

Curriculum Vitae

Dr. Ardalan Pasdaran

Personal Details

Name Ardalan Pasdaran
Gender male
Nationality Iranian
Date of Birth 26thFeb, 1983
Place of Birth Tehran, Iran
Occupation PhD of Pharmacognosy, Doctor of Pharmacy

Current Position:

Shiraz University of Medical Sciences

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Education

Period 1996-1999
Ferdosi High School, Tehran.
Diploma Degree

Period 2000-2006
Tabriz University of Medical Sciences
Pharm.D
Title of Pharm.D thesis:
Synthesis and Antibacterial Activity of Silver Nanoparticles Embedded in Smart Poly (N-Isopropylacrylamide)-Based Hydrogel Networks

Period 2006-2012
Tabriz University of Medical Sciences
PhD of Pharmacognosy
Title of PhD thesis:
Phytochemical study on the aerial parts of *Scrophularia amplexicaulis* Benth, *Scrophularia oxysepala* Boiss. and assessment of antioxidant, insecticidal, general toxicity and antimalarial activities.

Book chapters

1) **Pasdaran A**, Pasdaran A, Shikhi D, (2016). Volatile oils: potential agents for the treatment of respiratory infections, the Microbiology of Respiratory System Infections (ISBN: 978-0-12-804543-5). Elsevier, Academic Press, Chapter 16, pp. 237-261.

2) **Pasdaran A**, Hamed A. Natural compounds in treatment of skin and soft tissue infections. The Microbiology of Skin and Soft Tissue Infections. Elsevier, Academic Press, Chapter 14, pp. 223-253.

Honors

- Guest editor of Concepts in Magnetic Resonance Part A journal for special issue on “Magnetic resonance techniques as key components in the structural elucidation and profiling of natural products”. Wiley publisher (October 2021-February 2022).

- Pharmacognosy reviews editorial board from 2016 (SNIP: 2.862; Q1)

- Technical committee member of International Research Conference On Pharmaceutical and Allied Sciences (IRCPAS 2020) Kuala Lumpur, Malaysia (March 7 - 8, 2020).

- Keynote speaker of The International Congress on Biological and Medical Sciences, Niğde, Turkey (October 31- November 3, 2018).

- Science committee member of International Symposium on Limnology and Freshwater fisheries research symposium, Egirdir Fisheries Research Institute, Turkey (2017).

- Shiraz University of Medical Sciences appreciated lecturer (selected book chapter-2016).

- Shiraz University of Medical Sciences appreciated lecturer (education fields-2020).

- First winner of Tamin Pharmaceutical Investment Company (TPICO) innovation festival (2020).

- Member of traditional and natural products legal commission of Shiraz University of Medical Sciences food and drugs deputy (2018-2021).

- Member of Fars province medicinal plants headquarter (2017-2018).

- Kara Daru scientific company chief executive officer (from 2019).

- Head of the common research laboratories in Mohammad Rasoolallah research tower (2017-2018).

- Head of Pharmacognosy, Department of Pharmacognosy, Faculty of Pharmacy, Guilan University of Medical Sciences, Rasht, Iran (2013-2017).
- Head of Research and Development Center of Plants and Medicinal Chemistry, Guilan University of Medical Sciences, Rasht, Iran (2013-2017).
- Guilan, Ministry of Economy Affairs and Finance, Foreign Investment Service Center appreciated lecturer (2014).

