4.2), *Critical Reviews in Food Science and Nutrition* (IF: 11.2), Journal of Cellular Physiology(IF:6.7), *DNA Repair* (IF:4.2), *Experimental Cell Research* (IF:3.9), *Chemico-Biological Interactions* (IF:5.1), *Gene* (IF:5.2).

PUBLICATIONS OVERVIEW

- **Papers:** 230
- **Citations:** 20,880
- **H-index:** 52
- **i10-index**:164
- **Corresponding-Author Papers:** 113
- **First-Author Papers:** 13
- **Citations per Papers:** 90.74

INTERNATIOL COLLABORATIONS

International Papers: 47

- United State of America: 15
- Canada: 9
- Australia: 4
- Sweden: 3
- Spain: 5
- China: 9
- Brazil: 5
- Turkey: 4
- Germany: 3
- Azerbaijan: 6

SOME of PUBLICATIONS

1. M Vaghari-Tabari, N Targhazeh, S Moein, D Qujeq, F Alemi, M Majidina, **B Yousefi*.** From inflammatory bowel disease to colorectal cancer: what's the role of miRNAs? Cancer Cell International 22 (1), 1-21. 2022.
2. Homayoonfal M, Asemi Z, **Yousefi B***. Potential anticancer properties and mechanisms of thymoquinone in osteosarcoma and bone metastasis. *Cell Mol Biol Lett*. Mar 2;27(1):21. 2022.
3. Sadoughi F, Mirsafaei L, Dana PM, Hallajzadeh J, Asemi Z, Mansournia MA, Montazer M, Hosseinpour M, **Yousefi B**. The role of DNA damage response in chemo-and radio- resistance of cancer cells: Can DDR inhibitors sole the problem? *DNA repair*. 2021;101:103074.
4. Sadoughi F, Maleki Dana P, Asemi Z, **Yousefi B**. Targeting microRNAs by curcumin: implication for cancer therapy. *Critical Reviews in Food Science and Nutrition*. 2021:1-12.
5. Mohammad Mirza‐Aghazadeh‐Attari, Ainaz Mihanfar, **Bahman Yousefi** and Maryam Majidinia. Nanotechnology‐based advances in the efficient delivery of melatonin. Cancer Cell International 2022 22:43.
6. The role of polyphenols in overcoming cancer drug resistance: a comprehensive review. Maleki Dana P, Sadoughi F, Asemi Z, **Yousefi B**. *Cell Mol Biol Let*t. 2022 Jan 3;27(1):1
7. Valizadeh A, Asghari S, Mansouri P, Alemi F, Majidinia M, Mahmoodpoor A, **Yousefi B**. The Roles of Signaling Pathways in Cardiac Regeneration. *Current medicinal chemistry*. 2022.
8. A Karimian, M Majidinia, A Moliani, F Alemi, Z Asemi, **B Yousefi***, et al. The modulatory effects of two bioflavonoids, quercetin and thymoquinone on the expression levels of DNA damage and repair genes in human breast, lung and prostate cancer cell lines. Pathology-Research and Practice, 154143.
9. F Malakoti, E Mohammadi, M Akbari Oryani, D Shanebandi, **B Yousefi***, et al. Polyphenols and

inflammatory bowel disease: Natural products with therapeutic effects? Critical Reviews in Food Science and Nutrition, 1-17. 2022.

