

Date 7/2026

Surname: Assaei First name: Raheleh Date of birth: 7/11/1972

Nationality: Iranian Title: Assistant professor of physiology Marital status: Married, have 2 children

Educational Background:

B.Sc. in Midwifery, Faculty of Nursing and Midwifery, Shiraz University of Medical Sciences, Shiraz, IRAN, Sep1990- Aug 1994

M. Sc. In Human Physiology, School of Medical Sciences,Ahwaz University of Medical Sciences, Ahwaz, IRAN, Feb 1995- June 1998.

Ph.D. in Human Physiology, School of Medical Sciences, School of Medical Sciences,Ahwaz University of Medical Sciences, Ahwaz, IRAN,Sep1999-Aug 2004

Grade point average:

B. Sc.: 18.75 (out of 20) third-grade.

M. Sc.: 18.56 (out of 20) first-grade.

Ph.D:18.1 (out of 20) first-grade.

Thesis and dissertation:

I had done a research protocol on the effect of central administration of aluminum on learning and memory in rats at Ahwaz University of Medical Sciences (my M.Sc thesis). Also, I had done a research protocol on the effect of parental addiction on neurobiochemical(measuring neurotransmitter release) and electrophysiological(LTP recording) changes in their offspring in rats as my Ph.D. thesis

Research experience:

I have worked with ELISA and RIA for hormone measuring, Stereotaxic instruments, Y-maze, tail flick, water maze, Conditioned place preference(CPP), and preparing isolated cardiac, small intestinal, and aorta tissues and Microdialysis probe construction and LTP recording

I took part in a Workshop on Methods in Neuroscience (Shaheed Beheshti University, Tehran, IRAN March 1993).

Academic Duties:

1. A faculty member of the Physiology Dept of Lorestan,University of Medical Sciences.

Khoramabad, IRAN from 1999 until now.

2. Head of the Physiology Department of Lorestan, University of Medical Sciences. Khoramabad, IRAN 2004-2008.
3. Head of student research committee of Lorestan University of Medical Sciences from 2006-2008
4. Head of Razi research center of medical plants from 2007-2008
5. Member of research assembly of Lorestan University of Medical Sciences from 2004-2008

Teaching Experience:

I've taught physiology for 24 years in the field of, endocrinology, cell physiology, cardiovascular, neurophysiology, and gastrointestinal for Medical, Paramedical, dentistry, and Pharmacy students.

Congress presentation:

- 1-The effect of Viscum Album On basal contraction of small intestine in rat.
Asaee R, Zahedi Asl S, Alipour M. 13th Iranian congress of physiology and pharmacology, 13-16 Aug. 1997. Esphahan. Iran
- 2-The effect of central aluminum administration on active avoidance task responses in male rats. Asaee R, Sarkaki A, Zahedi Asl S. 14th Iranian congress of physiology and pharmacology, 6-9 Apr. 1999. Tehran. Iran
- 3- The effect of oral aluminium administration on pain tolerance in rat.
Pajouhi N, Asaee R, Sarkaki A, Zahedi Asl S.
15th Iranian Congress of Physiology and Pharmacology, 7-11 Nov 2001. Shiraz. Iran
- 4- The effect of high vitamin C intake in rat aorta contractility induced by KCl and phenylephrine. N. Pajouhi, S. Zahedi Asl M. Badavi, R. Assaei. 16th Iranian Congress of Physiology and Pharmacology, 8-12 May 2003. Tehran, Iran.
- 6- The effect of high vitamin C intake on collagen and elastin in rat aorta. Pajouhi N. Taheri M, Zahedi Asl S, Assaei R. 16th Iranian congress of physiology and pharmacology, 8-12 May 2003. Tehran. Iran
- 7- paternal morphine addiction reduced LTP induction in perforant path to dentate gyrus of the hippocampus in rat offspring. Assaei R, Sarkaki A, Pajouhi N, Motamedi F, Badavi M.
17th Iranian Congress of physiology and pharmacology 1-4 October 2005. Kerman, Iran
- 8- The effect of parental morphine addiction on the reproduction rate and pituitary-gonadal axis hormone profile of their adult offspring in rats. Assaei R, Pajouhi N, Shirkhani Y, Tarrahi M, Zahedi Asl S. 18th Iranian Congress of physiology and pharmacology 1-4 October 2007. Mashhad.

Iran.