Publications

1. Bozorgzadeh, E., **A. Pasdaran**, H. Ebrahimi-Najafabadi, *Determination of toxic heavy metals in fish samples using dispersive micro solid phase extraction combined with inductively coupled plasma optical emission spectroscopy*. Food Chemistry. 2021; **346**:128916.
2. Hamidi, M., A.R. Gholipour, C. Delattre, F. Sedighi, R.M. Seveiri, **A. Pasdaran**, S. Kheirandish, G. Pierre, and P.S. Kozani, *Production, characterization and biological activities of exopolysaccharides from a new cold-adapted yeast: Rhodotorula mucilaginosa sp. GUMS16*. International Journal of Biological Macromolecules, 2020. **151**: p. 268-277.
3. Hamed, A., **A. Pasdaran**, and A. Pasdaran, *a trisaccharide phenylethanoid glycoside from Scrophularia flava Graub with potential anti-type 2 diabetic properties by inhibiting α -glucosidase enzyme and decreasing oxidative stress*. Bioorganic Chemistry, 2020. **99**: p. 103776-.
4. Sakhteman, A., **A. Pasdaran**, M. Afifi, and A. Hamed, *An Assay on the Possible Effect of Essential Oil Constituents on Receptors Involved in Women's Hormonal Health and Reproductive System Diseases*. Journal of Evidence-Based Integrative Medicine, 2020. **25**: p. 2515690X20932527.
5. Selamoglu, Z., M. Sevindik, C. Bal, B. Ozaltun, İ. Sen, and **A. Pasdaran**, *Antioxidant, antimicrobial and DNA protection activities of phenolic content of Tricholoma virgatum (Fr.) P.Kumm*. Biointerface Research in Applied Chemistry, 2020. **10**(3): p. 5500-5506.
6. Hamed, A., G. Zengin, A. Aktumsek, Z. Selamoglu, and **A. Pasdaran**, *in vitro and in silico approach to determine neuroprotective properties of iridoid glycosides from aerial parts of Scrophularia amplexicaulis by investigating their cholinesterase inhibition and anti-oxidant activities*. Biointerface Research in Applied Chemistry, 2020. **10**(3): p. 5429-5454.
7. Rafieian-kopaei, M., A. Hamed, E. Soleiman Dehkordi, **A. Pasdaran**, and A. Pasdaran, *Phytochemical investigation on volatile compositions and methoxylated flavonoids of Agrostis gigantea Roth*. Iranian Journal of Pharmaceutical Research, 2020. **19** (4): p. 360-370.
8. **Pasdaran**, A., S.D. Sarker, L. Nahar, and A. Hamed, *Chemical Composition, Antibacterial, Insecticidal and Anti-Oxidant Activities of Three Acantholimon Species (A. atropatanum, A. gilliatii and A. tragacanthium)*. The Natural Products Journal, 2020. **10**(3): p. 272-278.
9. Hamed, A., R. Heidari, A. Raeisi, and **A. Pasdaran**, *Investigation of chemical composition of oriental plane (Platanus orientalis L.) hydrosol and the effect of its short term administration on tissue damage markers and plasma enzymes in mice*. Trends in Pharmaceutical Sciences. 2020;**6** (4): p. 243-254.

