بسمه تعالی

رزومه علمی

اطلاعات شخصی:

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آدرس تماس:

آدرس: پژوهشکده بیوتکنولوژی، سازمان پژوهشهای علمی و صنعتی ایران ((IROST، جاده احمدآباد مستوفی، اتوبان آزادگان، تهران، ایران / کد پستی: ۳۳۵۳۱۳۶۸۴۶

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پست های مدیریتی فعلی و قبلی:

۱. مدیر پژوهشکده بیوتکنولوژی، سازمان پژوهشهای علمی و صنعتی ایران (از ۲۰۲۲ تاکنون).

۲. معاون گروه بیوتکنولوژی، سازمان پژوهشهای علمی و صنعتی ایران (۲۰۱۸-۲۰۲۲).

۳. دانشیار گروه بیوتکنولوژی، سازمان پژوهشهای علمی و صنعتی ایران، تهران، ایران (از ۲۰۱۹ تاکنون).

۴. مدیر آزمایشگاه مرجع سازمان پژوهشهای علمی و صنعتی ایران (۲۰۱۷-۲۰۱۸).

۵. استادیار گروه بیوتکنولوژی، سازمان پژوهشهای علمی و صنعتی ایران، تهران، ایران (۲۰۱۳-۲۰۱۹).

۶. پژوهشگر در دانشکده داروسازی و مرکز تحقیقات علوم دارویی، دانشگاه علوم پزشکی تهران (۲۰۰۶-۲۰۰۸).

تحصیلات:

۱. پژوهشگر پسادکتری، دانشکده فارماکولوژی، دانشگاه علوم پزشکی تهران، تهران، ایران (مارس ۲۰۱۳ - نوامبر ۲۰۱۳).

۲. دکتری بیوشیمی، مؤسسه بیوشیمی و بیوفیزیک، دانشگاه تهران، تهران، ایران (اکتبر ۲۰۰۸ - مارس ۲۰۱۳).

۳. کارشناسی ارشد بیوشیمی بالینی، دانشگاه علوم پزشکی تبریز، دانشکده پزشکی (۲۰۰۱-۲۰۰۳).

دروس تدریس شده:

- فرآوری مواد در میکروارگانیسم‌ها (دانشجویان دکتری)

مباحث نوین در بیوتکنولوژی (دانشجویان دکتری)

-مباحث نوین در زیست‌شناسی سلولی و مولکولی (دانشجویان دکتری)

- فرآیندهای سلولی و مولکولی در یوکاریوت‌ها (دانشجویان دکتری)

- مهندسی متابولیک (دانشجویان دکتری)

- زیست‌شناسی سلولی و مولکولی سرطان (دانشجویان دکتری)

- شیمی دارویی (دانشجویان کارشناسی ارشد و دکتری)

- بیوشیمی غشا (دانشجویان دکتری)

- روش‌شناسی پیشرفته تحقیق (دانشجویان دکتری)

- ساختار و عملکرد ماکرومولکول‌ها (دانشجویان کارشناسی ارشد)

- کشت بافت و سلول (دانشجویان کارشناسی)

- بیوتکنولوژی حیوانی (دانشجویان کارشناسی)

- بیوشیمی عمومی (دانشجویان کارشناسی)

- بیوشیمی هورمون‌ها (دانشجویان کارشناسی)

- بیوشیمی کربوهیدرات‌ها و لیپیدها (دانشجویان کارشناسی)

تجربیات پژوهشی:

شرکت در ۶۵ پروژه به عنوان همکار پژوهشی از سال ۲۰۰۸

پژوهشگر اصلی در ۱۵پروژه:

برخی پروژه‌های جاری (پژوهشگر اصلی):

۱. استخراج و بررسی اثرات فوتوپروتکتیو و سیتوپروتکتیو فیتواسترول‌ها از پوست و مغز پسته سبز (پروژه مشترک بین IROST و مرکز تحقیقات پسته دانشگاه دامغان).

۲. ارزیابی خطر و سمیت نانومواد مورد استفاده در پزشکی (TWAS-UNESCO)

۳. مدیر اجرایی در یک پروژه کارشناسی ارشد شامل چهار زیرپروژه: استخراج، خالص‌سازی و شناسایی هپارین از مخاط روده گاو (از مرحله آزمایشگاهی تا نیمه صنعتی).

پروژه‌های خاتمه‌یافته (پژوهشگر اصلی):

۱. طراحی و سنتز حامل نانوسیلیکای مزوپور برای تحویل siRNA علیه EGFR1 در یک خط سلولی سرطان پستان انسان (بنیاد خیریه کنترل سرطان ملی).

۲. ارزیابی خواص ضدسرطانی و فعالیت مهارکننده تیروزین کیناز از هتروسیکل‌های آروماتیک پلی‌سیکلیک (گرنت از شرکت دارویی).

۳. فعالیت‌های ضدسرطانی و آنتی‌اکسیدانی ریزجلبک‌های سبز جدا شده از قشم و خلیج فارس بر روی خطوط سلولی سرطان پستان (مرکز مطالعات و همکاری‌های علمی بین‌المللی و مؤسسه ملی توسعه تحقیقات پزشکی).

