



Kerman University
of Medical Sciences

Curriculum Vitae
Dr. Azadeh Aminzadeh
Ph.D., Associate Professor of Pharmacology
Update (20.June.2024)



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Work Address:

➤ **Associate Professor of Pharmacology**

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Education:

➤ **Scholarship of Kerman University of Medical Sciences**

Department of Pharmacology and Toxicology, Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran

➤ **Ph.D.**

Department of Pharmacology, Faculty of Medicine, Iran University of Medical Sciences, Tehran, Iran

Ph. D. Thesis:

- Study of neuroprotective effect and mechanism of lithium on high glucose- induced neurotoxicity in PC12 cells

Societies Memberships:

- Member of Education Development Organization (EDO), Faculty of Pharmacy, Kerman University of Medical Sciences, Kerman, Iran (2015-present)
- Pharmaceutics Research Center, Institute of Neuropharmacology, Kerman University of Medical Sciences, Kerman, Iran (2015- present)

Participate as Reviewer in the following journals:

- Biomedicine & Pharmacotherapy
- Molecular Biology Reports
- Phytotherapy Research
- Iranian Journal of Physiology and Pharmacology
- Journal of Kerman University of Medical Sciences
- ...

Academic skills:

- Pharmacology
- Toxicology
- Neurodegenerative Diseases
- Cardiovascular Diseases
- Cell Culture Techniques
- Cell Biology
- Molecular Biology

Thesis advisor and Supervisors:

- Investigation the effect of rezveratrol on arsenic toxicity induced-learning and memory impairments in rats
- Study of effect of ellagic acid on cadmium-induced neurotoxicity in PC12 cells
- Effect of swimming exercise on depression in streptozocin-induced Alzheimer in male mice
- Study of protective effects of deferoxamine on lead-induced toxicity in rats
- Studying effect of citicoline on lead-induced neurotoxicity in PC12 cells
- Study of the effects of resveratrol on pain threshold in valproic acid-induced autism in rats
- Investigating the effect of early handling on anxiety-like behaviors of rats exposed to valproic acid pre- and post-natally
- Study of neuroprotective effect of cyclosporine on oxidative stress-induced neurotoxicity in PC12 cells
- Investigation of the effect of Persian cobra venom (*Naja naja oxiana*) on induction of apoptosis and inhibition of cell growth on Glioblastoma cell line (U87-MG)
- Study of protective effect of ellagic acid on high concentration glucose-induced toxicity in H9C2 cells
- Evaluation of cytotoxic effect of Glycyrrhizin and Bleomycin and simultaneous impact of them on A549 cells
- Studying the protective effect of citicoline on arsenic- induced cytotoxicity in H9C2 cells
- Study of protective effects of tropisetron on arsenic-induced toxicity in rats
- Evaluation of cytotoxic effect of thymoquinone and paraquat and simultaneous impact of them on A549 cells
- ...

Thesis Referees:

- Synthesis, characterization and cellular toxicity of layered double hydroxide (LDH) nanostructures as potential drug carriers
- The effect of betulinic acid on cytotoxicity induced by hydrogen peroxide on MCF-7 cell line
- Evaluation the anti-inflammatory effect of *Zhumeria majdae* extract on Lipopolysaccharide (LPS) - stimulated murine macrophage J774A.1
- Evaluation of the effect of pentoxifylline on morphine withdrawal symptoms in male mice

- Investigation the neurotoxicity of zinc nanoparticles with colorimetric and enzyme release methods in PC12
- Preparation of Synthesized Polylactic Acid/ Chitosan Nano-Fibers Containing and Liver for studying healing effect in experimental diabetic wounds in Animal Studies
- Study of poisoning with paraquat herbicide in the last 3 years in a retrospective study
- Evaluation the neuroprotective effect of biogenic selenium nanoparticles on Cisplatin-induced neurotoxicity in PC12 cell line
- The relationship between blood concentration of methadone and its metabolite (EDDP) and clinical signs in methadone-intoxicated people
- Investigative of relationship between the severity of oxidative stress with severity of poisonousness and clinical response in methadone poisoning
- Investigating the relationship between oxidative stress and plasma sialic in type 2 diabetics and the relationship between these factors and other complications of diabetes
- Protective effects of Zataria multiflora boiss extract. against oxidative stress caused by subacute exposure to arsenic in the liver and blood of male rats
- Evaluating effects of Rosmarinus officinalis on oxidative stress factors in students
- ...

