



Sabzevar University of Medical Sciences, Faculty of Medicine

***Bahareh Amin***

*Department of Physiology and Pharmacology, Faculty of Medicine, Sabzevar University of  
Medical Sciences*



*amin.bahareh@gmail.com*

*Tel: (office) +98 51*

*44419566- Ext 281*

*Fax: +98 51 44445648  
Postal Code: 96135 (Box: 319)*

## **PERSONAL INFORMATION**

---

**Name:** Bahareh

**Surname:** Amin

**Date of Birth:** 10 May 1976, Mashhad, Iran

**Marriage status:** Married, one child.

## **EDUCATIONAL BACKGROUND**

---



Sabzevar University of Medical Sciences, Faculty of Medicine

Pharm D: School of Pharmacy, Kerman University of Medical Sciences, Iran (1995-2001).

Ph.D. of Pharmacology: Department of Pharmacology and Toxicology, Isfahan University of Medical Sciences, Iran (2006-2012).

### **PhD THESIS TITLE**

---

**Antinociceptive evaluation of ceftriaxone and minocycline alone and in combination on chronic constriction injury (CCI) model of neuropathic pain and their effects on spinal proinflammatory cytokines in rats**

**(Supervisor: Professor Valliollah Hajhashemi)**

### **MOST IMPORTANT POSTS HELD**

---

1. Administrator of Food and Drug. Gonabad University of Medical Sciences 2001- 2004.
2. Manager of my private pharmacy. 2001- 2005.
3. Member of Department of Physiology and Pharmacology as an Assistant Professor. Sabzevar University of Medical Sciences. 2013- Continued.
4. Administrator of Development of Technology. Sabzevar University of Medical Sciences. 2014- Continued.

### **RESEARCH INTERESTS**

---

My main focus is characterizing the behavior of animals after induction of different kinds of acute and chronic pain, induction of opioid tolerance and dependence, induction of ethanol dependence and induction of stress in animal models. We evaluate anti-nociceptive, anti-depressant and anti-anxiety effects of different drugs especially herbal medicine and their active constituents to find out molecular mechanisms and signaling pathways through



Sabzevar University of Medical Sciences, Faculty of Medicine

behavioral endpoints, gene expression and protein changes by using real time PCR as well as western blotting, respectively.

## CONFERENCE PARTICIPATION

---

- 1- Effect of glibenclamide on the antinociceptive effects of antidepressants of different classes. 12th Iranian Pharmaceutical Sciences Conference, Zanjan, Iran (poster).
- 2- Antinociceptive evaluation of ceftriaxone and minocycline alone and in combination in a neuropathic pain model in rat. 13th Iranian Pharmaceutical Sciences Conference, Isphahan, Iran (oral).
- 3- Ceftriaxone, a GLT1 activator, prevents pain behaviours and modulates apoptosis pathways in a rat model of neuropathic pain. 2th Basic and Clinical Neuroscience Congress, Tehran, Iran (oral).
- 4- Evaluation of aqueous and ethanolic extracts of *Crocus sativus* L., and its constituents, safranal and crocin on the allodynia and hyperalgesia induced by chronic constriction injury model of neuropathic pain in rats. 21th Congress of Physiology and Pharmacology. Tabriz, Iran (poster).
- 5- Effects of intraperitoneal thymoquinone on chronic neuropathic pain in rats. 4th International Symposium on Molecular Technology in Tehran, Iran (poster).

## PUBLICATIONS

---

- 1- Effect of glibenclamide on antinociceptive effects of antidepressants of different classes  
Valiollah Hajhashemi, **Bahareh Amin**. CLINICS 2011; 66:321-325.