۴. ارزیابی فعالیت‌های ضدسرطانی و آنتی‌اکسیدانی ریزجلبک‌های دریایی ایران (گرنت تحقیقاتی .(TWAS-UNESCO

۵. فعالیت ضدسرطانی و آنتی‌اکسیدانی * in vitro* اسانس و عصاره برگ‌های Ipomoea علیه خطوط سلولی سرطان انسان و مکانیسم مولکولی آن‌ها (پروژه مشترک بین IROST و دانشگاه سمنان).

۶. سنتز و ارزیابی فعالیت ضدسرطانی * in vitro* مشتقات کوینازولین (مرکز تحقیقات علوم دارویی؛ .(PSRC

۷. فعالیت ضدسرطانی و القاء آپوپتوز * in vitro* برخی ترکیبات سنتزی بر روی چندین خط سلولی سرطان انسان (دانشگاه علوم پزشکی تهران).

۸. طراحی، سنتز و ارزیابی فعالیت ضدسرطانی بنزو\[۷,۸]کرومنو\[۲,۳-\]dپیریمیدین به عنوان مهارکننده‌های تیروزین کیناز (بنیاد ملی علوم ایران؛ .(INSF

۹. ارزیابی کمپلکس‌های سمی‌کاربازون‌های ۲-هیدروکسی استوفنون به عنوان یک سری جدید از مقلدهای سوپراکسید دیسموتاز (مرکز تحقیقات علوم دارویی؛ .(PSRC

تخصص‌های حرفه‌ای:

۱. عنوان پایان‌نامه دکتری: ارزیابی فعالیت سیتوتوکسیک سینرژیستی مشتقات فلاوانون با آگونیست گیرنده Toll-like 3 بر روی سه خط سلولی سرطان.

۲. عنوان پایان‌نامه کارشناسی ارشد: رابطه بین میکروآلبومینوری و گسترش ضایعات آترواسکلروتیک عروق کرونر.

۳. ارزیابی نانومواد مهندسی‌شده.

۴. مطالعه روی ریزجلبک‌ها و منابع طبیعی برای ترکیبات زیست‌فعال.

۵. ارزیابی فعالیت ضدسرطانی و مکانیسم مرگ سلولی ترکیبات سنتزی و طبیعی (آزمون MTT، فلوسیتومتری، میکروسکوپ فلورسانس، آنزیم‌اسی، وسترن بلات، میکروسکوپ کانفوکال و ...).

۶. سنتز نانوذرات برای تحویل ژن.

۷. تجربه در سیتوژنتیک به مدت دو سال (شامل: کاریوتایپ و تحلیل کروموزوم با روش .(G-banding

جوایز و افتخارات:

۱-قرار گرفتن در لیست ۲٪ پژوهشگران پراستناد دنیا

۲-پژوهشگر برتر در (۲۰۱۵، ۲۰۲۲ و ۲۰۲۳).

۳. دکتری از دانشگاه تهران با نمره پایان‌نامه: ۲۰/۲۰ (۲۰۱۳-دکتری).

۴. رتبه اول در رتبه‌بندی دانشگاه تبریز (۲۰۰۴ - کارشناسی ارشد).

۵. رتبه اول در رتبه‌بندی دانشگاه گیلان (۲۰۰۱ - کارشناسی).

انتشارات:

کتاب‌های بین‌المللی:

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.

مقالات بین المللی:

1. Taheri-Ledari R, Ghafori-Gorab M, Ramezanpour S, Mahdavi M, Safavi M, Akbarzadeh AR, Maleki A. MIL-101 magnetic nanocarrier for solid-phase delivery of doxorubicin to breast and lung cancer cells. International Journal of Biological Macromolecules, 2024; 283:137615 (**ISI, 7.7)**

2. Hashemi E, Rezaei A, Piravivanak Z, Mirani Nezhad S, Rashidi Nodeh H, ***Safavi M***. Extraction of phytosterols from the green hull of pistacia vera l. var damghan and optimization of extraction methods. Journal of Medicinal plants and By-Products, 2024; (**ISI, 0.5)**

3. Saboorizadeh B, Zare-Dorabei R, Safavi M, Safarifard V. Applications of Metal–Organic Frameworks (MOFs) in Drug Delivery, Biosensing, and Therapy: A Comprehensive Review. Langmuir, 2024;4:22477−22503 (**ISI, 3.7)**

4. Baniamerian H, Shokrollahzadeh S, Safavi M, Ashori A, Angelidaki I. Visible-light-activated Fe2O3–TiO2 nanoparticles enhance biofouling resistance of polyethersulfone ultrafiltration membranes against marine algae Chlorella vulgaris. Scientific Reports, 2024;14(1): 24831 (**ISI, 3.8)**.

5. 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)**

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

7. 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)**

8. 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; 14: 2302–2314. (**ISI, 3)**

9. 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)**

10. 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)**

11. 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)**

12. 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**)

13. 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).**

14. 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).**

15. 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).**

16. 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).**

17. 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).**

18. 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**).

19. 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).**

20. 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).**

21. 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).**

22. 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).**

23. 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).**

24. 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).**

25. 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).**

26. 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).**

27. 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).**

28. 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).**

29. 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).**

30. ***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).**

31. 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)**

32. 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).**

33. 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)**

34. 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).**

35. 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)**.

36. 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).**

37. 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).**

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