CURRICULUM VITAE

Maliheh Safavi, Bsc, Msc and PhD

PERSONAL INFORMATION:

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Present and previous positions:

1. Head of Biotechnology Department, Iranian Research Organization for Science and Technology (2022-present).

2. Deputy of Biotechnology Department, Iranian Research Organization for Science and Technology (2018-2022).

3. Associate professor at Department of Biotechnology, Iranian Research Organization for Science and Technology, Tehran, Iran (2019-present).

4. Manager of Refference Lab of Iranian Research Organization for Science and Technology (2017-2018).

5. Assistant professor at Department of Biotechnology, Iranian Research Organization for Science and Technology, Tehran, Iran (2013-2019).

6. Researcher in Faculty of Pharmacy and Pharmaceutical Sciences Research Center, Tehran University of Medical Sciences (2006-2008).

7. Researcher in Cancer Institute of Imam Khomeini Hospital, Tehran University of Medical Sciences, (2003-2006).

Education:

1. Postdoctoral researcher, Pharmacology Faculty, Tehran University of Medical Sciences, Tehran, Iran (2013 March- 2013 November)

2. PhD in Biochemistry, Institute of Biochemistry and Biophysics, University of Tehran, Tehran, Iran(2008 October-2013 March)

3. MSc in Clinical Biochemistry, Tabriz University of Medical Sciences, Faculty of Medicine (2001-2003).

4. BSc in Biology. Guilan University (1998-2001).

Teaching experience:

Courses Taught:

-Bioprocessing of Materials in Microorganisms (Ph.D students)
-Modern subjects in cellular and molecular biology (Ph.D students)
-Cellular and Molecular Processes in Eukaryotes (Ph.D students)
-Metabolic Engineering (Ph.D students)
-Cellular and Molecular Biology of Cancer (Ph.D students)
-Medicinal Chemistry for Master students (Ph.D students)
- Biochemistry of Membrane (Ph.D students)
-Advanced Research Methodology (Ph.D students)
-Macromolecules Structure and Function (Master students)
-Tissue & Cell Culture (Bsc students)
-Animal Biotechnology (Bsc students)
-General Biochemistery (Bsc students)
-Biochemistry of Hormone (Bsc students)
-Biochemistry of Carbohydrates and Lipides (Bsc students)

Research Experiences

Involving in 65 project as co-investigator since 2008

Principal Investigator in (Some projects are included):

Current projects (PI):

1. Extraction and investigation of photoprotective and cytoprotective effects of phytosterols from green pistachio brain and skin. (Joint project between IROST & Pistachio Research Center of Damghan University)

2. Hazard Assessment and Cytotoxicity of Nanomaterials. (TWAS-UNESCO)

3. **Administration Manager in a Master Project including four sub-projects:**

   Extraction, purification and characterization of Heparin from bovine intestinal mucosa (Bench to Semi-Industerial Phase).

Terminated Projects (PI):

1. Design and Synthesis of Mesoporous Nano Silica Vehicle for siRNA delivery against EGFR1 in a Human Breast Cancer cell line. (National Cancer Control Charity Foundation)

2. Evaluation of anticancer properties and tyrosine kinase inhibitory activity of polycyclic aromatic heterocycles. (Grant from Pharma-Company)

3. Anticancer and antioxidant activities of green microalgae isolated from Queshm and Persian Gulf on breast cancer cell lines.(Center for International Scientific Studies and Collaboration(CISSC) and National Institute for Medical Research Development)

4. Evaluation of anticancer and antioxidant activities of marine microalgae from Iran (Research Grant agreement TWAS-UNESCO)

5. *In vi*tro anticancer and antioxidant activity of essential oil and extract of from ipomoea leaves against human cancer cell lines and their molecular mechanism. (Joint project between IROST & Semnan University)

6. Synthesis and evaluation of in vitro anticancer activity of quinazoline derivatives. (Pharmaceutical Sciences Research Center; PSRC)

7. *In-vitro* anti-cancer and apoptosis inducing activity of some synthetic compounds on several human cancer cell lines (Tehran University of Medical Sciences)

8. Design, synthesis and evaluation of anti-cancer activity of novel benzo[7,8]chromeno [2,3-d]pyrimidin as tyrosin kinase inhibitors. (Iran National Science Foundation; INSF)

9. Evaluation of complexes of 2-hydroxyacetophenone semicarbazones as novel series of superoxide dismutase mimetics. (Pharmaceutical Sciences Research Center; PSRC)

Professional expertise:

1. PhD thesis title: Evaluation of synergistic cytotoxic activity of flavanon derivatives with Toll like receptor 3 agonist on three cancer cell line.

