



Curriculum Vitae

Dr. Ardalan Pasdaran

Personal Details

Name	Ardalan Pasdaran
Gender	male
Nationality	Iranian
Date of Birth	26 th Feb, 1983
Place of Birth	Tehran, Iran
Occupation	PhD of Pharmacognosy, Doctor of Pharmacy
Current Position:	Shiraz University of Medical Sciences
Mobile	+989112474816
Email	Ardalan.pasdar@gmail.com, Pasdaran@sums.ac.ir

Education

Period	1996-1999 Ferdowsi 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 <i>Scrophularia amplexicaulis</i> Benth, <i>Scrophularia oxysepala</i> 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**, Hamedi A. (2017). 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 journal editorial board from 2016 (SNIP: 2.862; Q1)
- The Indian Journal of Natural Products and Resources (for the period 2022-2024) (ESCI (ISI), Scopus)
- Eurasian Journal of Biological and Chemical Sciences editorial board from 2018.
- Shiraz University of Medical Sciences outstanding professor (selected book chapter-2016).
- Shiraz University of Medical Sciences outstanding professor (education fields-2020).
- Scientific committee member of INTERNATIONAL CONFERENCE ON ENGINEERING, NATURAL AND APPLIED SCIENCE, Osmaniye, Turkey, on 24-26 November 2021.
- 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 2019-2021).
- Head of Pharmacognosy, Department of Pharmacognosy, Faculty of Pharmacy, Guilan University of Medical Sciences, Rasht, Iran (2012-2016).

1. Ebrahimi S, Paryad E, Khanghah AG, Pasdaran A, Leili EK, Meibodi AMS. The effects of lavandula aromatherapy on pain relief after coronary artery bypass graft surgery: A randomized clinical trial. *Applied Nursing Research*. 2022;68:151638.
2. Pasdaran A, Butovska D, Kerr P, Naychov Z, Aneva I, Kozuharova E. Gentians, natural remedies for future of visceral pain control; an ethnopharmacological review with an in silico approach. *Biologia Futura*. 2022:1-9.
3. Pasdaran A, Azarpira N, Heidari R, Nourinejad S, Zare M, Hamed A. Effects of some cosmetic dyes and pigments on the proliferation of human foreskin fibroblasts and cellular oxidative stress; potential cytotoxicity of chlorophyllin and indigo carmine on fibroblasts. *Journal of Cosmetic Dermatology*. 2022.
4. Rebiai A, Seghir BB, Hemmami H, et al. Quality Assessment of Medicinal Plants via Chemometric Exploration of Quantitative NMR Data: A Review. *Compounds*. 2022;2(2):163-181.
5. Anand A, Sharma A, Kaur Saini H, et al. Profiling of Plant Derived Natural Constituents by Using Magnetic Resonance Techniques. *Concepts in Magnetic Resonance Part A, Bridging Education and Research*. 2022;2022.
6. Kozuharova E, Pasdaran A, Al Tawaha AR, Todorova T, Naychov Z, Ionkova I. Assessment of the Potential of the Invasive Arboreal Plant *Ailanthus altissima* (Simaroubaceae) as an Economically Prospective Source of Natural Pesticides. *Diversity*. 2022;14(8):680.
7. Daglia M, Pasdaran A, Ahandani EA, Selamoglu Z. Medicinal plants as a hopeful therapeutic approach against COVID-19 infection. *Central Asian Journal of Medical and Pharmaceutical Sciences Innovation*. 2023;3(1):12-21.
8. Pasdaran A, Azarpira N, Yaghoobi Solut N, et al. Cytotoxic Properties, Anthocyanin and Furanocoumarin Content of Red-Pigments Obtained from *Callistemon citrinus* (Curtis) Skeels Flowers. *Research Journal of Pharmacognosy*. 2021;8(4):79-90.
9. Kouros Azizi A, NegarAzarpira, Azar Hamed A, Masoumeh Shahini, Ardalan Pasdaran A. A new cytotoxic sesquiterpene lactone from *Euphorbia microsphaera* Boiss against human breast cancer (MCF-7) and human fibrosarcoma (HT1080) cells. *Toxicol*. 2021;202:60–66.
10. Bozorgzadeh E, Pasdaran A, Ebrahimi-Najafabadi H. 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.
11. Selamoglu Z, Sevindik M, Bal C, Ozaltun B, Sen İ, Pasdaran A. Antioxidant, antimicrobial and DNA protection activities of phenolic content of *Tricholoma virgatum* (Fr.) P.Kumm. *Biointerface Research in Applied Chemistry*. 2020;10(3):5500-5506.
12. Sakhteman A, Pasdaran A, Afifi M, Hamed A. 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;25:2515690X20932527.
13. Rafieian-kopaei M, Hamed A, Soleiman Dehkordi E, Pasdaran A, Pasdaran A. Phytochemical investigation on volatile compositions and methoxylated flavonoids of *Agrostis gigantea* Roth. *Iranian Journal of Pharmaceutical Research*. 2020;19(2):360-370.
14. Pasdaran A, Sarker SD, Nahar L, Hamed A. 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):272-278.