Sabzevar University of Medical Sciences, Faculty of Medicine

- 2- Evaluation of aqueous and ethanolic extracts of saffron, *Crocus sativus* L., and its constituents, safranal and crocin in allodynia and hyperalgesia induced by chronic constriction injury model of neuropathic pain in rats. **Bahareh Amin**, Hossein Hosseinzadeh. *Fitoterapia* 2012; 83:888-895.
- 3- Persian herbal medicines with anxiolytic properties. Rabbani M, Vaseghi G, Sajjadi SE, **Amin B**. *Journal of Medicinal Plant* 2011; 3 (39):7-11.
- 4- Antiallodynia and antihyperalgesia effects of ceftriaxone in treatment of chronic neuropathic pain in rats. Hajhashemi V, Hosseinzadeh H, **Amin B**. *Acta Neuropsychiatrica* 2013; 25: 27-32.
- 5- Antinociceptive evaluation of ceftriaxone and minocycline alone and in combination in a neuropathic pain model in rat. **Amin B**, Hajhashemi V, Hosseinzadeh H, Abnous K. *Neuroscience* 2012; 224:15-25.
- 6- Minocycline potentiates the anti hyperalgesic effect of ceftriaxone in CCI-induced rats. **Bahareh Amin**, Valiollah Hajhashemi, a, Hossein Hosseinzadehb. *Research in pharmaceutical research*. 2015; 10(1): 19-27.
- 7- Attenuation of oxidative stress, inflammation and apoptosis by ethanolic and aqueous extracts of *Crocus sativa* L. stigma after chronic constriction injury of rats. **Bahareh Amin**, Khalil Abnous, Vahideh Motamed shariaty, Hossein Hosseinzadeh. *Anais de Academia Brazilia* 2014; 86 (4): 1821-1832.
- 8- Ceftriaxone, a beta-lactam antibiotic, modulates apoptosis pathways and oxidative stress in a rat model of neuropathic pain. **Bahareh Amin**, Khalil Abnous, Hossein Hosseinzadeh\*. *Biomed research international* 2014; 2014:937568.
- 9- Effects of intraperitoneal thymoquinone on chronic neuropathic pain in rats. **Bahareh Amin**, Mohammad Mehdi Taheri Heravi, Hossein Hosseinzadeh. *Planta Medica* 2014; 80(15):1269-1277.
- 10- Protective effect of the aqueous extract of *crocus sativa* against ethylene glycol induced nephrolithiasis in rats. **Bahareh Amin**, Reihaneh Moghri, Hossein Hosseinzadeh. *EXCLI Journal*. 2015;14:411-422.



Sabzevar University of Medical Sciences, Faculty of Medicine

- 11- Antilithiatic effects of crocin in ethylene glycol-induced lithiasis in rats. **Bahareh Amin**, Fatemeh Abbasi, Hossein Hosseinzadeh\*. *Urolithiasis* 2014; 42: 549-558.
12. Effect of *Crocus sativus* extracts and its active constituent safranal on the harmaline-induced tremors in the mice. **Bahareh Amin**; Mahshad Malekzadeh; Mahmoud Reza Heidari; Hossein Hosseinzadeh. *Iranian J Basic Med Sci* 2015; 18: 449-458.
- 13- Cronin effects on human myeloma cells regarding intracellular redox state, DNA fragmentation, and apoptosis or necrosis profi. Ramin Rezaee; Khadijeh Jamialahmadi; Bamdad Riahi Zanjani; Mahmoud Mahmoudi; Khalil Abnous; Shahrzad Zamani Taghizadeh Rabe; Nafiseh Tabasi; Marjan Zali; Marjan Rezaee; **Bahareh Amin**; Gholamreza Karimi. *Jundishapur J Nat Pharm Prod* 2014; 9(4): e20131.
14. Evaluating the association between genetic polymorphisms of calprotectin and inflammatory bowel diseases (Persian). Mehdi Molavi, Hafez Fakhari, Ali Bahari, Hasan Vosoughinia, Zohreh Bari, Abbas Esmaelzadeh, Azita Ganji, Mohammad Hashemi, Mohammad khajedaloui, Gholamreza Bahari, **Bahareh Amin**, Kamran Ghaffarzadegan. *Medical Journal of Mashhad University of Medical Sciences* 2015; 85: 1-6
15. Evaluation of the antidepressant-like effects of acute and sub-acute administration of crocin and crocetin in mice. **Amin B**, Nakhsaz A, Hosseinzadeh H. *Avicenna J Phytomed.* 2015; 5(5):458-468.
16. The Effect of verbascoside in neuropathic pain induced by chronic constriction injury in rats. **Amin B**, Poureshagh E, Hosseinzadeh H. *Phytother Res.* 2016;30(1):128-135.
17. Black Cumin (*Nigella sativa*) and its active constituent, thymoquinone: An overview on the analgesic and anti-inflammatory effects. **Amin B**, Hosseinzadeh H. *Planta Med.* 2016;82(1-02):8-16.
18. Effect of *Crocus sativus* extracts and its active constituent safranal on the harmaline-induced tremor in mice. **Amin B**, Malekzadeh M, Heidari MR, Hosseinzadeh H. *Iran J Basic Med Sci.* 2015;18(5):449-458.
19. Learning and memory performance after withdrawal of agent abuse: A Review. **Bahareh Amin**, Sasan Andalib, Golnaz Vaseghi, Azadeh Mesripour. *Iranian Journal of Psychiatry and Behavioral Sciences* 2016 10(2):e1822.
20. Effect of alcoholic extract of aerial parts of *Rosmarinus officinalis* L. on pain, inflammation and apoptosis induced by chronic constriction injury (CCI) model of