10. Ebrahimi-Najafabadi, H., A. Pasdaran, R.R. Bezenjani, and E. Bozorgzadeh, *Determination of toxic heavy metals in rice samples using ultrasound assisted emulsification microextraction combined with inductively coupled plasma optical emission spectroscopy*. Food Chemistry, 2019. **289**: p. 26-32.
11. Moghaddam, M.S.H., N. Safaie, J. Soltani, and **A. Pasdaran**, *Endophytic association of bioactive and halotolerant *Humicola fuscoatra* with halophytic plants, and its capability of producing anthraquinone and anthranol derivatives*. Antonie van Leeuwenhoek, 2019: p. 1-13.
12. Ebrahimi- Najafabadi, H., S.S. Kazemeini, **A. Pasdaran**, and A. Hamed, *a novel similarity search approach for high- performance thin- layer chromatography (HPTLC) fingerprinting of medicinal plants*. Phytochemical Analysis, 2019. **30** (4): p. 405-414.
13. Dehghani, S.M., M.S. Bahroolomifard, G. Yousefi, **A. Pasdaran**, and A. Hamed, *a randomized controlled double blinded trial to evaluate efficacy of oral administration of black strap molasses (sugarcane extract) in comparison with polyethylene glycol on pediatric functional constipation*. Journal of Ethnopharmacology, 2019. **28**: p. 111845.
14. Hamed, A., M.M. Zarshenas, A. Jamshidzadeh, S. Ahmadi, R. Heidari, and **A. Pasdaran**, *Citrus aurantium (bitter orange) seeds oil: pharmacognostic, anti-inflammatory and anti-nociceptive properties*. Trends in Pharmaceutical Sciences, 2019. **5**(3): p. 153-160.
15. **Pasdaran, A.**, S.D. Sarker, L. Nahar, and A. Hamed, *Chemical composition, antibacterial, insecticidal and antioxidant activities of tree *Acantholimon* species (*A. atropatanum*, *A. gilliatii* and *A. tragacanthium*)*. The Natural Products Journal, 2019. **10**(3): p. 272 – 278.
16. Mohamadipour, S., A. Hatamzadeh, D. Bakhshi, and **A. Pasdaran**, *Antimicrobial activities of *Caucalis platycarpos* 'L. and *Eryngium caucasicum* Trautv. essential oils*. Australian Journal of Crop Science, 2018. **12**(8): p. 1357.
17. Mamedov, N.A., **A. Pasdaran**, and N.Z.M. Mamadalieva, *Pharmacological studies of Syrian rue (*Peganum harmala* L., *Zygophyllaceae*)*. International Journal of Secondary Metabolite, 2018. **5**(1): p. 1-6.
18. Khomarlou, N., P. Aberoomand-Azar, A. Pasdaran, H. Tebyanian, A. Hakakian, R. Ranjbar, and S.A. Ayatollahi, *Essential oil composition and in vitro antibacterial activity of *Chenopodium album* subsp. *striatum**. Acta Biologica Hungarica, 2018. **69**(2): p. 144-155.
19. Jamshidzadeh, A., **A. Pasdaran**, R. Heidari, and A. Hamed, *Pharmacognostic and anti-inflammatory properties of *Securigera securidaca* seeds and seed oil*. Research Journal of Pharmacognosy, 2018. **5**(3): p. 31-39.
20. Hamed, A., M. Sohrabpour, M.M. Zarshenas, and **A. Pasdaran**, *Phytochemical investigation and quantitative analysis of the fatty acids and sterol compounds of seven pharmaceutical valuable seeds*. Current Pharmaceutical Analysis, 2018. **14**(5): p. 475-482.
21. Ebrahimi Hosein Abadi, S., E. Paryad, A. Ghanbari Khanghah, **A. Pasdaran**, E. Kazem Nezhad Leyli, and A.M. Sadeghi Meibodi, *Effects of Aromatherapy Using Lavender Oil on Hemodynamic Indices After Coronary Artery Bypass Graft Surgery*. Journal of Holistic Nursing and Midwifery, 2018. **28**(3): p. 163-170.
22. Shafipour, S.Z., N. Mosayebi, F. Asgari, Z. Atrkarroushan, and **A. Pasdaran**, *Effect of External Use of Sesame Oil in the Prevention of Chemotherapy-Induced Phlebitis in Children with Acute Lymphoblastic Leukemia (ALL)*. Iranian Journal of Pediatric Hematology and Oncology, 2017. **7**(4): p. 198-206.