10. **Yousefi B**, Kokhaei P, Mehranfar F, Bahar A, Abdolshahi A, Emadi A, Eslami M. CircRNAs: A novel strategy in diagnosis and treatment of thyroid cancer
11. Vaghari-Tabari M, Mohammadzadeh I, Qujeq D, Majidinia M, Alemi F, Younesi S, Mahmoodpoor A, Maleki M, **Yousefi B***, Asemi Z. Vitamin D in respiratory viral infections: a key immune modulator? *Critical Reviews in Food Science and Nutrition*. 2021:1-16.
12. Targhazeh N, **Yousefi B**, Asghari S, Mohammadnejhad R, Mansouri P, Valizadeh A. MiR- 622 acts as a tumor suppressor to induce cell apoptosis and inhibit metastasis in human prostate cancer. *Andrologia*. 2021;53(9):e14174.
13. Yousefi L, Osquee HO, Ghotaslou R, Rezaee MA, Pirzadeh T, Sadeghi J, Hemmati F, **Yousefi B**, Moaddab SY, Yousefi M. Dysregulation of lncRNA in Helicobacter pylori- Infected Gastric Cancer Cells. *BioMed Research International*. 2021;2021.
14. Maleki Dana P, Sadoughi F, Mirzaei H, Asemi Z, **Yousefi B***. DNA damage response and repair in the development and treatment of brain tumors. *Eur J Pharmacol*. 2022.Apr 14;924:174957.
15. Valizadeh A, Sayadmanesh A, Asemi Z, Alemi F, Mahmoodpoor A, **Yousefi B**. Regulatory Roles of the Notch Signaling Pathway in Liver Repair and Regeneration: A Novel Therapeutic Target. *Current Medicinal Chemistry*. 2021;28(41):8608-26.
16. Valizadeh A, Asghari S, Bastani S, Sarvari R, Keyhanvar N, Razin SJ, Khiabani AY, **Yousefi B**, Yousefi M, Shoae-Hassani A. Will stem cells from fat and growth factors from blood bring new hope to female patients with reproductive disorders? *Reproductive Biology*. 2021;21(2):100472.
17. R Pourakbari, M Yousefi, B Khalilzadeh, MH Irani-nezhad, A Khataee, Aghebati-Maleki, Alireza Soleimanian, Amin Kamrani, Forough Chakari-Khiavi, Abolhasan, Motallebnezhad, Farhad Jadidi-Niaragh, **B Yousefi**, Samadi Kafil, Hojjat-Farsangi, Rashidi. Early stage evaluation of colon cancer using tungsten disulfide quantum dots and bacteriophage nano-biocomposite as an efficient electrochemical platform. Cancer Nanotechnology 13 (1), 1-17
18. **Yousefi B**, F Sadoughi, Z Asemi, MA Mansournia, J Hallajzadeh. Novel Perspectives for the Diagnosis and Treatment of Gynecological Cancers using Dysregulation of PIWI Protein and PiRNAs as Biomarkers. *Curr Med Chem. 2023. PMID: 36786140*
19. N Targhazeh, KJ Hutt, AL Winship, R Reiter**, B Yousefi***. Melatonin as an oncostatic agent: Review of the modulation of tumor microenvironment and overcoming multidrug resistance. Biochimie. 2022.
20. F Malakoti, E Mohammadi, M Akbari Oryani, D Shanebandi, **B Yousefi*.** Polyphenols target miRNAs as a therapeutic strategy for diabetic complications. Critical Reviews in Food Science and Nutrition, 1-17. 2022.
21. Sadoughi F, Hallajzadeh J, Mirsafaei L, Asemi Z, Zahedi M, Mansournia MA, **Yousefi B**. Cardiac fibrosis and curcumin: a novel perspective on this natural medicine. *Molecular Biology Reports*. 2021;48(11):7597-608.
22. Sadoughi F, Hallajzadeh J, Asemi Z, Mansournia MA, **Yousefi B**. Nanocellulose-based delivery systems and cervical cancer: Review of the literature. *Current pharmaceutical design*. 2021;27(46):4707-15.
23. Sadoughi F, Hallajzadeh J, Asemi Z, Mansournia MA, Alemi F, **Yousefi B**. Signaling pathways involved in cell cycle arrest during the DNA breaks. *DNA repair*. 2021;98:103047.

24. Sadoughi F, Dana PM, Hallajzadeh J, Asemi Z, Mansournia MA, **Yousefi B**. Coagulopathy: Another side effect of coronavirus infection. *Journal of cardiovascular and thoracic research*. 2021;13(1):15.

25. Sadoughi F, Dana PM, Asemi Z, **Yousefi B**. DNA damage response and repair in osteosarcoma: defects, regulation and therapeutic implications. *DNA repair*. 2021;102:103105.

26. Rameshknia V, Movahhedi M, Akhavan A, Majidinia M, **Yousefi B**. Effect of Melatonin on Reversing Multidrug Resistance by Targeting Phosphatase and Tensin Homolog in Leukemia Cancer Cells. *Iranian Red Crescent Medical Journal*. 2021;23(7).

27. Pazhooh RD, Farnood PR, Asemi Z, Mirsafaei L, **Yousefi B**, Mirzaei H. mTOR pathway and DNA damage response: A therapeutic strategy in cancer therapy. *DNA repair*. 2021;104:103142.