2. Msc thesis title: Relationship between microalbuminuria and extension of coronary atherosclerotic lesions.

3. Evaluation of engineered nanomatherials.

4. Study on microalgae and natural resources for bioactive compounds.

5. Evaluation of anti-cancer activity and cell death mechanism of synthetic and natural compounds (MTT test, Flow cytometry, Fluorescence microscope method, Enzym assay, western blotting, confocal microscopy…).

6. Synthesis nanoparticls for gene delivery

7. Experience in Cytogenetics for two (2) years. (Including: karyotype and chromosome analysis by method G-banding.)

Honors and Awards:

1. Several Internatiinal and Natinal grants (TWAS-UNESCO)
2. Distingushed Researcher in IROST (2015, 2022 and 2023)
3. PhD in Tehran University Second Grade: Thesis score: 20/20 (2013-PhD)
4. FIRST Grade in ranking- Tabriz University (2004 – Msc)
5. FIRST Grade in ranking -Guilan University (2001- Bsc)

Publications:

International Chapter Book:

1. Mahi Mhatre, Simranjit Kaur, Muktika Tekade, **Maliheh Safavi** and Rakesh Kumar. Tekade. Book: Public Health and Toxicology Issues in Drug Research. Volume 2: Toxicity and Toxicodynamics. Chapter 25- Principles of management of acute poisoning. (Elsevier), 2024, Pages 707-734. https://doi.org/10.1016/B978-0-443-15842-1.00027-2.

2. Suryanarayana Polaka, Muktika Tekade, Nupur Vasdev, Tanisha Gupta, Bhakti Pawar, **Maliheh Safavi**, Rakesh Kumar Tekade. Book: Essentials of Pharmatoxicology in Drug Research, Volume 1. Chapter 4 - Exosomes as mediators of chemical-induced toxicity. Academic Press (ScienceDirect) 2023, Pages 97-112. https://doi.org/10.1016/B978-0-443-15840-7.00007-5.

3. Rachna Gupta, Kuldeep Rajpoot, Muktika Tekade, Mukesh Chandra Sharma, **Maliheh Safavi,** Rakesh Kumar Tekade. Book: Pharmacokinetics and Toxicokinetic Considerations. Chapter 2 - Factors influencing drug toxicity. Academic Press (ScienceDirect) 2022, Pages 27-50. https://doi.org/10.1016/B978-0-323-98367-9.00014-7.
4. Kuldeep Rajpoot, Rakesh Kumar Tekade, Mukesh Chandra Sharma, **Maliheh Safavi,** Muktika Tekade. Book: Biopharmaceutics and Pharmacokinetics Considerations. Chapter 9 - Pharmacokinetics modeling in drug delivery. Academic Press (ScienceDirect) 2021, Pages 279-334. https://doi.org/10.1016/B978-0-12-814425-1.00009-7.

5. Kuldeep Rajpoot, **Maliheh Safavi**, Nagaraja Sreeharsha, Rakesh K Tekade. Book: The Future of Pharmaceutical Product Development and Research. Chapter 11 - Recent advances in regenerative medicine. Academic Press (ScienceDirect) 2020, Pages 367-412. https://doi.org/10.1016/B978-0-12-814455-8.00011-6.

International Papers:

1. Emamgholipour Z, Dabirian S, Peytam F, Moghadam ES, Firoozpour L, ***Safavi M***, Sadat-Ebrahimi SE, Barazandeh Tehrani M, Amini M, Khalaj A, Jokar S, Bavi O, Bijanzadeh HR, Foroumadi A.Synthesis, biological evaluation, and in silico study of novel coumarin-quinazoline analogs as potential Anti-Angiogenesis agents. Results in Chemistry, 2024;11; 101819 . (**ISI, 2.3)**

2. Izadi Z, Jalali H, ***Safavi M***. Protective activity of *Chlorella vulgaris* microalgae extract on the in vitro cultured oocytes. Iranian Journal of Fisheries Sciences, 2024; 23 (4): 589-602. (**ISI, ISC**)