- 9- Antispasmodic effects of *Satureja khuzestanica* essential oil. Pajouhi N, Assaei R
18th Iranian congress of physiology and pharmacology 26-30 Aug 2007. Mashhad. Iran.
- 10- The effect of oral aluminum administration on the basal rhythm of the small intestine in the rat.
Pajouhi N, Asaei R, Zahedi Asl S. 2th Iranian congress of nutrition 4-8 feb 2002 Ahwaz, Iran.
- 11- The effect of parental morphine addiction on extracellular glutamate concentration of dentate gyrus
in rat offspring. Asaei R, Sarkaki A, Pajouhi N, Badavi M. 2^{ed} congress, 7-9 Mar, Tehran, Iran.
- 12 - The effect of oral aluminum administration on erythrocyte fragility in rats. Asaei R, Pajouhi N,
Zahedi Asl S. 5th FAOPS congress 23-26 sep. 2002 Kuala Lumpur, Malaysia.
- 13- The effect of *Satureja Khuzestanica* essential oil in preventing convulsion induced by nicotine in
mice. Asaei R, Pajouhi N, Bashiri M. 3th neuropsychology of Iran. 23-24 may, 2007
- 14- paternal morphine addiction reduced LTP induction in the perforant path to dentate gyrus of
hippocampus in rat offspring. Asaei R, Sarkaki A, Pajouhi N, Motamedi F, Badavi M. 4th Congress
of psychopharmacology 25-25 Apr, 2007
- 15- The effect of parental morphine addiction on extracellular glutamate concentration of dentate gyrus
in rat offspring. Asaei R, Sarkaki A, Pajouhi N, Badavi M. 2^{ed} FAONS congress, May 16-19 2004,
Tehran, Iran.
- 16- Alleviation of liver lipid peroxidation and glutathione redox status in the experimental
hyperthyroid rat by *Satureja khuzestanica* essential oil and vitamin E . Assaei R, Zal F,
Dabbaghmanesh MH, Geramizadeh B, Ranjbar GH, Omrani¹, Pajouhi N. In: 5th International
Congress of Biochemistry and Molecular Biology, 16-19 April 2013

Published articles

- 1- The effect of long-term vitamin C intake on concentration induced by KCl and phenylephrine on
isolated rat aorta. Pajouhi N, Zahedi Asl S, Assaei R. Journal of medical university of
Zanjan, 2003; 44: 1-5. (in Persian)
- 2- The effect of parental morphine addiction on extracellular glutamate concentration of dentate gyrus
in rat offspring. Assaei R, Badavi M, Pajouhi N. Yafteh, 2003; (18): 25-32. (in Persian)
- 3- The Effect of Parental Morphine Addiction on Rat's Reproduction Rate and Pituitary – Gonadal
Axis Hormone Profile of Their Adult Offspring. Assaei R; Pajouhi N; Shirkhani Y; Tarrahi M,
Zahedi Asl S. Iranian journal of Endocrine and metabolism. 2009, 10(1): 51-8. (in Persian)

- 4-Prevalence of **delirium in** hospitalized internal medicine and surgical adult patients in Shohadaye Ashayer Hospital of Khoramabad. Assaei R, Nazari H, Hoseini S.yafteh, 2008;10(37):21-27.(in Persian)
- 5-**Epidemiologic study** of organophosphate and organochloride pesticide poisoning in hospitalized patients in Khoramabad Shohadaye Asahayer hospital from Mars to august 2006 .Mahmoodi GH, Assaei R.yafteh, 2008;10(1):3-10.(in Persian)
- 6-**Internal Evaluation** of the Physiology Department of Lorestan University of Medical Sciences Afshin Nazari , Mehrnoush Moghaddisi , Asadollah Tavakoli , Naser Pajouhi , Mojtaba Khaksarian , Raheleh Assaie , Rezvan Batebi , Ali Sheikhan ,Masoumeh Nazari .Yafteh ,2016;18 (2):76-83..(in Persian)
- 7-Effect of parental morphine addiction on hippocampal long-term potentiation (LTP) in rat's offspring. Sarkaki A, Assaei R, Motamedi F, Badavi M, Pajouhi N. Beh Brain Res, 2008;186: 72–77.
- 8- Effect of intra hippocampal injection of aluminum on active avoidance learning in adult male rats. Sarkaki A; Zahedi ASL S; Assaei R. PJBS, 2009; 12(1):40-45.
- 9-Effect of *Satureja khuzestanica* Essential oil on nicotine-induced seizure in male mice. Assaei R, Bashiri M, Pajouhi N, Yafteh 2012;1(2):23-29(in Persian)
- 10-Pituitary –gonadal Axis Hormone and Semen Analysis in Narcotic Dependency. Assaei R, Nazari H , Pajouhi N, Zahedi Asl S. ZJRMS 2013; 15(4):53-55 .
- 11- Hepatoprotective effect of *Satureja khuzestanica* essential oil and vitamin E in experimental hyperthyroid rats: evidence for the role of antioxidant effect. Assaei R, Zal F, Mostafavi-Pour Z, Dabbaghmanesh MH, Geramizadeh B, Ranjbar Omrani GH, Pajouhi N.IJMS,2014; 39(5):459-466.
- 12- *Satureja khuzestanica* essential oil used in the treatment of diarrhea: modes of action on intestinal function in an animal model. Assaei R, Pajouhi N, Ghobadi AT, Gharib Naseri accepted in European Journal of Scientific Research.
- 13- Optimization of RNA Extraction from rat pancreatic tissue. Dastgheib S, Irajie C, Assaei R, Koohpeima F, Mokarram P. May 2014; 39(3):282-288.
- 14- Effect of Galega officinalis leaf powder and Trigonella foenum-graecum seed powder on blood glucose levels and weight gain in a diabetes mellitus rat model Seyedeh Sahar Shojaee, Akbar Vahdati, Assaei R, Sepehrimanesh M . Comp Clin Pathol.21 Sep 2013, 1873-7.
- 15- Effects of Essential Oil of *Satureja khuzestanica* on the Oxidative Stress in Experimental Induced

