

# **Bahman Nickavar**

**Department of Pharmacognosy, School of Pharmacy, Shahid Beheshti  
University of Medical Sciences**

**Address:** No. 2660, Niayesh junction, Vali-e Asr Ave., Tehran, Iran

**PO Box:** 14155-6153, Tehran, Iran

**Phone:** 00982188200064

**Fax:** 00982188665250

**E-mail:** [bnickavar@sbmu.ac.ir](mailto:bnickavar@sbmu.ac.ir)

## **Education**

- Ph.D.: Tehran University of Medical Sciences, Pharmacognosy (February 1997 – December 1994)
- Pharm.D.: Shahid Beheshti University of Medical Sciences, Pharmacy (February 1989 – November 1994)

## **Working Experience**

Shahid Beheshti University of Medical Sciences

- Professor: May 2012 to present
- Associate Professor: March 2007 – May 2012
- Assistant Professor: February 2002 – March 2007

## **Teaching Experience**

- Pharm.D. courses: Pharmacognosy, Pharmaceutical Botany, Food Supplements
- Ph.D. courses: Quality Control of Herbal Products, Extraction of Natural compounds

## **Journal Publications**

1. Nickavar B, Nickavar A. Compositional Analysis of Essential Oils from Two Mentha Species and in silico Study on their Major Volatile Constituents against Polycystic Ovary Syndrome. *Lett Drug Des Discov* 2023; 20 2:201-12.

2. Nickavar B, Malekitabar E. Compositional Analysis and Antioxidant Activities of Thymus pubescens Essential Oil from Iran. *Comb Chem High Throughput Screen* 2022; 25 2:252-8.
3. Nickavar B. Effect of organosulfur compounds from different garlic preparations on hyperlipidemia: An in-silico approach. *Biointerface Res Appl Chem* 2022; 12 3:4048-61.
4. Mehmannaavaz M, Nickavar B. Biotransformation of testosterone by the filamentous fungus Penicillium pinophilum. *Arch Microbiol* 2022; 204 9.
5. Nickavar B, Vahidi H, Eslami M. An efficient biotransformation of progesterone into 11 $\alpha$ -hydroxyprogesterone by Rhizopus microsporus var. oligosporus. *Z Naturforsch Sect C J Biosci* 2019; 74 1-2:9-15.
6. Nickavar B, Jabbareh F. Analysis of the Essential Oil from Mentha pulegium and Identification of its Antioxidant Constituents. *J Essent Oil-Bear Plant* 2018; 21 1:223-9.
7. Javid M, Nickavar B, Vahidi H, Faramarzi MA. Baeyer-Villiger oxidation of progesterone by Aspergillus sojae PTCC 5196. *Steroids* 2018; 140:52-7.
8. Nickavar B, Tavakoli F. Comparative Analysis of Volatile Constituents from Two Ziziphora clinopodioides Subspecies (Z. clinopodioides subsp. elbursensis and Z. clinopodioides subsp. filicaulis). *J Essent Oil-Bear Plant* 2016; 19 8:2072-6.
9. Nickavar B, Rezaee J, Nickavar A. Effect-directed analysis for the antioxidant compound in Salvia verticillata. *Iran J Pharm Res* 2016; 15 1:241-6.
10. Hosseinabadi T, Vahidi H, Nickavar B, Kobarfard F. Biotransformation of progesterone by whole cells of filamentous fungi Aspergillus brasiliensis. *Iran J Pharm Res* 2015; 14 3:919-24.
11. Nickavar B, Adeli A, Nickavar A. Analyses of the essential oil from Bunium persicum fruit and its antioxidant constituents. *J Oleo Sci* 2014; 63 7:741-6.
12. Nickavar B, Adeli A, Nickavar A. TLC-bioautography and GC-MS analyses for detection and identification of antioxidant constituents of Trachyspermum copticum essential oil. *Iran J Pharm Res* 2014; 13 1:127-33.
13. Hosseinabadi T, Vahidi H, Nickavar B, Kobarfard F. Fungal transformation of androsta-1,4-diene-3, 17-dione by Aspergillus brasiliensis. *DARU J Pharm Sci* 2014; 22 1.
14. Nickavar B, Abolhasani L. Bioactivity-guided separation of an  $\alpha$ -amylase inhibitor flavonoid from Salvia virgata. *Iran J Pharm Res* 2013; 12 1:57-61.
15. Nickavar B, Esbati N. Evaluation of the Antioxidant Capacity and Phenolic Content of Three Thymus Species. *JAMS J Acupunct Meridian Stud* 2012; 5 3:119-25.
16. Nickavar B, Yousefian N. Evaluation of  $\alpha$ -amylase inhibitory activities of selected antidiabetic medicinal plants. *J Verbraucherschutz Lebensmittelsicherh* 2011; 6 2:191-5.
17. Nickavar B, Mojab F, Sayyed MS, Rahro N, Kamali-nejad M, Mehregan H. Identification of substances in the essential oil and antibacterial activities of Heptaptera anisoptera (DC.) Turin. *J Med Plants* 2011; 10 40:26-32+199.
18. Nickavar B, Amin G. Enzyme assay guided isolation of an  $\alpha$ -amylase inhibitor flavonoid from Vaccinium arctostaphylos leaves. *Iran J Pharm Res* 2011; 10 4:849-53.
19. Nickavar B, Amin G. Bioassay-guided separation of an  $\alpha$ -amylase inhibitor anthocyanin from vaccinium arctostaphylos berries. *Z Naturforsch Sect C J Biosci* 2010; 65 C 9-10:567-70.
20. Nickavar B, Yousefian N. Inhibitory effects of six allium species on  $\alpha$ -amylase enzyme activity. *Iran J Pharm Res* 2009; 8 1:53-7.

