

Personal information:

First Name: Samira

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Place of birth: Kermanshah, Iran

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Language skills: English

Degrees obtained:

PhD course: PhD of Pharmacology, Faculty of Medicine, Tehran University of Medical Sciences, Tehran, Iran.

PhD Thesis Topics: In vitro evaluation of effects of metformin on morphine and methadone tolerance through mammalian target of rapamycin signaling pathway

PhD Thesis Supervisors: Prof AR. Dehpour, Dr. M. Sahebgharani

PhD Thesis Advisers: Dr F. Noorbakhsh

PharmD course: Pharmacy Doctorate (PharmD), Faculty of Pharmacy, Kermanshah University of Medical Sciences, Kermanshah, Iran.

PharmD Thesis Topics: Synthesis and Leishmanicidal Activity of 1-[5-(5-nitrofuranyl)-1,3,4-thiadiazole-2-yl]-4-benzoylpiperazines

PharmD Thesis Supervisors: Dr. H. Adibi, Prof. A. Foroumadi

PharmD Thesis Advisers: Dr. SK. Ardestani

Teaching experiences:

- Pharmacology for pharmacy
- Pharmacology for prehospital medical services
- Pharmacology for nursing and Midwifery
- Pharmacology for Anesthesiology
- Pharmacology for Physiotherapy
- pharmacology for Audiometry

AWARDS:

2nd Best Student in the Entrance Exam of PhD of Pharmacology (2015).

1st Best Ph.D. Student in the Board Exam of PhD course (2017).

Publications:

- **Shirooie S**, Sahebgharani M, Esmaeili J, Dehpour AR. In vitro evaluation of effects of metformin on morphine and methadone tolerance through mammalian target of rapamycin signaling pathway. *Journal of cellular physiology*. 2019 Mar;234(3):3058-66.
- Yousefi-Manesh H, **Shirooie S**, Partoazar A, Nikoui V, Estakhri MR, Bakhtiarian A. Hepatoprotective effects of phosphatidylserine liposomes on carbon tetrachloride-induced hepatotoxicity in rats. *Journal of cellular biochemistry*. 2019 Feb 15.
- Foroumadi A, Adibi H, Ardestani SK, **Shirooie S**, Bozorgomid A, Jafari A. Synthesis and Leishmanicidal Activity of 1-[5-(5-nitrofuranyl)-1, 3, 4-thiadiazole-2-yl]-4-benzoylpiperazines. *Iranian journal of pharmaceutical research: IJPR*. 2017;16(3):904.
- Nabavi SF, Khan H, D'onofrio G, Šamec D, **Shirooie S**, Dehpour AR, Argüelles S, Habtemariam S, Sobarzo-Sanchez E. Apigenin as neuroprotective agent: Of mice and men. *Pharmacological research*. 2018 Feb 1;128:359-65.
- Nabavi SF, Sureda A, Dehpour AR, **Shirooie S**, Silva AS, Devi KP, Ahmed T, Ishaq N, Hashim R, Sobarzo-Sánchez E, Daglia M. Regulation of autophagy by polyphenols: Paving the road for treatment of neurodegeneration. *Biotechnology advances*. 2018 Nov 1;36(6):1768-78.
- Nabavi SM, Nabavi SF, Sureda A, Xiao J, Dehpour AR, **Shirooie S**, Silva AS, Baldi A, Khan H, Daglia M. Anti-inflammatory effects of Melatonin: A mechanistic review. *Critical reviews in food science and nutrition*. 2018 Jun 12(just-accepted):01-62.
- Nabavi SM, Šamec D, Tomczyk M, Milella L, **Shirooie S**, Russo D, Habtemariam S, Sutar I, Rastrelli L, Daglia M, Xiao J, Giampieri F. Flavonoid biosynthetic pathways in plants: Versatile targets for metabolic engineering. *Biotechnology advances*. 2018 Nov 17.
- **Shirooie S**, Nabavi SF, Dehpour AR, Belwal T, Habtemariam S, Argüelles S, Sureda A, Daglia M, Tomczyk M, Sobarzo-Sanchez E, Xu S. Targeting mTORs by omega-3 fatty acids: A possible novel therapeutic strategy for neurodegeneration? *Pharmacological research*. 2018 Jul 7.
- Nabavi SF, Atanasov AG, Khan H, **Shirooie S**, Barreca D, Trombetta D, Testai L, Sureda A, Tejada S, Vacca RA, Pittalà V, Gulei D. Targeting ubiquitin-proteasome pathway by natural, in particular polyphenols, anticancer agents: Lessons learned from clinical trials. *Cancer letters*. 2018 Oct 10;434:101-13.
- Efferth T, Saeed ME, Kadioglu O, Seo EJ, **Shirooie S**, Mbaveng AT, Nabavi SM, Kuete V. Collateral sensitivity of natural products in drug-resistant cancer cells. *Biotechnology advances*. 2019 Jan 29.
- Bozorgomid A, Hajipirloo HM, Tappeh KH, Nazari N, Karamati SA, **Shirooie S**. Evaluation of the alum–naloxone adjuvant activity against experimental murine leishmaniasis due to *L. major*. *Journal of parasitic diseases*. 2016 Dec 1;40(4):1141-5.
- Salaritabar A, Berindan-Neagoe I, Darvish B, Hadjiakhoondi F, Manayi A, Devi KP, **Shirooie S**, Barreca D, Orhan IE, Süntar I, Farooqi AA, Gulei D. Targeting Hedgehog signaling pathway: Paving the road for cancer therapy. *Pharmacological research*. 2019 Jan 11;141:466-80.

- Nabavi SM, Ahmed T, Nawaz M, Devi KP, Balan DJ, Pittalà V, **Shirooie S**, Argüelles-Castilla S, Testai L, Khan H, Sureda A, de Oliveira MR. Targeting STATs in neuroinflammation: The road less traveled!. *Pharmacological research*. 2018 Dec 11.
- Di Lorenzo A, Sobolev AP, Nabavi SF, Sureda A, Moghaddam AH, Khanjani S, Di Giovanni C, Xiao J, **Shirooie S**, Sokeng AJ, Baldi A. Antidepressive effects of a chemically characterized maqui berry extract (*Aristotelia chilensis* (molina) stuntz) in a mouse model of Post-stroke depression. *Food and Chemical Toxicology*. 2019 Jul 1;129:434-43.
- Vacca RA, Bawari S, Valenti D, Tewari D, Nabavi SF, **Shirooie S**, Sah AN, Volpicella M, Braidy N, Nabavi SM. Down syndrome: Neurobiological alterations and therapeutic targets. *Neuroscience & Biobehavioral Reviews*. 2019 Jan 4.
- Smeriglio A, Denaro M, Mastracci L, Grillo F, Cornara L, **Shirooie S**, Nabavi SM, Trombetta D. Safety and efficacy of hydroxytyrosol-based formulation on skin inflammation: in vitro evaluation on reconstructed human epidermis model. *DARU Journal of Pharmaceutical Sciences*. 2019 May 26:1-1.
- Nabavi SF, Sureda A, Sanches-Silva A, Pandima Devi K, Ahmed T, Shahid M, Sobarzo-Sánchez E, Dacrema M, Daglia M, **Shirooie S**, Braidy N, Vacca RA. Novel therapeutic strategies for stroke: The role of autophagy. *Critical reviews in clinical laboratory sciences*. 2019 Apr 3;56(3):182-99.