Attendance in Congress:

1. Aminzadeh A, Dehpour AR, Sharifi AM. Protective effect of lithium against high glucose-induced neurotoxicity in PC12 cells through the ROS mediated JNK and P38 MAPKs, and mitochondrial apoptotic pathway. 4th international symposium on molecular technology, 2014, Tehran, Iran
2. Aminzadeh A, Mehrabani M, Sharifi AM. Study of impaired pathway in adipose-derived mesenchymal stem cell isolated from diabetic rats: Role of apoptosis. 4th international symposium on molecular technology, 2014, Tehran, Iran
3. Aminzadeh A, Dehpour AR, Sharifi AM. Effect of lithium on high glucose-induced neurotoxicity in PC12 cells: role of Bax protein. 1th international and 22th Iranian congress of physiology and pharmacology, 2015, Kashan, Iran
4. Aminzadeh A. Neuroprotective effects of moclobemide on high glucose-induced oxidative stress in PC12 cells. 4th congress of basic and clinical neuroscience, 2015, Tehran, Iran
5. Aminzadeh A. Protective effect of N-acetylcysteine against oxidative damage induced by high glucose in neuronal PC12 cells. 12th Iranian congress of anatomical sciences, 2016, Tehran, Iran
6. Aminzadeh A. Investigating the effect of moclobemide on high glucose-induced mitochondrial dysfunction in neuronal PC12 cells. 12th Iranian congress of anatomical sciences, 2016, Tehran, Iran

1. Liravi, A, Mehrabani, M, Karami-Mohajeri, S, Aminzadeh A. Neuroprotective Effect of Cyclosporine Against Oxidative Stress-Induced Neurotoxicity in PC12 Cells. Proc. Natl. Acad. Sci., India, Sect. B Biol. Sci. 2024;94, 41–45.
2. Darijani MH, Aminzadeh A, Rahimi HR, Mandegary A, Heidari MR, Karami-Mohajeri S, Jafari E. Evaluating the protective effect of metformin against diclofenac-induced oxidative stress and hepatic damage: In vitro and in vivo studies. Biochem Biophys Res Commun. 2023 Dec 10;685, 149168.
3. Aminzadeh A, Darijani MH, Bashiri H. Investigating the effect of myricetin against arsenic-induced cardiac toxicity in rats. Toxicol Res (Camb). 2023 Jan 31;12(1), 117-123.
4. Keshavarzi E, Aminzadeh A. Studying the Protective Effect of Ellagic Acid Against High Glucose-Associated Toxicity in H9C2 Cardiomyocytes. FABAD J Pharm Sci 2022; 47(2), 183-192.
5. Shafaghi A, Vakili Shahrababaki SS, Aminzadeh A, Heidari MR, Shamsi Meymandi M, Bashiri H. The effect of early handling on anxiety-like behaviors of rats exposed to valproic acid pre-and post-natally. Neurotoxicol Terato 2022;89, 107050.
6. Taheri Zadeh Z, Esmailpour K, Aminzadeh A, Heidari MR, Joushi S. Resveratrol Attenuates Learning, Memory, and Social Interaction Impairments in Rats Exposed to Arsenic. Biomed Res Int 2021;2021, 9993873.
7. Aminzadeh A, Salarinejad A. Effects of myricetin against cadmium-induced neurotoxicity in PC12 cells. Toxicol Res (Camb) 2021;10(1), 84-90.
8. Gazeri A and Aminzadeh A. Protective effects of deferoxamine on lead-induced cardiotoxicity in rats. Toxicol Ind Health 2020; 36(10), 800-806.
9. Aminzadeh A, Tekye Maroof N, Mehrabani M, Bahrapour Juybari K, Sharifi AM. Studying the impaired mechanisms of Oxidative stress, antioxidants, MAP kinase and mitochondrial apoptotic pathway in adipose derived mesenchymal stem cells (ADSCs) from STZ diabetic rats. Cell Journal (Yakhteh) 2020; 22 (1), 38-48.
10. Aminzadeh A, Bashiri H. Myricetin ameliorates high glucose-induced endothelial dysfunction in human umbilical vein endothelial cells. Cell Biochem Funct 2020; 38 (1), 12–20.
11. Juybari KB, Sepehri G, Meymandi MS, Vakili Shahrababaki SS, Moslemizadeh A, Saeedi N, Aminzadeh A, Nozari M, Khaksari M, Haghpanah T, Bashiri H. Sex dependent alterations of resveratrol on social behaviors and nociceptivereactivity in VPA-induced autistic-like model in rats. Neurotoxicol Teratol 2020; 81:106905.
12. Aminzadeh A, Salarinejad A. Citicoline protects against lead-induced oxidative injury in neuronal PC12 cells. Biochem Cell Biol 2019; 97 (6), 715-721.
13. Fallah F, Aminzadeh A. Neuroprotective effect of topiramate against 6-hydroxydopamine-induced cell death in Parkinson's disease cell model. Koomesh 2019; 21 (4), 702-707.
14. Aminzadeh A, Mehrzadi S. Cardioprotective effect of levosimendan against homocysteine-induced mitochondrial stress and apoptotic cell death in H9C2. Biochem Biophys Res Commun 2018; 507 (1–4), 395-399.