23. Saeidinia, A., F. Keihanian, A.P. Lashkari, H.G. Lahiji, M. Mobayyen, A. Heidarzade, and J. Golchai, *Partial-thickness burn wounds healing by topical treatment: A randomized controlled comparison between silver sulfadiazine and centiderm*. *Medicine*, 2017. **96**(9).
24. Pasdaran, A., **A. Pasdaran**, and N. Mamedov, *Antibacterial and Antioxidant Activities of the Volatile Composition of the Flower and Fruit of Solanum sisymbriifolium (Litchi Tomato)*. *Pharmaceutical Sciences*, 2017. **23**(1): p. 66.
25. **Pasdaran, A.** and A. Hamed, *The genus Scrophularia: a source of iridoids and terpenoids with a diverse biological activity*. *Pharmaceutical Biology*, 2017. **55**(1): p. 2211-2233.
26. **Pasdaran, A.** and A. Hamed, *Natural Products as Source of New Antimicrobial Compounds for Skin Infections*, in *Clinical Microbiology Diagnosis, Treatment and Prophylaxis of Infections The microbiology of skin, soft tissue, bone and joint infections*. 2017, Academic Press is an imprint of Elsevier. p. 223-253.
27. Pasdaran, A., A. Delazar, S.A. Ayatollahi, and **A. Pasdaran**, *Chemical composition and biological activities of methanolic extract of Scrophularia oxysepala Boiss*. *Iranian Journal of Pharmaceutical Research*, 2017. **16**(1): p. 338.
28. Mamedov, N.A., **A. Pasdaran**, and N.Z. Mamadaliyeva, *Pharmacological studies of Syrian rue (Peganum harmala L., Zygophyllaceae)*. *International Journal of Secondary Metabolite* 2017. **5**(1).
29. Khomarlou, N., P. Aberoomand-Azar, A. Pasdaran, A. Hakakian, R. Ranjbar, and S. Ayatollahi, *Evaluation of antibacterial activity against multidrug-resistance (MDR) bacteria and antioxidant effects of the ethanolic extract and fractions of Chenopodium album (sub sp Striatum)*. *International Journal of Pharmaceutical Sciences and Research*, 2017. **8**: p. 3696-3708.
30. Hamed, A., A. Pasdaran, Z. Zebarjad, and M. Moein, *A Survey on Chemical Constituents and Indications of Aromatic Waters Soft Drinks (Hydrosols) Used in Persian Nutrition Culture and Folk Medicine for Neurological Disorders and Mental Health*. *Journal of Evidence-Based Complementary & Alternative Medicine*, 2017. **22**(4): p. 744-752.
31. Gazor, R., M. Asgari, A. Pasdaran, F. Mohammadghasemi, E. Nasiri, and Z.A. Roushan, *Evaluation of hepatoprotective effect of Acantholimon gilliati aerial part methanolic extract*. *Iranian Journal of Pharmaceutical Research*, 2017. **16**(Suppl): p. 135.
32. Shaheen, F., M.A. Ziaee, S.A. Ali, S.U. Simjee, A. Aqeel, and M.I. Choudhary, *The First Solid-phase Synthesis and Structural Studies on Phakellistatin 15*. *Records of Natural Products*, 2016. **10**(4): p. 397.
33. Rouhollah Gazor, A.P., Shabnam Almasi, *Effect of Brown Algae Cystoseira trinodis Methanolic Extract on Renal Tissue*. *Pharmaceutical Sciences*, 2016. **22**: p. 49-53.
34. Pasdaran, A., A. Hamed, and N.A. Mamedov, *Antibacterial and insecticidal activity of volatile compounds of three algae species of Oman Sea*. *International Journal of Secondary Metabolite*, 2016. **3**(2): p. 66-73.
35. Pasdaran, A., A. Delazar, S.A. Ayatollahi, L. Nahar, and S.D. Sarker, *Phytochemical and Bioactivity Evaluation of Scrophularia amplexicaulis Benth*. *Records of Natural Products*, 2016. **10**(4): p. 519-525.
36. Orangi, M., A. Pasdaran, D. Shanehbandi, T. Kazemi, B. Yousefi, B.-A. Hosseini, and B. Baradaran, *Cytotoxic and apoptotic activities of methanolic subfractions of Scrophularia oxysepala against human breast cancer cell line*. *Evidence-Based Complementary and Alternative Medicine*, 2016. **2016**.

37. Pasdaran, A., A. Delazar, F.H. Afshar, and D. Parsa, *Contact Toxicity and Chemical Composition of Essential Oil of Acantholimon scorpius*. Pharmaceutical Sciences, 2016. **22**(2): p. 138.
38. Ebrahim Nasiri, S.N., Ardalan Pasdaran, Rohullah Gazor, Fatemeh Mohammadghasemi, Zahra Atrkar Roushan, *Hepatoprotective effect of Acantholimon bracteatum (Girard) Boiss. on formaldehyde-induced liver injury in adult male mice*. Research Journal of Pharmacognosy, 2016. **3**(3): p. 55-61.
39. Pasdaran, A. and A. Pasdaran, *Volatile oils: Potential agents for the treatment of respiratory infections*, in *The Microbiology of Respiratory System Infections (ISBN: 978-0-12-804543-5)*. 2016, Academic Press. p. 237-261.
40. Hosseini, B.-A., A. Pasdaran, T. Kazemi, D. Shanehbandi, H. Karami, M. Orangi, and B. Baradaran, *Dichloromethane fractions of Scrophularia oxysepala extract induce apoptosis in MCF-7 human breast cancer cells*. Bosnian Journal of Basic Medical Sciences, 2015. **15**(1): p. 26.
41. Pasdaran, A., L. Nahar, S. Asnaashari, S.D. Sarker, and A. Delazar, *GC-MS analysis, free-radical-scavenging and insecticidal activities of essential oil of Scrophularia oxysepala boiss*. Pharmaceutical Sciences, 2013. **19**(1): p. 1.
42. Orangi, M., B. Baradaran, A. Pasdaran, T. Kazemi, B. Hosseini, and L. Mohammadnejad. *Cytotoxic effect of methanolic fractions of Scrophularia oxysepala on MCF-7 human breast cancer cell line*. in *Front Immunol Conference Abstract: 15th International Congress of Immunology (ICI)*. doi: 103389/confimmu. 2013.
43. Valiyari, S., B. Baradaran, A. Delazar, A. Pasdaran, and F. Zare, *Dichloromethane and methanol extracts of Scrophularia oxysepala induces apoptosis in MCF-7 human breast cancer cells*. Advanced Pharmaceutical Bulletin, 2012. **2**(2): p. 223.
44. Pasdaran, A., A. Delazar, H. Nazemiyeh, L. Nahar, and S.D. Sarker, *Chemical Composition, and Antibacterial (Against Staphylococcus aureus) and Free-Radical-Scavenging Activities of the Essential Oil of Scrophularia amplexicaulis Benth*. Records of Natural Products, 2012. **6**(4).
45. Valipour, F., M. Esmhosseini, K. Nejati, H. Kianfar, A. Pasdaran, and S. Davaran, *Synthesis and antibacterial activity of silver nanoparticles embedded in smart poly (N-isopropylacrylamide)-based hydrogel networks*. Journal of Nanotechnology in Engineering and Medicine, 2011. **2**(4): p. 041001.
46. Afshar, F.H., A. Delazar, O. Janneh, H. Nazemiyeh, A. Pasdaran, L. Nahar, and S.D. Sarker, *Evaluation of antimalarial, free-radical-scavenging and insecticidal activities of Artemisia scoparia and A. Spicigera, Asteraceae*. Revista Brasileira de Farmacognosia, 2011. **21**(6): p. 986-990.
47. Asnaashari, S., A. Delazar, S.S. Alipour, L. Nahar, A.S. Williams, A. Pasdaran, M. Mojarab, F. Fatih-Azad, and S. Sarker, *Chemical composition, free-radical-scavenging and insecticidal activities of the aerial parts of Stachys byzantina*. Archive of Biological Sciences, 2010. **62**(3): p. 653-62.