3. Zaghari Z, Yaghmaei P, ***Safavi M*** & Seyed Ali Haeri Rohani. Investigating the efect of cerium oxide nanoparticle on beta-amyloid-induced memory loss. Chemical Papers, 2024. 78 (12) 7111-7123. (**ISI, 2.1)**

4. Izadi Z, Jalali H, ***Safavi M***. Protective activity of Chlorella vulgaris microalgae extract on the in vitro cultured oocytes. Iranian Journal of Fisheries Sciences, 2024; 23(4): 589-602. (**ISI, 0.8)**

5. Parnian J, Ma'mani L, Bakhtiari MR, ***Safavi M****. Inhibition of EGFR1 in Triple Negative Breast Cancer Cells Using siRNA Loaded with Fe3O4 Magnetic Nanoparticles. BioNanoScience, 2024; 1-13. DOIhttps://doi.org/10.1007/s12668-024-01454-5. (**ISI, 3)**

6. Masoudinia S, Samadizadeh M, ***Safavi M***, Bijanzadeh HR, Foroumadi A. Novel quinazolines bearing 1, 3, 4-thiadiazole-aryl urea derivative as anticancer agents: design, synthesis, molecular docking, DFT and bioactivity evaluations. BMC chemistry, 2024: 18 (1), 1-17. (**ISI, 4.6)**

7. Taheri-Ledari R, Zarei-Shokat S, Qazi FS, Ghafori-Gorab M, Ganjali F, Kashtiaray A, Mahdavi M, ***Safavi M***, Maleki A. A Mesoporous Magnetic Fe3O4/BioMOF-13 with a Core/Shell Nanostructure for Targeted Delivery of Doxorubicin to Breast Cancer Cells. ACS Applied Materials & Interfaces 2023; (**ISI, 10.38)**

8. Beheshti F, ***Safavi M***, Eidgahi MRA, Kokhaei P, Vazirian M, Shabani AA. Phytochemical Screening and In Vitro Antioxidant Activity of Extracts of Ipomoea purpurea Leaves from Iran. Biologia 2023; 69 (2), 32-39 (**ISI)**

9. Shokrollahzadeh S, Tayar S, Azizmohseni F, ***Safavi M***, Keypour S. Fungal decolorization of toxic Triphenylmethane dye by newly isolated Ganoderma fungi: Growth, enzyme activity, kinetics. *Bioresource Technology Reports* 2023;24, 101654 (**Scopus**)

10. Peytam F, Emamgholipour Z, Mousavi A, Moradi M, Foroumadi R, Firoozpour L, Divsalar F, ***Safavi M***, Foroumadi A. Imidazopyridine-based kinase inhibitors as potential anticancer agents: A review. *Bioorganic Chemistr,*. 2023; 140:106831 (**ISI, 5.1).**

11. Nezafatian E, Farhadian O, Yegdaneh A, ***Safavi M***, Daneshvar E, Bhatnagar A. Enhanced production of bioactive compounds from marine microalgae Tetraselmis tetrathele under salinity and light stresses: A two-stage cultivation strategy. *Bioresource Technology* 2023;376, 128899. (**ISI, 11.88).**

12. Mousavian Z, ***Safavi M***, Salehirad A, Azizmohseni F, Hadizadeh M, Mirdamadi S. Improving biomass and carbohydrate production of microalgae in the rotating cultivation system on natural carriers. *AMB Express*, 2023;13(1), 39 (**ISI, 4.12).**

13. Noori M, Sabourian R, Tasharoie A, ***Safavi M***, Iraji A, Khalili Ghomi M, Dastyafteh N, Cambyz Irajie, Zarenezhad E, Mostafavi Pour SM, Rasekh F, Larijani B, Amini M, Hajimahmoodi M, Mahdavi M. Thioquinoline derivatives conjugated to thiosemicarbazide as potent tyrosinase inhibitors with anti-melanogenesis properties. *Scientific Reports* 2023;13 (1), 2578. (**ISI, 4.99).**

14. Niazi S, Lashkari A, Aliniaye S, Ardestani SK, ***Safavi M***. Butylated hydroxyl-toluene, 2,4-Di-tert-butylphenol, and phytol of Chlorella sp. protect the PC12 cell line against H2O2-induced neurotoxicity. *Biomedicine & Pharmacotherapy*.2022; 145:112415 (**ISI, 7.5).**

15. Guo Z, Hou Y, Liu Z, Ma Y, Han T, Hao N, Yao Y, Lan C, Ge T, ***Safavi M***, Wang W, Zhao L, Chen F. Combination of bicarbonate and low temperature stress induces the biosynthesis of both arachidonic and docosahexaenoic acids in alkaliphilic microalgae Dunaliella salina HTBS. *Frontiers in Marine Science*. 2022; 2029 (**ISI, 4.77**).