28. Ozma MA, Khodadadi E, Pakdel F, Kamounah FS, Yousefi M, **Yousefi B**, Asgharzadeh M, Ganbarov K, Kafil HS. Baicalin, a natural antimicrobial and anti-biofilm agent. *Journal of Herbal Medicine*. 2021;27:100432.

29. Ni G, **Yousefi B**, Qujeq D, Marjani A, Asadi J, Wang Z, Mir SM. Melatonin and doxorubicin co-delivered via a functionalized graphene-dendrimeric system enhances apoptosis of osteosarcoma cells. *Materials Science and Engineering: C*. 2021;119:111554.

30. Mohammadi E, Sadoughi F, Younesi S, Karimian A, Asemi Z, Farsad-Akhtar N, Jahanbakhshi F, Jamilian H, **Yousefi B**. The molecular mechanism of nuclear signaling for degradation of cytoplasmic DNA: Importance in DNA damage response and cancer. *DNA repair*. 2021;103:103115.

31. Mirza-Aghazadeh-Attari M, Recio MJ, Darband SG, Kaviani M, Safa A, Mihanfar A, Sadighparvar S, Karimian A, Alemi F, Majidinia M. DNA damage response and breast cancer development: Possible therapeutic applications of ATR, ATM, PARP, BRCA1 inhibition. *DNA repair*. 2021;98:103032.

32. Mihanfar A, **Yousefi B**, Darband SG, Sadighparvar S, Kaviani M, Majidinia M. Melatonin increases 5-flurouracil-mediated apoptosis of colorectal cancer cells through enhancing oxidative stress and downregulating survivin and XIAP. *BioImpacts: BI*. 2021;11(4):253.

33. Mihanfar A, Targhazeh N, Sadighparvar S, Darband SG, Majidinia M, **Yousefi B**. Doxorubicin loaded magnetism nanoparticles based on cyclodextrin dendritic-graphene oxide inhibited MCF-7 cell proliferation. *Biomolecular Concepts*. 2021;12(1):8-15.

34. Mihanfar A, Darband SG, Sadighparvar S, Kaviani M, Mirza-Aghazadeh-Attari M, **Yousefi B**, Majidinia M. In vitro and in vivo anticancer effects of syringic acid on colorectal cancer: Possible mechanistic view. *Chemico-Biological Interactions*. 2021;337:109337.

35. Maleki M, Khelghati N, Alemi F, Younesi S, Asemi Z, Abolhasan R, Bazdar M, Samadi-Kafil H, **Yousefi B**. Multiple interactions between melatonin and non-coding RNAs in cancer biology. *Chemical Biology & Drug Design*. 2021;98(3):323-40.

36. Maleki M, Golchin A, Javadi S, Khelghati N, Morovat P, Asemi Z, Alemi F, Vaghari-Tabari M, **Yousefi B**, Majidinia M. Role of exosomal miRNA in chemotherapy resistance of Colorectal cancer: A systematic review. *Chemical Biology & Drug Design*. 2021.

37. Maleki M, Golchin A, Alemi F, Younesi S, Asemi Z, Javadi S, Khiavi PA, Soleinmapour J, **Yousefi B**. Cytotoxicity and apoptosis of nanoparticles on osteosarcoma cells using doxorubicin and methotrexate: A systematic review. *European Journal of Pharmacology*. 2021;904:174131.

38. Maleki Dana P, Sadoughi F, Mansournia MA, Mirzaei H, Asemi Z, **Yousefi B**. Targeting Wnt signaling pathway by polyphenols: implication for aging and age-related diseases. *Biogerontology*. 2021;22(5):479-94.

39. Maleki Dana P, Sadoughi F, Asemi Z, **Yousefi B**. Anti-cancer properties of quercetin in osteosarcoma. *Cancer Cell International*. 2021;21(1):1-9.

40. Malakoti F, Alemi F, Younesi S, Majidinia M, **Yousefi B**, Morovat P, Khelghati N, Maleki M, Karimian A, Asemi Z. The cross-talk between signaling pathways, noncoding RNAs and DNA

damage response: Emerging players in cancer progression. *DNA repair*. 2021;98:103036.