International conferences

- 1) Mona Orangi, Behzad Baradaran, **Ardalan Pasdaran**, Tohid Kazemi, Behnaz- Alsadat Hosseini. Cytotoxic effect of methanolic fractions of *Scrophularia oxysepala* on MCF-7 human breast cancer cell

line. *Front. Immunol. Conference Abstract: 15th International Congress of Immunology*. August 22-27, 2013, Milan, Italy.

2) **Ardalan Pasdaran**. Minor Iridoid Glucosides from *Scrophularia oxysepala* and Antioxidant activities. *4th national congress on medicinal plants*, May 22-23, 2015, Tehran, Iran.

3) **Ardalan Pasdaran**. Toxicity and chemical compositions of essential oils isolated from three *Acantholimon* species to *Oryzaephilus mercator* (Coleoptera: Silvanidae) and *Tribolium castaneum* (Coleoptera: Tenerbrionidae). *4th national congress on medicinal plants*, May 22-23, 2015, Tehran, Iran.

4) Abbas Delazar, **Ardalan Pasdaran**, Hossein Nazemiyeh, Lutfun Nahar, Satyajit Dey Sarker. Phytochemical analysis and assessment of biological activities of *Scrophularia oxysepala* Boiss. Oral presentation, *BIOCOM12 conference in*, 9-12 September 2012, Cadiz, Spain.

5) Abbas Delazar, **Ardalan Pasdaran**, Denna Parssa. Toxicity and chemical compositions of essential oils isolated from *Acantholimon gillii*. *19th Iranian Pharmacy Students Seminar*, 14-17 October 2013, Shiraz, Iran.

6) **Ardalan Pasdaran**, Zeliha Selamoglu, Arsalan Pasdaran. Fatty Acids Composition of *Alburnus chalcoides* Gldenstdt "Caspian shemaya" or "Koli mahi" Meat. *1st International Symposium on Limnology and Freshwater Fisheries*, 4-6 October 2017, Egirdir, Isparta, Turkey.

7) **Ardalan Pasdaran**, Zeliha Selamoglu, Arsalan Pasdaran. Fish Species of Caspian and Ponto-Caspian Region as a Valuable Source of Unsaturated Fatty Acids. *1st International Symposium on Limnology and Freshwater Fisheries*, 4-6 October 2017, Egirdir, Isparta, Turkey.

8) **Ardalan Pasdaran**, Zeliha Selamoglu, Arsalan Pasdaran. Hepatoprotective potential of the *Acantholimon*. Genus. *1st International congress on medicinal and aromatic plants "natural and healthy life"*, 10-12 May 2017, Konya, Turkey.