16. Parnian J, Ma'mani L, Bakhtiari MR, ***Safavi M***. Overcoming the non-kinetic activity of EGFR1 using multi-functionalized mesoporous silica nanocarrier for in vitro delivery of siRNA. *Scientific Reports* 2022; 12 (1), 1-17 (**ISI, 4.99).**

17. Mirahmad M, Sabourian R, Mahdavi M, Larijani B, ***Safavi M***. In vitro cell-based models of drug-induced hepatotoxicity screening: progress and limitation. *Drug Metabolism Reviews*. 2022; 54 (2):161-193 (**ISI, 4.51).**

18. Shakeri R, Savari B, Sheikholeslami MN, Radjabian T, Khorshidi J, ***Safavi M***. Untargeted metabolomics analysis of crocus cancellatus subsp. damascenus (Herb.) B. mathew stigmas and their anticarcinogenic effect on breast cancer cells. *Evidence-Based Complementary and Alternative Medicine*, 2022; (Accepted) (**ISI, 2.62).**

19. Jamshidi H, Naimi-Jamal MR, ***Safavi M***, RayatSanati K, Azerang P, Tahghighi A. Synthesis and biological activity profile of novel triazole/quinoline hybrids. *Chemical Biology & Drug Design*. 2022; 00:1–12 (**ISI, 2.8).**

20. Mousavian Z, ***Safavi M***, Azizmohseni F, Hadizadeh M, Mirdamadi S. Characterization, antioxidant and anticoagulant properties of exopolysaccharide from marine microalgae. *AMB Express.* 2022;12 (27):1-16 (**ISI, 4.12).**

21. Hou Y, Liu C, Liu Z, Han T, Hao N, Guo Z, Wang W, Chen S, Zhao L, ***Safavi M***, Ji X, Chen F. A Novel Salt-bridge Electroflocculation Technology for Harvesting Microalgae. *Frontiers in Bioengineering and Biotechnology*. 2022; 10: 902524 (**ISI, 5.89).**

22. Niazi S, Behboudi H, Navasatli SA, Tavakoli S, ***Safavi M***. New insights into the inhibitory roles and mechanisms of D-amino acids in bacterial biofilms in medicine, industry, and agriculture. *Microbiological Research.* 2022; 263:127107 (**ISI, 5.07).**

23. Mohammadian R, Ardestani SK, ***Safavi M***. Evaluation of anticancer and epidermal growth factor receptor inhibition activity by benzochromeno pyrimidin derivatives in three human cancer cell lines. *Medicinal Chemistry*. 2022;18(6):710-723 (**ISI, 2.74).**

24. Rastegari A, ***Safavi M***, Vafadarnejad F, Najafi Z, Hariri R, Bukhari SN, Iraji A, Edraki N, Firuzi O, Saeedi M, Mahdavi M, Akbarzadeh T. Synthesis and evaluation of novel arylisoxazoles linked to tacrine moiety: in vitro and in vivo biological activities against Alzheimer's disease. *Molecular Diversity*, 2022; 26(1):409-428 **(ISI, 3.36).**

25. Javadi MH, Iraji A, ***Safavi M***, Montazeri H, Tarighi P, Eftekhari S, Navidpour L, Mirfazli SS. Design, synthesis and apoptosis inducing activity of nonsteroidal flavone-methanesulfonate derivatives on MCF-7 cell line as potential sulfatase inhibitor. *Medicinal Chemistry Research*, 2021; 30(9):1-11. **(ISI, 2.35).**

26. Mirdamadi S, Mirzaei M, Soleymanzadeh N, ***Safavi M***, Bakhtiari N, Zandi M. Antioxidant and cytoprotective effects of synthetic peptides identified from Kluyveromyces marxianus protein hydrolysate: insight into the molecular mechanism. *LWT - Food Science and Technology*. 2021;148:111792. **(ISI, 4.006).**