41. Malakoti F, Alemi F, Karimzadeh H, Asemi Z, Asadi M, Ghobadi H, Soleimanpour J, **Yousefi B**. Long noncoding RNA-miRNA-mRNA axes multiple roles in osteosarcoma. *Gene Reports*. 2021;23:101090.
42. Khodadadi E, Fahmideh L, Khodadadi E, Dao S, Yousefi M, Taghizadeh S, Asgharzadeh M, **Yousefi B**, Kafil HS. Current advances in DNA methylation analysis methods. *BioMed Research International*. 2021;2021.
43. Khelghati N, Soleimanpour Mokhtarvand J, Mir M, Alemi F, Asemi Z, Sadeghpour A, Maleki M, Samadi Kafil H, Jadidi-niaragh F, Majidinia M. The importance of co-delivery of nanoparticle-siRNA and anticancer agents in cancer therapy. *Chemical Biology & Drug Design*. 2021;97(4):997-1015.
44. Kamrani A, Soltani-Zangbar MS, Shiri S, Yousefzadeh Y, Pourakbari R, Aghebati-Maleki L, Mehdizadeh A, Danaii S, Jadidi-Niaragh F, **Yousefi B**. TIGIT and CD155 as Immune- Modulator Receptor and Ligand on CD4+ T cells in Preeclampsia Patients. *Immunological Investigations*. 2021:1-16.
45. Jahanbakhshi F, Dana PM, Badehnoosh B, **Yousefi B**, Mansournia MA, Jahanshahi M, Asemi Z, Halajzadeh J. Curcumin anti-tumor effects on endometrial cancer with focus on its molecular targets. *Cancer Cell International*. 2021;21(1):1-7.
46. Hosseini F, Alemi F, Malakoti F, Mahmoodpoor A, Younesi S, **Yousefi B**, Asemi Z. Targeting Wnt/β-catenin signaling by microRNAs as a therapeutic approach in chemoresistant osteosarcoma. *Biochemical Pharmacology*. 2021;193:114758.
47. Homayoonfal M, Asemi Z, **Yousefi B**. Targeting long non coding RNA by natural products: Implications for cancer therapy. *Critical Reviews in Food Science and Nutrition*. 2021:1-29.
48. Homayoonfal M, Asemi Z, **Yousefi B**. Targeting microRNAs with thymoquinone: a new approach for cancer therapy. *Cellular & Molecular Biology Letters*. 2021;26(1):1-22.
49. Eslahi M, Sadoughi F, Asemi Z, **Yousefi B**, Mansournia MA, Hallajzadeh J. Chitosan and Wnt/β-catenin Signaling Pathways in Different Cancers. *Combinatorial Chemistry & High Throughput Screening*. 2021;24(9):1323-31.
50. Eslahi M, Maleki Dana P, Sadoughi F, Hallajzadeh J, Asemi Z, Sharifi M, Mansournia MA, **Yousefi B**. The Effects of Sterol-Related Signaling Pathways on Glioma. *Nutrition and Cancer*. 2021:1-11.
51. Eslahi M, Dana PM, Asemi Z, Hallajzadeh J, Mansournia MA, **Yousefi B**. The effects of chitosan-based materials on glioma: Recent advances in its applications for diagnosis and treatment. *International journal of biological macromolecules*. 2021;168:124-9.
52. Farnood PR, Pazhooh RD, Asemi Z, **Yousefi B**. DNA damage response and repair in pancreatic cancer development and therapy. *DNA repair*. 2021;103:103116.
53. Digesaraei TY, Tehrani SS, Abolghasemi M, Karimian A, Valizadeh A, Targhazeh N, Bastami M, Jadidi-Niaragh F, Yousefi M, Kafil HS. Critical roles of long noncoding RNAs in breast cancer (vol 235, pg 5059, 2020). *JOURNAL OF CELLULAR PHYSIOLOGY*. 2021.
54. Dana PM, Hallajzadeh J, Asemi Z, Mansournia MA, **Yousefi B**. Chitosan applications in studying and managing osteosarcoma. *International journal of biological macromolecules*. 2021;169:321-9.
55. PM Dana, F Sadoughi, RJ Reiter, **B Yousefi**, Z Asemi Potential Mechanisms of Melatonin in Osteosarcoma and Bone-Related Neoplasms: Updated Review. Mini Reviews in Medicinal Chemistry 23 (3), 290-297
56. Alemi F, Raei Sadigh A, Malakoti F, Elhaei Y, Ghaffari SH, Maleki M, Asemi Z, **Yousefi B**, Targhazeh N, Majidinia M. Molecular mechanisms involved in DNA repair in human cancers: An overview of PI3k/Akt signaling and PIKKs crosstalk. *Journal of Cellular Physiology*. 2021.