10) **Ardalan Pasdaran**, Zeliha Selamoglu, Arsalan Pasdaran. Root of *Eryngium caucasicum* trautv a valuable source for sterols. *1st International congress on medicinal and aromatic plants "natural and healthy life"*, 10-12 May 2017, Konya, Turkey.

11) Masoud Hamidi, Amir Reza Gholipour, **Ardalan Pasdaran**, et al. Isolation and molecular identification of a cold-adapted yeast, *Rhodotorula mucilaginosa* sp. GUMS16 from Guilan, North of Iran. *18th International & Iranian congress of microbiology*. 29-31 August 2017, Tehran, Iran.

12) Negin Khomarlou, Parviz Aberoomand-azar, **Ardalan Pasdaran**, Ali Hakakian, Reza Ranjbar, S. a. Ayatollahi. Surveying on in vitro antibacterial activity of *Chenopodium album striatum*. *2nd International Congress on Biomedicine*. 24-27 December, 2018, Tehran, Iran.

13) Azadeh Hamedi, Arsalan Pasdaran, **Ardalan Pasdaran**, Iridoid glycosides from *Scrophularia oxysepala*. *International Research Conference on Pharmaceutical and Allied Sciences (IRCPAS 2020)*. March 7 - 8, 2020, Kuala Lumpur, Malaysia.

International Collaborations

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- School of Pharmacy & Biomolecular Sciences at Liverpool John Moores University, England (Prof. Satya Sarker & Prof. Lutfun Nahar)
 - Institute of Organic Chemistry, Heidelberg University, NMR facility (Dr. Jürgen Graf)
 - University of Massachusetts at Amherst, United States of America (Dr. Nazim Mamedov)
 - National Technical University of Athens. (Prof. Alexandros Georgakilas)
 - International Center for Chemical and Biological Sciences, University of Karachi, Pakistan (Prof. M. Iqbal Choudhary)

Memorandum of Understanding (MOU)

- Omer Halisdemir University, Nigde, Turkey. From 2017 for 6 years.
 - UCSI university, Kuala Lumpur, Malaysia. From 2019 for 5 years.
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International collaboration

- Global alliance for infection in surgery editorial team from 2014.
- International natural product sciences taskforce (INPST) member.

Teaching History

- ❖ Practical Phytochemistry (2008-2009)
- ❖ Nutrition and Nutraceutical compounds (2013-2015)
- ❖ Medicinal Plants (2014-2015)
- ❖ Phytotherapy (2017-2021)
- ❖ Pharmacognosy and Natural Product Chemistry (2012-2021)
- ❖ NMR, Mass, X-ray crystallography (2016-2021)

Expertise

- ❖ Experience in analysis of 1DNMR & 2DNMR and MS, X-ray crystallography techniques
- ❖ Experience in plants taxonomy.
- ❖ Experience in natural compounds processing techniques including extraction methods of plants and sample preparation techniques
- ❖ Experience in purification and structure elucidation of natural compounds

- ❖ Experience in natural compounds isolation such as HPLC, TLC, GC-MS methods (Analytical, preparative)
- ❖ Familiar with useful software (ACD Lab, Ortep3, SPSS, Office software, Reference Manager & Endnote).

پایانامه ها

پایانامه های دوره تخصصی

1. بررسی فیتوشیمیایی و اثرات سایتوتوکسیک گیاه *Sesbania punicea* (Cav.) Benth. بر مبنای bioassay guided fractionation
2. بررسی فیتوشیمیایی و ارزیابی اثرات ضدباکتریایی و ضدسرطانی گیاه *Chenopodium album subsp. striatum* (Krašan) Murr از خانواده تاج خروسیان
3. بررسی ویژگیهای فیتوشیمیایی و بیولوژیکی دو جنس ساقه خز (*Caucalis platycarpus*) و اناریجه (*Eryngium caucasicum*) از خانواده چتریان.