27. ***Safavi M***, Olia MSJ, Abolhasani MH, Amini M, Kianirad M. Optimization of the culture medium and characterization of antioxidant compounds of a marine isolated microalga as a promising source in aquaculture feed. *Biocatalysis and Agricultural Biotechnology*. 2021;35:102098. **(ISI).**

28. Beheshti F, Shabani AA, Akbari Eidgahi MR, Kookhaei P, Vazirian M, ***Safavi M***. Anticancer activity of ipomoea purpurea leaves extracts in monolayer and three-dimensional cell culture. *Evidence-Based Complementary and Alternative Medicin*, 2021 **(ISI, 2.6)**

29. Mirzaie S, Tabarsa M, ***Safavi M***. Effects of extracted polysaccharides from a Chlorella vulgaris biomass on expression of interferon-γ and interleukin-2 in chicken peripheral blood mononuclear cells. *Journal of Applied Phycology,* 2021, 33(1):409-418. **(ISI, 3.01).**

30. Balaei-Kahnamoei M, Eftekhari M, Shams ArdekaniMR, Akbarzadeh T, Saeedi M, Jamalifar H, ***Safavi M***, Sam S, Zhalehjoo N, Khanavi M. Phytochemical constituents and biological activities of Salvia macrosiphon Boiss. *BMC Chem*, 2021;15(1):4**.(ISI)**

31. Saeedi M, ***Safavi M***, Allahabadi E, Rastegari A, Hariri R, Jafari S, Bukhari SNA, Mirfazli SS, Firuzi M, Edraki N, Akbarzadeh T. Thieno [2, 3-b] pyridine amines: Synthesis and evaluation of tacrine a nalogs against biological activities related to Alzheimer's disease. *Archiv der Pharmazie*, 2020;353(10): 2000101 **(ISI, 2.59).**

32. Sabourian R, Mirjalili SZ, Namini N, Chavoshy F, Hajimahmoudi M, ***Safavi M***. HPLC methods for quantifying of anticancer drugs in human samples: A systematic review. *Analytical Biochemistry*, 2020;610: 113891 **(ISI, 2.87)**.

33. Mirzae M, Mirdamadi S, ***Safavi M***, Soleymanzadeh N. The stability of antioxidant and ACE-inhibitory peptides as influenced by peptide sequences. *LWT- Food Science and Technology*. 2020;130:109710. **(ISI, 4.00).**

34. Fallah A, Mohanazadeh F, ***Safavi M***. Design, synthesis, and in vitro evaluation of novel 1,3,4-oxadiazolecarbamothioate derivatives of Rivastigmine as selective inhibitors of BuChE. *Med Chem Res* 2020;29:341–355 **(ISI, 1.72).**

35. Ayati A, Moghimi S, Salarinejad S, ***Safavi M***, Pouramiri B, Foroumadi A. Review on progression of epidermal growth factor receptor (EGFR) inhibitors as an efficient approach in cancer targeted therapy. *Bioorg Che*m. 2020 ;99:103811**(ISI, 4.8).**

36. Baniamerian H, Tsapekos P, Alvarado-Morales M, Shokrollahzadeh S, ***Safavi M***, Angelidaki I. Effect of surfactants on photocatalytic toxicity of TiO2-based nanoparticles toward Vibrio fischeri marine bacteria. *Inorganic Chemistry Communications*, 2020;116: 107936 **(ISI, 1.94).**

37. Baniamerian H, Tsapekos P, Alvarado-Morales M, Shokrollahzadeh S, ***Safavi M***, Angelidaki I. Anti-algal activity of Fe2O3-TiO2 photocatalyst on *Chlorella vulgaris* species under visible light irradiation. *Chemosphere*. 2020 ;242:125119 **(ISI, 5.77).**

38. Mirzaei M, Mirdamadi S, ***Safavi M***. Structural analysis of ACE-inhibitory peptide (VL-9) derived from Kluyveromyces marxianus protein hydrolysate. *Journal of Molecular Structure*. 2020;1213: 128199 **(ISI, 2.46).**

39. Mirzaei M, Mirdamadi S**, *Safavi M***, Hadizadeh M. *In vitro* and in silico studies of novel synthetic ACE-inhibitory peptides derived from Saccharomyces cerevisiae protein hydrolysate. *Bioorg Chem*. 2019;87:647-654. **(ISI, 3.92).**