57. Akbarzadeh M, Mihanfar A, Akbarzadeh S, **Yousefi B**, Majidinia M. Crosstalk between miRNA and PI3K/AKT/mTOR signaling pathway in cancer. *Life Sciences*. 2021;285:119984.

58. **Yousefi B**, Sanaie S, Ghamari AA, Soleimanpour H, Karimian A, Mahmoodpoor A. Red cell distribution width as a novel prognostic marker in multiple clinical studies. *Indian journal of critical care medicine: peer-reviewed, official publication of Indian Society of Critical Care Medicine*. 2020;24(1):49.

59. Vaghari-Tabari M, Majidinia M, Moein S, Qujeq D, Asemi Z, Alemi F, Mohamadzadeh R, Targhazeh N, Safa A, **Yousefi B**. MicroRNAs and colorectal cancer chemoresistance: New solution for old problem. *Life Sciences*. 2020;259:118255.

60. Talebian S, Daghagh H, **Yousefi B**, Özkul Y, Ilkhani K, Seif F, Alivand MR. The role of epigenetics and non-coding RNAs in autophagy: A new perspective for thorough understanding. *Mechanisms of ageing and development*. 2020;190:111309.

61. Taghavipour M, Sadoughi F, Mirzaei H, **Yousefi B**, Moazzami B, Chaichian S, Mansournia MA, Asemi Z. Apoptotic functions of microRNAs in pathogenesis, diagnosis, and treatment of endometriosis. *Cell & Bioscience*. 2020;10(1):1-9.

62. Suntar I, Sureda A, Belwal T, Silva AS, Vacca RA, Tewari D, Sobarzo-Sánchez E, Nabavi SF, Shirooie S, Dehpour AR. Natural products, PGC-1α, and Duchenne muscular dystrophy. *Acta Pharmaceutica Sinica B*. 2020;10(5):734-45.

63. Shi X, Valizadeh A, Mir SM, Asemi Z, Karimian A, Majidina M, Safa A, Yosefi B. miRNA-29a reverses P-glycoprotein-mediated drug resistance and inhibits proliferation via up-regulation of PTEN in colon cancer cells. *European Journal of Pharmacology*. 2020;880:173138.

64. Shafabakhsh R, **Yousefi B**, Asemi Z, Nikfar B, Mansournia MA, Hallajzadeh J. Chitosan: A compound for drug delivery system in gastric cancer-a review. *Carbohydrate Polymers*. 2020;242:116403.

65. Sanches-Silva A, Testai L, Nabavi SF, Battino M, Devi KP, Tejada S, Sureda A, Xu S, **Yousefi B**, Majidinia M. Therapeutic potential of polyphenols in cardiovascular diseases: Regulation of mTOR signaling pathway. *Pharmacological research*. 2020;152:104626.

66. Salamati A, Majidinia M, Asemi Z, Sadeghpour A, Oskoii MA, Shanebandi D, Alemi F, Mohammadi E, Karimian A, Targhazeh N. Modulation of telomerase expression and function by miRNAs: Anti-cancer potential. *Life Sciences*. 2020;259:118387.

67. Sadighparvar S, Targhazeh N, Karimian A, Shafiei-Irannejad V, Farsad-Akhtar N, Rafieian S, Salamati A, Bastami M, Kafil HS, Yousefi M. Downregulation of microRNA-214 and PTEN in tissue samples of patients with breast cancer. *Meta Gene*. 2020;24:100668.

68. Sadighparvar S, Darband SG, **Yousefi B**, Kaviani M, Ghaderi-Pakdel F, Mihanfar A, Babaei G, Mobaraki K, Majidinia M. Combination of quercetin and exercise training attenuates depression in rats with 1, 2-dimethylhydrazine-induced colorectal cancer: Possible involvement of inflammation and BDNF signalling. *Experimental physiology*. 2020;105(9):1598-609.

69. Reiter R, Hallajzadeh J, Asemi Z, Mansournia M, **Yousefi B**. Melatonin as a potential inhibitor of kidney cancer: A survey of the molecular processes. *IUBMB Life*. 2020.