- Hyperthyroidism in Male Rat. Assaei R, Mostafavi-Pour Z, Pajouhi N, Ranjbar Omrani GH, Sepehrimanesh M, Zal F. Veterinary Research Forum. 2015; 6 (3) 233 – 238.
- 16-Hypoglycemic Effect of Aquatic Extract of Stevia in Pancreas of Diabetic Rats: PPAR γ -dependent Regulation or Antioxidant Potential. Assaei R, Mokarram P, Dastghaib S, Darbandi S, Darbandi M, Zal F, Akmal M, Ranjbar Omrani GH. Avicenna J Med Biotechnol. 2016 Apr-Jun;8(2):65-74.
- 17-The effect of aloe vera on the expression of wound healing factors (TGF β 1 and bFGF) in mouse embryonic fibroblast cell: In vitro study. Hormozi M, Assaei R, Boroujeni MB. Biomed Pharmacother. 2017 Apr; 88:610-616. doi: 10.1016/j.biopha.2017.01.095. Epub 2017 Feb 24.
- 18-The effects of two-stage carotid occlusion on spatial memory and pro-inflammatory markers in the hippocampus of rats. Moghaddasi M¹, Taati M², Asadian P³, Khalatbary AR⁴, Assaei R⁵, Pajouhi N. J Physiol Sci. 2017 May;67(3):415-423.
- 19-Use of *Satureja khuzestanica* Essential Oil (SKEO) in the Treatment of Diarrhea: Modes of Action on Intestinal Function in Animal Model. Raheleh Assaei, Naser Pajouhi. Herbal Medicines Journal. 2018; 3(3):101-8.
- 20-Pretreatment administration of hydro-ethanolic extract of *Syzygium aromaticum* prevents thioacetamide-induced liver injury in rat. Pajouhi A, Pajouhi N, Karimi Rouzbahani A, and Assaei. Egyptian Liver Journal, 2024 14:90. <https://doi.org/10.1186/s43066-024-00400-0>.
- 21-The Effect of the Emulsion of Echinophora cinerea Boiss. On Paraquat-Induced Lung Fibrosis in Male Rats. N Pajouhi, A Heydari Ariya, M Rashidipour, H Jamshidvand, A Pajouhi, Journal of Food Biochemistry, 2025 (1), 8342085. <https://doi.org/10.1155/jfbc/8342085>
- 22-Protective Effects of Vanillic Acid Against Isoprenaline-Induced Heart Failure in Wistar Rats: A biochemical and histological investigation. khaksarian M , Pajouhi N, Nazari A, Assaei R, Souri F. ARYA 2026 , 22;4: 10.48305/ARYA. 2026.45520.3085.

Projects

- Investigating the effect of hydroalcoholic extract of (*Syzygium aromaticum*) on oxidative stress indices and serum cytokines in thioacetamide-induced hepatotoxicity in male rats.
- Effects of Stevia Rebaudiana Bertoni on Bone Marrow Density and Bone Turn over Factors in Diabetes Induced Mice

Last thesis:

- 1-The effect of Thyroid hormones status on ovarian kisspeptin system in female rats. MSc thesis of laleh Jafari as a first Supervisor
- 2-The effect of Thyroid hormones status on uterine kisspeptin system in female rats. MSc thesis of Naser Rahimi as a first Supervisor
- 3- The effect of thyroid hormones on redox status of fibrotic lung in mice MSc thesis of parvin hajipour as a second Supervisor
- 4-Evaluation of EC-SOD Amount and Activity in the Lung of Hyperthyroid Rats. MD thesis of Behnam godarzi as a second Supervisor
- 5-Evaluation of EC-SOD Amount and Activity in the Lung of Hypothyroid Rats MD thesis of Reza yarizadeh as a first Supervisor
- 6- Determination of effect of emulsion containing Boiss Echinophora cinerea Essence on paraquat-induced toxicity in male rat liver . MSc thesis of hadis Jamshidvand as a first Supervisor
- 7- The effect of the emulsion of Echinophora cinerea Boiss on paraquat-induced lung injury in male rats, MSc thesis of Arash Heydari Rad as a second Supervisor