21. Nickavar B, Sormaghi MS, Mohandesi S. Steam volatiles of *Cestrum nocturnum* flowers. *J Essent Oil-Bear Plant* 2009; 12 2:181-4.
22. Nickavar B, Mosazadeh G. Influence of three morus species extracts on  $\alpha$ -amylase activity. *Iran J Pharm Res* 2009; 8 2:115-9.
23. Nickavar B, Mojab F, Mojahedi A. Composition of the essential oil from *Anthriscus nemorosa*. *Chem Nat Compd* 2009; 45 3:443-4.
24. Nickavar B, Abolhasani FAS. Screening of antioxidant properties of seven Umbelliferae fruits from Iran. *Pak J Pharma Sci* 2009; 22 1:30-5.
25. Mojab F, Vahidi H, Nickavar B, Kamali-nejad M. Chemical components of essential oil and antimicrobial effects of rhizomes from *Cyperus rotundus* L. *J Med Plants* 2009; 8 32:91-7+186.
26. Mojab F, Behfar A, Kobarfard F, Nickavar B, Jafari B. Fatty acid composition of *Echium amoenum* Fisch et. Mey. seeds (Boraginaceae). *J Med Plants* 2009; 8 29:80-6+182.
27. Hooman N, Mojab F, Nickavar B, Pouryousefi-Kermani P. Diuretic effect of powdered *Cerasus avium* (cherry) tails on healthy volunteers. *Pak J Pharma Sci* 2009; 22 4:381-3.
28. Shahverdi AR, Ostad SN, Khodae S, Bitarafan L, Monsef-Esfahani HR, Jamalifar H, et al. Antimicrobial and cytotoxicity potential of *Peganum harmala* smoke. *Pharmacogn Mag* 2008; 4 15:236-40.
29. Nickavar B, Mojab F, Bamasian S. Volatile components from aerial parts of *lamium amplexicaule* from iran. *J Essent Oil-Bear Plant* 2008; 11 1:36-40.
30. Nickavar B, Alinaghi A, Kamalinejad M. Evaluation of the antioxidant properties of five *Mentha* species. *Iran J Pharm Res* 2008; 7 3:203-9.
31. Nickavar B, Abolhasani L, Izadpanah H.  $\alpha$ -Amylase inhibitory activities of six *Salvia* species. *Iran J Pharm Res* 2008; 7 4:297-303.
32. Nickavar B. Essential oil composition of fruits and leaves of *petroselinum hortense* from iran. *J Essent Oil-Bear Plant* 2008; 11 6:603-8.
33. Mojab F, Hamedi A, Nickavar B, Javidnia K. Hydrodistilled volatile constituents of the leaves of *daucus carota* l. subsp. *sativus* (hoffman.) arcang. (apiaceae) from iran. *J Essent Oil-Bear Plant* 2008; 11 3:271-7.
34. Nickavar B, Kamalinejad M, Izadpanah H. In vitro free radical scavenging activity of five *Salvia* species. *Pak J Pharma Sci* 2007; 20 4:291-4.
35. Monsef-Esfahani HR, Karamkhani F, Nickavar B, Abdi K, Faramarzi MA. The volatile constituents of *Dracocephalum kotschy* oils. *Chem Nat Compd* 2007; 43 1:40-3.
36. Mojab SF, Tabatabai SA, Naghdi-Badi H, Nickavar B, Ghadyani F. Essential oil of the root of *Tanacetum parthenium* (L.) Schulz. Bip. (Asteraceae) from Iran. *Iran J Pharm Res* 2007; 6 4:291-3.
37. Mojab F, Javidnia K, Nickavar B, Yazdani D. GC-MS Analysis of the Essential Oils of Roots and Leaves of *Foeniculum vulgare* Mill. *J Essent Oil-Bear Plant* 2007; 10 1:36-40.
38. Amin G, Salehi Sormaghi MH, Nickavar B, Dorraj G. Study on microscopical characteristic and composition of the volatile oil of fruit of *Petroselinum hortense* Hoffm. *J Med Plants* 2007; 6 21:61-6+8.
39. Nickavar B, Kamalinejad M, Mohandesi S. Comparison of the components of the essential oils from leaves and fruits of *Grammosciadium platycarpum*. *Chem Nat Compd* 2006; 42 6:686-8.