70. Rahimi M, Noruzi EB, Sheykhsaran E, Ebadi B, Kariminezhad Z, Molaparast M, Mehrabani MG, Mehramouz B, Yousefi M, Ahmadi R. Carbohydrate polymer-based silver nanocomposites: Recent progress in the antimicrobial wound dressings. *Carbohydrate polymers*. 2020;231:115696.

71. Pishgahi A, Abolhasan R, Danaii S, Amanifar B, Soltani-Zangbar MS, Zamani M, Kamrani A, Ghorbani F, Mehdizadeh A, Kafil HS. Immunological and oxidative stress biomarkers in ankylosing spondylitis patients with or without metabolic syndrome. *Cytokine*. 2020;128:155002.

72. Oskoii MA, Khatami N, Majidinia M, Rezazadeh M-A, Mir SM, Sadeghpour A, **Yousefi B**. Serum

level of melatonin in patients with osteoarthritis and its relation with 8-hydroxy-2- deoxyguanosine and vitamin D. *Journal of Research in Clinical Medicine*. 2020;8(1):34-.

73. Malakoti, Majidinia, Ahmadi, **Yousefi B**, Shanebandi. Quercetin Augments Cisplatin-Induced Apoptosis, DNA Damage Response, and MiR-22 Expression While It Prevents DNA Repair in Osteosarcoma Drug Res (Stuttg) 2022; 72(07): 378-384.
74. Mirza-Aghazadeh-Attari M, Reiter RJ, Rikhtegar R, Jalili J, Hajalioghli P, Mihanfar A, Majidinia M, **Yousefi B**. Melatonin: An atypical hormone with major functions in the regulation of angiogenesis. *IUBMB life*. 2020;72(8):1560-84.
75. Mirza-Aghazadeh-Attari M, Mohammadzadeh A, Mostavafi S, Mihanfar A, Ghazizadeh S, Sadighparvar S, Gholamzadeh S, Majidinia M, **Yousefi B**. Melatonin: An important anticancer agent in colorectal cancer. *Journal of cellular physiology*. 2020;235(2):804-17.
76. Mirza-Aghazadeh-Attari M, Ekrami EM, Aghdas SAM, Mihanfar A, Hallaj S, **Yousefi B**, Safa A, Majidinia M. Targeting PI3K/Akt/mTOR signaling pathway by polyphenols: Implication for cancer therapy. *Life sciences*. 2020;255:117481.
77. Mir SM, **Yousefi B**, Marjani A, Rahimi M, Qujeq D. The sensitization of melatonin in osteosarcoma cells by suppression of anti-apoptotic proteins. *Pharmaceutical Sciences*. 2020;26(2):159-64.
78. Maleki M, Zarezadeh R, Nouri M, Sadigh AR, Pouremamali F, Asemi Z, Kafil HS, Alemi F, **Yousefi B**. Graphene Oxide: A Promising Material for Regenerative Medicine and Tissue Engineering. *Biomolecular Concepts*. 2020;11(1):182-200.
79. Maleki M, Khelghati N, Alemi F, Bazdar M, Asemi Z, Majidinia M, Sadeghpoor A, Mahmoodpoor A, Jadidi-Niaragh F, Targhazeh N. Stabilization of telomere by the antioxidant property of polyphenols: Anti-aging potential. *Life Sciences*. 2020;259:118341.
80. Maleki Dana P, Reiter RJ, Hallajzadeh J, Asemi Z, Mansournia MA, **Yousefi B**. Melatonin as a potential inhibitor of kidney cancer: A survey of the molecular processes. *Iubmb Life*. 2020;72(11):2355-65.
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PROJECT ADMINSTOR

- Evaluation of the role of miRNA-346 in temozolomide-resistance in cell line of glioblastoma
  Sponsor: Tabriz University of Medical Sciences
  Year: 2022
  Grant amount: IRR 350,000,000

- The effects of thymoquinone in doxorubicin-resistance in glioblastoma cell line
  Sponsor: Tabriz University of Medical Sciences
  Year: 2021
  Grant amount: IRR 180,000,000

- Studying the molecular effect of melatonin on sensitivity of a SW40 colon cancer cell line to etoposide
  Sponsor: Tabriz University of Medical Sciences
  Year: 2020
  Grant amount: IRR 350,000,000

- Evaluation the role of miR-622 by inhibiting the expression of metastatic genes K-Ras, c-