40. Bakherad Z , ***Safavi M***, Sepehri S, Fassihi A, Sadeghi-aliabadi H, Bakherad M, Rastegar H, Larijani B, Saghaie L, Mahdavi M. Preparation of some novel imidazopyridine derivatives of indole as anticancer agents: one-pot multicomponent synthesis, biological evaluation and docking studies. *Research on Chemical Intermediates*. 2019;45 (10): 5261–90 **(ISI, 1.67)**

41. Ghasemi H, Yaraee R, Faghihzadeh S, Ghassemi-Broumand M, Mahmoudi M, Babaei M, Naderi M, ***Safavi M***, Ghazanfari Z, Rastin M, Zamani S, Tabasi N, Faghihzadeh E, Gharebaghi R, Hassan ZM, Mirsharif ES, Ghazanfari T. Tear and serum MMP-9 and serum TIMPs levels in the severe sulfur mustard eye injured exposed patients. Int Immunopharmacol. 2019;77:105812. **(ISI, 3.94).**

42. ***Safavi M***, Nowruzi B, Estalaki S, Monsef Shokri M. Biological Activity of Methanol Extract from Nostoc sp. N42and Fischerella sp. S29 Isolated from Aquatic and TerrestrialEcosystems. *International Journal on Algae*, 2019; 21(4): 373–391

43. Mirzaei M, Mirdamadi S, ***Safavi M***. Antioxidant activity and protective effects of Saccharomyces cerevisiae peptide fractions against H2O2-induced oxidative stress in Caco-2 cells. *J Food Meas Charact.* 2019 **(ISI, 1.415).**

44. Eftekhari M, Shams Ardekani MR, Amin M, Attar F, Akbarzadeh T, ***Safavi M***, Karimpour-Razkenari E, Amini M, Isman M, Khanavi M. *Oliveria decumbens*, a Bioactive Essential Oil: Chemical Composition and Biological Activities. *Iran J Pharm Res*. 2019 ;18(1):412-421. **(ISI, 1.74).**

45. Mirzaei M, Mirdamadi S**, *Safavi M***, Zare D, Hadizadeh M, Asadi MM. Synthesis, in vitro and cellular antioxidant activity evaluation of novel peptides derived from Saccharomyces cerevisiae protein hydrolysate: structure-function relationship : Antioxidant activity and synthetic peptides. Amino Acids. 2019;51(8):1167-1175 **(ISI, 2.52).**

46. Shakeri R, Khorshidi J, Radjabian T, Lashkari A, ***Safavi M***. Cytotoxic and antioxidant activities of Crocus pallasii subsp. haussknechtii corms extracts compared with Crocus sativus. Res J Pharmacogn. 2019; 6 (3): 51-59 **(ISI).**

47. Ghasemi H, Javadi MA, Ardestani SK, Mahmoudi M, Pourfarzam S, Mahdavi MR, Yarmohammadi ME, Baradaran-Rafii A, Jadidi K, Shariatpanahi S, Rastin M, Heidary F, ***Safavi M***, Mirsharif ES, Nasiri Z, Ghazanfari T. Alteration in inflammatory mediators in seriously eye-injured war veterans, long-term after sulfur mustard exposure. Int Immunopharmacol. 2020;80:105897 **(ISI, 3.94).**

48. Abolhasani MH, ***Safavi M***, Goodarzi MT, Kassaee SM, Azin M. Statistical optimization of medium with response surface methodology for biomass production of a local Iranian microalgae Picochlorum sp. RCC486. *Advanced Research in Microbial Metabolites & Technology* 1 (2018) 39-49 **(ISC).**

49. Manshadi SM, ***Safavi M***, Rostami Sh, Nadali F, Ardekani MR. Apoptosis Induction of Armeniacae Semen Extractin Human Acute Leukemia (NALM-6 and KG-1) Cells. *International Journal of Hematology-Oncology and Stem Cell Research.* 2019; 13(3):116-121 (Scopus, Pubmed…).