Sabzevar University of Medical Sciences, Faculty of Medicine

neuropathic pain in rats. Mahboobeh Rahbardar Ghasemzadeh, **Bahareh Amin**, Soghra Mehri, Seyed Javad Mirnajafi-Zadeh, Hossein Hosseinzadeh. Journal of Ethnopharmacology 2016; 194:117-130.

21. Anti-inflammatory effects of ethanolic extract of *Rosmarinus officinalis* L. and rosmarinic acid in a rat model of neuropathic pain. Mahboobeh Ghasemzadeh Rahbardar, **Bahareh Amin**, Soghra Mehri, Seyed Javad Mirnajafi-Zadeh, Hossein Hosseinzadeh. Biomedicine & Pharmacotherapy 2017; 86:441-449.

22. Enhancement of antinociceptive effect by co-administration of amitriptyline and *Crocus sativus* in a rat model of neuropathic pain. **Bahareh Amin**, Samira Hosseini, Hossein Hosseinzadeh. Iranian Journal of Pharmaceutical Research 2017.

23. Protective effects of atorvastatin against morphine-induced tolerance and dependence in mice. Nasim Sadat Pajohanfar, Ehsan Mohebbi, Abolfazl Rad, Akbar Pejhan, Samad Nazemi, **Bahareh Amin\***. Brain Research 2017;1657:333-339.

### Persian papers:

1. Formulation of Erythromycin and Tretinoin in a topical gel base. Khazaeli P, Ansari M, Saryazdi S, **Amin B**. Journal of Kerman University of Medical Sciences 2004; 11 (3) : 187-178.

Satins and osteoporosis-2

ماهنامه علوم داروئی رازی خرداد ۱۳۸۹

بهاره امین، محسن مینائیان

3-کاربردهای درمانی CURCUMIN ماهنامه علوم داروئی رازی دی ماه ۱۳۸۹

بهاره امین، عباس جعفریان دهکردی

### Books:

A section entitled: Extracts of saffron, *Crocus sativus* L., in neuropathic pain

From the book: Bioactive Nutraceuticals and Dietary Supplements in Neurological and Brain Disease: Prevention and Therapy. **Bahareh Amin**, Hossein Hosseinzadeh.

The most important drug interactions (Persian). **Bahareh Amin**, Meysam Tabarrayee.



Sabzevar University of Medical Sciences, Faculty of Medicine

## **TEACHING EXPERIENCES**

---

- Pharmacology for students of Medicine
- Instructor in four scientific software endnote workshop

## **WORKSHOPS**

---

1. Practical analytical methods for diagnosis of narcotics and substance abuse  
(*mashhad- Iran. 6-9 September 2011*)
2. (Experimental models of stroke) Middle cerebral artery occlusion and global cerebral  
(*Mashhad- Iran. 9 September 2011*)
3. Workshop on practicing western blot (*Mashhad- Iran. 2011*)

## **HOBBIES**

---

Swimming, Jogging.