15. Haybar H, Goudarzi M, Mehrzadi S, **Aminzadeh A**, Khodayar MJ, Kalantar M, Fatemi I. Effect of gemfibrozil on cardiotoxicity induced by doxorubicin in male experimental rats. *Biomedicine & Pharmacotherapy* 2019; 109, 530-535.
16. Goudarzi M, Mombeini MA, Fatemi I, **Aminzadeh A**, Kalantari H, Nesari A, Najafzadehvarzi H, Mehrzadi S. Neuroprotective effects of Ellagic acid against acrylamide-induced neurotoxicity in rats. *Neurol Res* 2019; 41 (5), 419-428.
17. Sinaei N, Zare Mirakabadi A, Behnam B, **Aminzadeh A**, Karami-Mohajeri S. Potential Anticancer Activity of Caspian Cobra Venom Through Induction of Oxidative Stress in Glioblastoma Cell Line. *Proc Natl Acad Sci India Sect B Biol Sci* 2019; 89 (4), 1161-1166.
18. **Aminzadeh A**, Mehrzadi S. Melatonin attenuates homocysteine-induced injury in human umbilical vein endothelial cells. *Fundam Clin Pharmacol* 2018; 32 (3), 261-269.
19. **Aminzadeh A**. Protective effect of tropisetron on high glucose induced apoptosis and oxidative stress in PC12 cells: roles of JNK, P38 MAPKs, and mitochondria pathway. *Metab Brain Dis* 2017; 32 (3), 819-826.
20. **Aminzadeh A**, Sharifi AM. Tacrolimus toxicity in organ transplantation: an overview. *Arch Med Lab Sci* 2017; 3 (3), 31-36.
21. **Aminzadeh A**., The effect of allopurinol on high glucose- induced neurotoxicity in PC12 cells. *Scientific Journal of Kurdistan University of Medical Sciences* 2017; 22 (1), 1-10.
22. **Aminzadeh A**. Effect of metformin against hydrogen peroxide-induced apoptosis in human vascular endothelial cells. *Iran J Physiol Pharmacol* 2016; 2 (1), 43-50.
23. **Aminzadeh A**. Protective effects of melatonin against morphine induced neurotoxicity in PC12 cells. *Iran J Physiol Pharmacol* 2016; 2 (2), 105-112.
24. Mirzamohammadi S, Aali E, Najafi R, Kamarul T, Mehrabani M, **Aminzadeh A**, Sharifi AM. Effect of 17 β -estradiol on mediators involved in mesenchymal stromal cell trafficking in cell therapy of diabetes. *Cytotherapy* 2015; 17 (1), 46-57.
25. Haj-Mirzaian A, Amiri S, Kordjazy N, Rahimi-Balaei M, Haj-Mirzaian A, Marzban H, **Aminzadeh A**, Dehpour AR, Mehr SE. Blockade of NMDA receptors reverses the depressant, but not anxiogenic effect of adolescence social isolation in mice. *Eur J Pharmacol* 2015 5; 750, 160-166.
26. **Aminzadeh A**, Dehpour AR, Safa M, Mirzamohammadi S, Sharifi AM. Investigating the protective effect of lithium against high glucose-induced neurotoxicity in PC12 cells: involvements of ROS, JNK and P38 MAPKs, and apoptotic mitochondria pathway. *Cell Mol Neurobiol* 2014; 34 (8), 1143-1150.
27. Fard S.R.N, Khalili, M, **Aminzadeh A**. Prevalence of antibodies to *Neospora caninum* in cattle in Kerman province, South East Iran. *Veterinarski Arhiv* 2008; 78 (3), 253-259.

Teaching Experiences:

1. Pharmacology I
2. Pharmacology II
3. Pharmacology III
4. Pharmacology III (practical)
5. Biochemistry and Pharmacology
6. Pharmacology and Toxicology
7. Biology
8. Advanced Pharmacology (Ph.D.)
9. Advanced Pharmacology (practical)
10. Cellular and Molecular Toxicology (Ph.D.)
11. ...

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