40. Nickavar B, Kamalinejad M, Haj-Yahya M, Shafaghi B. Comparison of the free radical scavenging activity of six Iranian Achillea species. *Pharm Biol* 2006; 44 3:208-12.
41. Shahverdi AR, Monsef-Esfahani HR, Nickavar B, Bitarafan L, Khodae S, Khoshakhlagh N. Antimicrobial activity and main chemical composition of two smoke condensates from Peganum harmala seeds. *Z Naturforsch Sect C J Biosci* 2005; 60 9-10:707-10.
42. Nickavar B, Mojab F, Dolat-Abadi R. Composition of the volatile oil of Thymus daenensis Celak. subsp. daenensis. *J Med Plants* 2005; 4 13:45-9.
43. Nickavar B, Mojab F, Dolat-Abadi R. Analysis of the essential oils of two Thymus species from Iran. *Food Chem* 2005; 90 4:609-11.
44. Nickavar B, Mojab F, Asgarpanah J. Volatile composition of the essential oil of Salvia hypoleuca Benth. *Int J Aromather* 2005; 15 1:51-3.
45. Nickavar B, Mojab F. Hydrodistilled volatile constituents of calamintha officinalis moench from Iran. *J Essent Oil-Bear Plant* 2005; 8 1:23-7.
46. Mojab F, Shafaati A, Nickavar B, Karimian L. Physicochemical quality control of senna products from Iranian phytopharmaceutics. *J Med Plants* 2005; 4 14:30-5.
47. Nickavar B, Dolat-Abadi R, Mojab F, Motamed SM. Volatile constituents of the fruit husk of pistacia vera l. from Iran. *J Essent Oil-Bear Plant* 2004; 7 2:171-4.
48. Nickavar B, Amin G, Yosefi M. Volatile constituents of the flower and fruit oils of Pittosporum tobira (Thunb.) Ait. grown in Iran. *Z Naturforsch Sect C J Biosci* 2004; 59 3-4:174-6.
49. Nickavar B, Amin G. Anthocyanins from Vaccinium arctostaphylos berries. *Pharm Biol* 2004; 42 4-5:289-91.
50. Nickavar B, Mojab F, Javidnia K, Roodgar Amoli MA. Chemical Composition of the Fixed and Volatile Oils of Nigella sativa L. from Iran. *Z Naturforsch Sect C J Biosci* 2003; 58 9-10:629-31.
51. Nickavar B, Mojab F. Antibacterial activity of Pulicaria dysenterica extracts. *Fitoterapia* 2003; 74 4:390-3.
52. Nickavar B, Amin G, Salehi-Sormagi MH. Anatomical study on Vaccinium arctostaphylos L. *Pharmazie* 2003; 58 4:274-8.
53. Nickavar B, Amin G, Parhami S. Volatile constituents of the fruit and leaf oils of Thuja orientalis L. grown in Iran. *Z Naturforsch Sect C J Biosci* 2003; 58 3-4:171-2.
54. Nickavar B, Amin G, Mehregan N. Quercetine, a major flavonol aglycon from tanacetum balsamita l. *Iran J Pharm Res* 2003; 2 4:249-50.
55. Mojab F, Nickavar B. Composition of the essential oil of the root of heracleum persicum from iran. *Iran J Pharm Res* 2003; 2 4:245-7.
56. Nickavar B, Salehi-Sormagi MH, Amin G, Daneshtalab M. Steam volatiles of Vaccinium arctostaphylos. *Pharm Biol* 2002; 40 6:448-9.
57. Nickavar B, Amin GR, Ghavamian P. Antimicrobial activity of pulicaria dysenterica l. *Iran J Pharm Res* 2002; 1 1:31-2.

## Research Projects

1. Compositional analysis of essential oils from two *Mentha* species and in silico study on their major volatile constituents against polycystic ovary syndrome. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. January 2023.
2. Biotransformation of testosterone by the filamentous fungus *Penicillium pinophilum*. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. December 2022.
3. Compositional analysis and antioxidant activities of *Thymus pubescens* essential oil from Iran. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. February 2022.
4. Investigation of progesterone biotransformation by *Rhizopus microsporus* var. *oligosporus* and production of 11 $\alpha$ -hydroxyprogesterone. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. April 2021.
5. Study on antioxidant activity of the essential oil of *Bunium persicum* fruit and identification of its active constituents. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. July 2015.
6. Antioxidant activities of four *Thymus* species. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. December 2011.
7. Free radical scavenging and antioxidant activities of five *Mentha* species. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. September 2008.
8. Free radical scavenging activities of six *Achillea* species from Iran. Approved by Shahid Beheshti University of Medical Sciences, School of Pharmacy. May 2006.

## Books

1. Iranian Herbal Pharmacopoeia. 1<sup>st</sup> ed. Tehran: Iran Food and Drug Administration, 2003. Manned Alhagi, p. 244-8.
2. Iranian Herbal Pharmacopoeia. 1<sup>st</sup> ed. Tehran: Iran Food and Drug Administration, 2003. Alyssi homalocarpi semen, p. 565-70.
3. Iranian Herbal Pharmacopoeia. 1<sup>st</sup> ed. Tehran: Iran Food and Drug Administration, 2003. Astragale manna, p. 673-9.

## Supervised Students

- Two pharmacognosy Ph.D. students
- Sixteen Pharm.D. students