

CURRICULUM VITAE (CV)

ELHAM HAKIMIZADEH

ADDRESS:

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PhD by Research of physiology, Physiology
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Personal information:

Last Name	HAKIMIZADEH
First Name	ELHAM
Citizenship	IRANIAN
Place of birth	RAFSANJAN - IRAN

Education (Academic Training):

2002 - 2006	B.Sc. Biology, Shahid Bahonar University, Kerman, Iran.
2007 – 2010	M.Sc. Physiology, Department of Biology, Science and Research Branch, Islamic Azad University, Tehran, Iran.
2012-2017	PhD by Research of physiology, Physiology-Pharmacology Research Center, Rafsanjan University of Medical Sciences, Rafsanjan, Iran.

Ph.D Thesis

Effect of agonist (Capsaicin) and antagonist (AMG9810) TRPV1 receptor on stroke outcome and gene expression of TRPV1, Toll-like receptor2 and 4 in the permanent middle cerebral artery occlusion in male rat

Work experience & Skills:

- Cerebral Ischemia
- Brain Cannulation and stereotax techniques
- Behavioral studies: Elevated plus Maze, Shuttle-box, Ledge beam walking, Tail flick, Hanging test, Sticky test, Locomotor activity, Morris Water Maze, Y-Maze, Novel Object Recognition Test (NORT)
- RT-PCR
- ELISA

Teaching experience:

Teaching Physiology for the students of biology

Membership:

Iranian society of Physiology and pharmacology

Research projects participation:

- Effect of troxerutin on focal ischemic brain injury in mice
- The effects of calcium dobesilate on some aging related parameters in male mice
- The effects of ceftriaxone on some aging related parameters in D-galactose induced in male mice
- Effect of Sumatriptan against cisplatin-induced nephrotoxicity in rat

-A study on the pretreatment effect of metformin on cognitive impairment induced by ischemia/reperfusion (IR) injury in male

-A study on the effect of metformin on cognitive impairment induced by ischemia/reperfusion (IR) injury in male

-A study on the effect of Q10 on cognitive impairment induced by Ischemia/reperfusion (IR) injury in male rats

-Effect of truxerutin against cisplatin-induced nephrotoxicity in mice

-The effects of ceftriaxone on some aging related parameters in D-galactose induced in male mice

-Effect of calcium dobesilate against cisplatin-induced nephrotoxicity in mice

-The effect of oleuropine on hemodynamic, functional and renal tissue parameters following unilateral ureteral obstruction in male Wistar rats: with emphasis on the role of oxidative stress and inflammation

-Effects of 2.4 GHz electromagnetic signals (emitted from local wifi apparatus) on cross modal object recognition test and expression of muscarinic and GABAergic receptors in hippocampus of rats

- The survey of Metformin effects on tactile learning, anxiety-like behavior and Brain Derived Neurotrophic Factor (BDNF) in ovariectomized mice

- The effect of metformin on aging related changes in ovariectomized mice

- The effect of single dose of opium consumption on muscle and central fatigue in male rat

- Study the effect of intraventricular (ICV) injection TRPV1 receptors antagonist on the process of binding (integration of different sensory information) in male rat

-The effects of MAG pathway inhibition on stroke outcome and its interaction with cannabinoid system in mice pMCAo model

- The survey of Ascorbic acid Effects on tactile learning, working memory, anxiety-like behavior and Brain Derived Neurotrophic Factor (BDNF) in ovariectomized mice
- The survey of troxerutin administration effect on muscle fatigue, oxidative stress and expression of bcl-2 and Bax in male rats
- Effect of agonist (Capsaicin) and antagonist (AMG9810) TRPV1 receptor on stroke outcome and gene expression of TRPV1 and Toll-like receptor 2 and 4 in the permanent middle cerebral artery occlusion in male rat
- The survey of troxerutin effect on muscle fatigue and matrix metalloproteinase-9 activity in male
- The survey of naringin effect on muscle fatigue in male rats
- Survey of cardiovascular system in the Holy Qura'n
- Examination of Herbal drug and fruit in the Holy Qura'n
- Genetics from the perspective of the Qur'an
- Effect of hydro-alcoholic extract of Teucrium Polium, Descurainia Sophia and Artemisia aucheri on morphine withdrawal induced diarrhea
- Effect of the hydroalcoholic extract of chicory by mothers on male neonatal bilirubin mice
- Evaluation the role of TRPV1 receptors of the ventral hippocampus in learning and spatial memory of the male rats
- Effect of postconditioning on late therapy of cerebral ischemia with recombinant tissue plasminogen activator (r-tPA) in the ovariectomized(OVZ)female rat in model of embolic stroke