دوره دکترای عمومی داروسازی:

1. بررسی اثر ضد سرطانی ترکیبات فعال *Amaranthus blitoides* S.Watson بر روی رده سلولی H-29, MCF-7, PC-3 گیاه
2. بررسی مقایسه ای خصوصیات ظاهری, الگویی کروماتو گرافی و سمیت سلولی نمونه های ارائه شده به عنوان سداب در بازار گیاهان دارویی ایران در مقایسه با یک نمونه کاشته شده.
3. تعیین میزان لاروکشی و درو کنندگی عصاره گیاهان *Euphorbia microphaera* Boiss, *Chrozopora tinctoria*(L)A بر روی حشره *Anophel stephensi* و تعیین ترکیبات این دو گیاه.
4. بررسی خصوصیات رنگدانه های گلبرگ های زعفران به عنوان رنگ طبیعی.
5. بررسی و مقایسه کارایی روش های دستگاهی HPTLC, HPLC, EDAX, ICP-MS و الکتروشیمیایی در ردیابی تقلبات افشرد لیمو از دو جنس بر اساس متابولیت های ثانویه و اولیه و روش های کمومتریکس.
6. بررسی فیتوشیمیایی و دور کنندگی بالغین و لاروکشی گیاهان *Eryngium caucasicum* و *Caucalis platycarpus* بر روی پشه *Anophel stephensi*

۷. بررسی فیتوشیمیایی ترکیبات دی‌ترپنی، آلکالوئیدی و اثرات سایتو توکسیک گیاه '*Euphorbia amygdaloides* 'Purpurea
۸. بررسی فیتوشیمیایی ترکیبات فنولیک و تعیین اثر لاروکشی گیاه *Euphorbia amygdaloides* var *purpurea* بر بروی لارو حشره انوفل
۹. بررسی اثرات بهبود دهنده زخم حاصل از سوختگی با استفاده از پماد گیاه *Centella asiatica* "سنتی درم" در کارآزمایی تصادفی کنترل شده و مقایسه اثر آن با سیلورسولفادیازین.
۱۰. بررسی اثرات محافظت‌کنندگی کبدی گیاه *Acantholimon bracteatum* (Girard) Boiss در مدل آسیب کبدی ناشی از فرم آدهید در موش‌های بالغ نر
۱۱. بررسی اثرات محافظت‌کنندگی کبدی گیاه *Acantholimon gilliatii* در مدل آسیب کبدی ناشی از فرم آدهید در موش‌های بالغ نر
۱۲. بررسی فیتوشیمیایی و اثرات ضد لیشمانیایی گیاه *Carex pendula* Huds.
۱۳. بررسی بر هم‌کنش ترکیبات فلاونوئیدی با آنزیم‌های متابولیزه‌کننده دارو و ترانسپورترهای دارویی به منظور پیش‌بینی تداخلات فلاونوئیدها با سایر داروها به روش *in silico*
۱۴. بررسی اثر ضد التهاب عصاره هیدروالکلی و الکوئیدهای گیاه کارده
۱۵. بررسی اثر ضد التهاب عصاره هیدروالکلی و فراکسیون‌های گیاه *Brassica rapa subsp. rapa*
۱۶. تهیه قرص خوراکی از عصاره خشک آبی اسطوخودوس با هدف ارائه یک فرآورده گیاهی ضد اضطراب
۱۷. بررسی و تعیین ترکیبات شیمیایی گل‌های گیاه *Melaleuca citrina*(*curtis*) *dum.cours*
۱۸. بررسی ترکیبات شیمیایی گونه ای یاسمین بری (ظیان)

سوابق تدریس

- ❖ تدریس درس فارماکوگنوزی نظری از سال ۱۳۸۷ تا کنون
- ❖ تدریس درس خالص سازی و تعیین ترکیبات طبیعی (1387-1390)
- ❖ تدریس درس فارماکوگنوزی عملی از سال ۱۳۸۷ تا کنون
- ❖ تدریس درس گیاهان دارویی نظری از سال 1392 تا کنون
- ❖ تدریس درس گیاهان دارویی عملی از سال 1392 تا کنون
- ❖ تدریس درس مواد خوراکی و رژیم‌های درمانی از سال 1392 تا 1396

- ❖ کارگاه دو روزه کروماتوگرافی مایع با کارایی بالا سال 1397
- ❖ ارایه سخنرانی در سلسله سخنرانیهای مباحث اجتماعی - حرفه ای جهت بآموزی پزشکان و داروسازان سال 1392
- ❖ ارایه سخنرانی جهت بآموزی پزشکان و داروسازان با عنوان تجویز منطقی دارو سال 1390
- ❖ ارایه سخنرانی جهت بآموزی پزشکان و داروسازان با عنوان گیاه درمانی سال 1397