Myc, MMP2 and MMP9 in prostate cancer cell progression
Sponsor: Tabriz University of Medical Sciences
Year: 2020
Grant amount: IRR 180,000,000

- Evaluation of miR-30c expression pattern and its effect on the progression of prostate cancer by targeting PLK1-FOXO1 pathway in DU-145 cell line
  Sponsor: Tabriz University of Medical Sciences
  Year: 2021
  Grant amount: IRR 180,000,000

- Study of the effect of thymoquinone on increasing the sensitivity to 5-fluorourecil in SW-480 colon cancer cells
  Sponsor: Tabriz University of Medical Sciences
  Year: 2020
  Grant amount: IRR 180,000,000

- Evaluation of the role of miR-205-5p in proliferation and susceptibility of prostate cancer cells in the presence of 5-fluorouracil
  Sponsor: Tabriz University of Medical Sciences
  Year: 2020
  Grant amount: IRR 650,000,000

- Investigating the role of Quercetin on expression of miR-22 and genes-related to DNA damage response in osteosarcoma cell line.
  Sponsor: Tabriz University of Medical Sciences
  Year: 2019
  Grant amount: IRR 180,000,000

- Determination of HOTAIRM1 Non-coding RNA Expression and its Relation to Clinical Pathological Findings in Breast Cancer Tumor Specimens
  Sponsor: Tabriz University of Medical Sciences
  Year: 2019
  Grant amount: IRR 120,000,000

- Study the effect of cisplatin with melatonin on expression of miR-181b, CYLD,CBX-7,BCL2 and p53 in MG-63 osteosarcoma cells
  Sponsor: Tabriz University of Medical Sciences
  Year: 2019
  Grant amount: IRR 120,000,000

- Investigating the expression of miR-29, miR346, miR429 and miR-106b In acute Kidney

injury and its relationship with severity disease.
Sponsor: Tabriz University of Medical Sciences
Year: 2019
Grant amount: IRR 160,000,000

- Investigating the role of Thymoquinone in increasing the rate of Cisplatin-induced apoptosis through oxidative DNA damage in Saso-2cancer cells
  Sponsor: Tabriz University of Medical Sciences
  Year: 2018
  Grant amount: IRR 120,000,000

- Design of magnetism nanoparticles based on cyclodextrin dendritic-graphene oxide with melatonin to enhance the efficacy of doxorubicin to apoptotic processes
  Sponsor: Tabriz University of Medical Sciences
  Year: 2018
  Grant amount: IRR 220,000,000

- Evaluation of miRNA-29a role in doxorubicin drug resistance in HT-29 colon cancer cells
  Sponsor: Tabriz University of Medical Sciences
  Year: 2018
  Grant amount: IRR 250,000,000

- The study of corrwlation between miR-181and miR-34a with FGF21, 53BP1and DNA damage response process in progression of cell aging and cancer proliferation
  Sponsor: Tabriz University of Medical Sciences
  Year: 2018
  Grant amount: IRR 60,000,000

WORKSHOPS

Holding workshop on biomedical research methods in 21st Internarial Physiology and Pharmacology Congress (Iran) including:

- Western blotting,
- Electrophoresis
- qRT-PCR

TEACHING RECORD

- Medical Biochemistry (both theoretical and applied courses) in Tabriz University of Medical Sciences, to the following students and levels:
  - *Doctoral level:* Medicine students - Pharmacology students
  - *MSc level:* Master students of Clinical Biochemistry and Microbiology in faculty of medicine
  - *Bachelor level:* Nursing and Midwifery students; Paramedicine and Laboratory Sciences students
- Molecular Biology: PhD students of Anatomy and Biochemistry
- Metabolism: M.Sc. students

SUPERVISORS

Thesis supervisor for 25 PhD, Msc and MD students.

CLINICAL EXPERIENCE

Skilled in all techniques used in a hospital laboratory. I have been the head of the medical laboratory of Shohada Hospital which is one of the main hospitals in the northwest of Iran. I am responsible for the overall operation and administration of the laboratory, including the employment of competent personnel, equipment, safety, laboratory policies, quality assurance, all testing (including proficiency testing) and test reports. I have been honored many times by the head of the hospital for my good performance. In addition, I was selected and honored as the best young clinical biochemist in our country by Iranian Society of Laboratorian.

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