50. Jamali T, Kavoosi G, ***Safavi M***, Ardestani SK. In-vitro evaluation of apoptotic effect of OEO and thymol in 2D and 3D cell cultures and the study of their interaction mode with DNA. *Sci Rep*. 2018; 8(1):15787. **(ISI, 4.12)**

51. Bakherad Z, ***Safavi M***, Fassihi A, Sadeghi-Aliabadi H, Bakherad M, Rastegar H, Saeedi M, Ghasemi JB, Saghaie L, Mahdavi M. Design and Synthesis of Novel Cytotoxic Indole-Thiosemicarbazone Derivatives: Biological Evaluation and Docking Study. *Chem Biodivers.* 2019;16:e1800470. **(ISI, 1.61)**

52. Saeedi M, Hashemi M, Mahdavi M, Rafinejad A, Najafi Z, Mirfazli S, Mohammadian R, Karimpour-Razkenari E, Ardestani SK, ***Safavi M***, Akbarzadeh T. Synthesis and Anticancer Activity of *N*-(di/trimethoxyaryl)-5-arylisoxazole-3-carboxamide, *Polycyclic Aromatic Compounds*. 2020;40(5):1568-1580 **(ISI, 2.00)**

53. Ghaffari M, Moztarzadeh F, ***Safavi M***. A comparative study on the shape-dependent biological activity of nanostructured zinc oxide. *Ceramics International.* 2019;45(1):1179-1188 **(ISI, 3.05)**

54. Bakherad Z, ***Safavi M***, Fassihi A, Sadeghi-Aliabadi H, Bakherad M, Rastegar H, Ghasemi J, Sepehri S, Saghaie L, Mahdavi M. Anti-cancer, anti-oxidant and molecular docking studies of thiosemicarbazone indole-based derivatives. *Research on Chemical Intermediates*. 2019;45: 827–2854 **(ISI, 1.67)**

55. Tashrifi Z, Mohammadi-khanaposhtani M, Shafiee Ardestani M, ***Safavi M***, Rad-Mighadam K, Mehrdad M, Larijani B, Mahdavi M. Design, synthesis and in vitro cytotoxicity of new 1,2,3-triazol- and nitrostyrene hybrids as potent anticancer agents. *Letters in Drug Design & Discovery*. 2019; 16(2):213-219 **(ISI, 0.92)**

56. Baniamerian H, ***Safavi M***, Alvarado-Morales M, Tsapekos P, Angelidaki I, Shokrollahzadeh S. Photocatalytic inactivation of Vibrio fischeri using Fe2O3-TiO2-based nanoparticles. *Environmental Research*. 2018;166:497–506. **(ISI, 5.026).**

57. Saeedi M, Mohammadi-Khanaposhtani M, Pourrabia P, Razzaghi N, Ghadimi R, Imanparast S, Faramarzi MA, Bandarian F, Esfahani E, ***Safavi M***, Rastegar H, Larijani B, Mahdavi M, Akbarzadeh T. Design and synthesis of novel quinazolinone-1,2,3-triazole hybrids as new anti-diabetic agents: in vitro α-glucosidase inhibition, kinetic, and docking study. *Bioorganic Chemistry*. 2018; 83:161-169 **(ISI, 3.9)**

58. Mohammadi-Khanaposhtani M, Rezaei S, Khalifeh R, Imanparast S, Faramarzi MA, Bahadorikhalili S, ***Safavi M***, Bandarian F, Nasli Esfahani E, Mahdavi M, Larijani B. Design, synthesis, docking study, α-glucosidase inhibition, and cytotoxic activities of acridine linked to thioacetamides as novel agents in treatment of type 2 diabetes. Bioorg Chem. 2018;80:288-295 **(ISI, 3.9)**

59. Mohammadi-Khanaposhtani M, Fahimi K, Karimpour-Razkenari E, ***Safavi M***, Mahdavi M, Saeedi M, Akbarzadeh T. Design, Synthesis, and Cytotoxicity of Novel Coumarin-1,2,3-triazole-1,2,4- Oxadiazole Hybrids as Potent Anti-breast Cancer Agents. Letters in Drug Design & Discovery. 2019;16(7):818-824 **(ISI, 0.92)**

60. Abolhasani MH, ***Safavi M***, Goodarzi MT, Kassaee SM, Azin M. Identification and anti-cancer activity in 2D and 3D cell culture evaluation of an Iranian isolated marine microalgae Picochlorum sp. RCC486. DARU Journal of Pharmaceutical Sciences. 2018; 26;105-116. **(ISI, 2.48).**

61. Khalili F, Akrami S, ***Safavi M***, Mohammadi-Khanaposhtanid M, Saeedi M, Ardestani SK, Larijani B, Zonouzi A, Tehrani MB, Mahdavi M. Design, synthesis, in vitro cytotoxic activity evaluation, and study of apoptosis inducing effect of new

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