15. Hamidi M, Gholipour AR, Delattre C, et al. Production, characterization and biological activities of exopolysaccharides from a new cold-adapted yeast: *Rhodotorula mucilaginosa* sp. GUMS16. *International Journal of Biological Macromolecules*. 2020;151:268-277.
16. Hamed A, Zengin G, Aktumsek A, Selamoglu Z, Pasdaran A. 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):5429-5454.
17. Hamed A, Pasdaran A, Pasdaran A. A trisaccharide phenylethanoid glycoside from *Scrophularia flava* Grau with potential anti-type 2 diabetic properties by inhibiting α -glucosidase enzyme and decreasing oxidative stress. *Bioorganic Chemistry*. 2020;99:103776-.
18. Hamed A, Heidari R, Raeisi A, Pasdaran A. 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):243-254.
19. Pasdaran A, Sarker SD, Nahar L, Hamed A. 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):272-278.
20. Moghaddam MSH, Safaie N, Soltani J, Pasdaran A. Endophytic association of bioactive and halotolerant *Humicola fuscoatra* with halophytic plants, and its capability of producing anthraquinone and anthranol derivatives. *Antonie van Leeuwenhoek*. 2019;113(2):279-291.
21. Hamed A, Zarshenas MM, Jamshidzadeh A, Ahmadi S, Heidari R, Pasdaran A. Citrus aurantium (bitter orange) seeds oil: pharmacognostic, anti-inflammatory and anti-nociceptive properties. *Trends in Pharmaceutical Sciences*. 2019;5(3):153-160.
22. Ebrahimi-Najafabadi H, Pasdaran A, Bezenjani RR, Bozorgzadeh E. Determination of toxic heavy metals in rice samples using ultrasound assisted emulsification microextraction combined with inductively coupled plasma optical emission spectroscopy. *Food Chemistry*. 2019;289:26-32.
23. Ebrahimi-Najafabadi H, Kazemeini SS, Pasdaran A, Hamed A. A novel similarity search approach for high-performance thin-layer chromatography (HPTLC) fingerprinting of medicinal plants. *Phytochemical Analysis*. 2019;30(4):405-414.
24. Dehghani SM, Bahrololomifard MS, Yousefi G, Pasdaran A, Hamed A. 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;238:111845.
25. Mohamadipour S, Hatamzadeh A, Bakhshi D, Pasdaran A. Antimicrobial activities of 'Caucalis platycarpos' L. and 'Eryngium caucasicum' Trautv. essential oils. *Australian Journal of Crop Science*. 2018;12(8):1357.
26. Mamedov NA, Pasdaran A, Mamadaliyeva NZM. Pharmacological studies of Syrian rue (*Peganum harmala* L., Zygophyllaceae). *International Journal of Secondary Metabolite*. 2018;5(1):1-6.
27. Khomarlou N, Aberoomand-Azar P, Pasdaran A, et al. Essential oil composition and in vitro antibacterial activity of *Chenopodium album* subsp. *striatum*. *Acta Biologica Hungarica*. 2018;69(2):144-155.
28. Jamshidzadeh A, Pasdaran A, Heidari R, Hamed A. Pharmacognostic and anti-inflammatory properties of *Securigera securidaca* seeds and seed oil. *Research Journal of Pharmacognosy*. 2018;5(3):31-39.
29. Hamed A, Sohrabpour M, Zarshenas MM, Pasdaran A. Phytochemical investigation and quantitative analysis of the fatty acids and sterol compounds of seven pharmaceutical valuable seeds. *Current Pharmaceutical Analysis*. 2018;14(5):475-482.
30. Ebrahimi Hosein Abadi S, Paryad E, Ghanbari Khanghah A, Pasdaran A, Kazem Nezhad Leyli E, Sadeghi Meibodi AM. Effects of Aromatherapy Using Lavender Oil on Hemodynamic Indices After Coronary Artery Bypass Graft Surgery. *Journal of Holistic Nursing And Midwifery*. 2018;28(3):163-170.

31. Shafipour SZ, Mosayebi N, Asgari F, Atrkarroushan Z, Pasdaran A. 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):198-206.
32. Saeidinia A, Keihanian F, Lashkari AP, et al. Partial-thickness burn wounds healing by topical treatment: A randomized controlled comparison between silver sulfadiazine and centiderm. *Medicine*. 2017;96(9):e6168.
33. Pasdaran A, Pasdaran A, Mamedov N. Antibacterial and Antioxidant Activities of the Volatile Composition of the Flower and Fruit of *Solanum sisymbriifolium* (Litchi Tomato). *Pharmaceutical Sciences*. 2017;23(1):66-71.
34. Pasdaran A, Hamed A. The genus *Scrophularia*: a source of iridoids and terpenoids with a diverse biological activity. *Pharmaceutical Biology*. 2017;55(1):2211-2233.
35. Pasdaran A, Hamed A. 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*. Vol 2. Academic Press is an imprint of Elsevier; 2017:223-253.
36. Pasdaran A, Delazar A, Ayatollahi SA, Pasdaran A. Chemical composition and biological activities of methanolic extract of *Scrophularia oxysepala* Boiss. *Iranian Journal of Pharmaceutical Research*. 2017;16(1):338-346.
37. Mamedov NA, Pasdaran A, Mamadalieva NZ. Pharmacological studies of Syrian rue (*Peganum harmala* L., Zygophyllaceae). *International Journal of Secondary Metabolite* 2017;5(1):1-6
38. Khomarlou N, Aberoomand-Azar P, Pasdaran A, Hakakian A, Ranjbar R, Ayatollahi S. 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;8:3696-3708.
39. Hamed A, Pasdaran A, Zebarjad Z, Moein M. 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):744-752.
40. Gazor R, Asgari M, Pasdaran A, Mohammadghasemi F, Nasiri E, Roushan ZA. Evaluation of hepatoprotective effect of *Acantholimon gilliati* aerial part methanolic extract. *Iranian Journal of Pharmaceutical Research*. 2017;16(Suppl):135-141.
41. Rouhollah Gazor AP, Shabnam Almasi. Effect of Brown Algae *Cystoseira trinodis* Methanolic Extract on Renal Tissue. *Pharmaceutical Sciences*. 2016;22:49-53.
42. Pasdaran A, Pasdaran A. Volatile oils: Potential agents for the treatment of respiratory infections. In: *The Microbiology of Respiratory System Infections (ISBN: 978-0-12-804543-5)*. Academic Press; 2016:237-261.
43. Pasdaran A, Hamed A, Mamedov NA. Antibacterial and insecticidal activity of volatile compounds of three algae species of Oman Sea. *International Journal of Secondary Metabolite*. 2016;3(2):66-73.
44. Pasdaran A, Delazar A, Ayatollahi SA, Nahar L, Sarker SD. Phytochemical and Bioactivity Evaluation of *Scrophularia amplexicaulis* Benth. *Records of Natural Products*. 2016;10(4):519-525.
45. Pasdaran A, Delazar A, Afshar FH, Parsa D. Contact Toxicity and Chemical Composition of Essential Oil of *Acantholimon scorpius*. *Pharmaceutical Sciences*. 2016;22(2):138-141.
46. Orangi M, Pasdaran A, Shanehbandi D, et al. Cytotoxic and apoptotic activities of methanolic subfractions of *Scrophularia oxysepala* against human breast cancer cell line. *Evidence-Based Complementary and Alternative Medicine*. 2016;2016.
47. Ebrahim Nasiri SN, 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):55-61.
48. Hosseini B-A, Pasdaran A, Kazemi T, et al. Dichloromethane fractions of *Scrophularia oxysepala* extract induce apoptosis in MCF-7 human breast cancer cells. *Bosnian Journal of Basic Medical Sciences*. 2015;15(1):26–32.
 49. Pasdaran A, Nahar L, Asnaashari S, Sarker SD, Delazar A. GC-MS analysis, free-radical-scavenging and insecticidal activities of essential oil of *Scrophularia oxysepala* boiss. *Pharmaceutical Sciences*. 2013;19(1):1-5.
 50. Orangi M, Baradaran B, Pasdaran A, Kazemi T, Hosseini B, Mohammadnejad L. Cytotoxic effect of methanolic fractions of *Scrophularia oxysepala* on MCF-7 human breast cancer cell line. Paper presented at: Front Immunol Conference Abstract: 15th International Congress of Immunology (ICI). doi: 103389/conf fimmu2013.
 51. Valiyari S, Baradaran B, Delazar A, Pasdaran A, Zare F. Dichloromethane and methanol extracts of *Scrophularia oxysepala* induces apoptosis in MCF-7 human breast cancer cells. *Advanced Pharmaceutical Bulletin*. 2012;2(2):223–231.
 52. Pasdaran A, Delazar A, Nazemiyeh H, Nahar L, Sarker SD. 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):350 - 355
 53. Valipour F, Esmhosseini M, Nejati K, Kianfar H, Pasdaran A, Davaran S. 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):041001.
 54. Afshar FH, Delazar A, Janneh O, et al. Evaluation of antimalarial, free-radical-scavenging and insecticidal activities of *Artemisia scoparia* and *A. Spicigera*, Asteraceae. *Revista Brasileira de Farmacognosia*. 2011;21(6):986-990.
 55. Asnaashari S, Delazar A, Alipour SS, et al. Chemical composition, free-radical-scavenging and insecticidal activities of the aerial parts of *Stachys byzantina*. *Arch Biol Sci*. 2010;62(3):653-662.

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*, May22-23, 2015, Tehran, Iran.
- 3) **Ardalan Pasdaran**. Toxicity and chemical compositions of essential oils isolated from three *Acantholimon* species to *Oryzephilus 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 gilliati*. *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) Azadeh Hamed, Zeliha Selamoglu, Azar Hamed, **Ardalan Pasdaran***. Some of the less famous Iranian traditional medicine remedies in tremor control. *2nd International Congress of the Turkish Journal of Agriculture - Food Science and Technology*. 25-29 December, 2021. Cyprus.

International Collaborations

- 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. Jrgen 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.

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).