- The effect of acute and chronic swim stress on orexin receptor expression in brain stem in Wistar male rats
- Interaction between dopaminergic and opioidergic systems at the level of dorsal hippocampus in orofacial pain modulation in rats
- The effect of exercise preconditioning on neuronal function (behavioural indices and inflammation) following induction of transient global cerebral ischemia in rats
- The study of Epigallocatechin gallate (EGCG) effect on cognitive deficits, apoptosis, inflammation, brain derived nerve factor (BDNF) and some antioxidant factor levels in hippocampus of morphine treated rats
- Preparation of Pistachio topical dosage forms for burn wound healing in rat model
- The effects of metformin on some age-related factors in middle aged male rats under chronic stress situation
- The effect of single dose of Morphine on muscle fatigue in rat
- Effect of Metformin on some consequences of the natural aging process over a period of a year in ovariectomized female rat
- Effect of exercise on therapy of cerebral ischemia in the ovariectomized female mouse in the permanent model of stroke in mouse
- Effect of alcoholic extract of propolis of Khurasan Razavi and Kerman provinces in focal ischemic brain injury in mice
- Study the effects of Achillea millefolium aqueous extract in a Parkinsons disease model induced by intra-cerebral-ventricular injection of 6 - hydroxydopamine in male rats
- Effect of hypothermia on late therapy of cerebral ischemia with recombinant tissue plasminogen activator (r-tPA) in the male rat in model of embolic stroke

- Survey effect of postconditioning on inflammatory cytokines produce in model of embolic stroke in male rats
- Evaluation of the expression levels of the TRPV1 and TRPV2 molecules in active chronic HBV infected patients immune cells in comparison to healthy controls in Rafsanjan city during 2012 to 2013
- Role of TRPV1 receptor on 6-OHDA induced Parkinsonism in rat
- Effect of the aqueous extract of Achillea millefolium on tactile learning in male mice

Full Text Publications:

Hakimizadeh, E., Kazemi Arababadi, M., Hassanshahi, G., Nasiri Ahmadabadi, B., Hakimi, H., Rezaeian, M., ... & Kennedy, D. (2012). Association of -592 region of IL-10 polymorphisms with asthma in south-eastern Iranian patients. *Clinical laboratory*, 58(3), 267.

Hakimizadeh, E., Oryan, S.H., Hajizadeh moghaddam, A., Shamsizadeh, A., Roohbakhsh, A., (2012). Endocannabinoid system and TRPV1 receptors in the dorsal hippocampus of the rats modulate anxiety-like behaviors. *Iranian journal of basic medical sciences*, 15(3), 795.

Taghavi Rafsanjani, A., Haghparast, A., Shamsizadeh, A., Haeri Rohani, A., Roohbakhsh, A., **Hakimizadeh, E.**, Amin, F., Allahtavakoli, M. (2012). The effect of nicotine administration on physical and psychological signs of withdrawal syndrome induced by single or frequent doses of morphine in rats. *Basic and Clinical Neuroscience*, 49-57.

Radman, M., Hassanshahi, G., Vazirinejad, R., Arababadi, M. K., Karimabad, M. N., Khorramdelazad, H., ... & Ahmadi, Z. (2013). Serum levels of the CC chemokines CCL2, CCL5, and CCL11 in food allergic children with different clinical manifestations. *Inflammation*, 36(3), 561-566.

Karimabad, M. N., Arababadi, M. K., **Hakimizadeh, E.**, Daredori, H. Y., Nazari, M., Hassanshahi, G., & Kennedy, D. (2013). Is the IL-10 promoter polymorphism at position-592 associated with immune system-related diseases?. *Inflammation*, 36(1), 35-41.

Khorramdelazad, H., **Hakimizadeh, E.**, Hassanshahi, G., Rezayati, M., Sendi, H., & Arababadi, M. K. (2013). CCR5 Δ 32 mutation is not prevalent in Iranians with chronic HBV infection. *Journal of medical virology*, 85(6), 964-968.

Jamali, Z., Nazari, M., Khoramdelazad, H., **Hakimizadeh, E.**, Mahmoodi, M., Karimabad, M. N., ... & Poor, N. M. (2013). Expression of CC chemokines CCL2, CCL5, and CCL11 is associated with duration of disease and complications in type-1 diabetes: a study on Iranian diabetic patients. *Clin Lab*, 59(9-10), 993-1001.

Jamali, Z., Nazari, M., Khoramdelazad, H., **Hakimizadeh, E.**, Mahmoodi, M., Karimabad, M. N., ... & Poor, N. M. (2013). Expression of CC chemokines CCL2, CCL5, and CCL11 is associated with duration of disease and complications in type-1 diabetes: a study on Iranian diabetic patients. *Clin Lab*, 59(9-10), 993-1001.

Hakimizadeh, E., Shamsizadeh, A., Nazari, M. A. H. M. O. O. D., Arababadi, M. K., Rezaeian, M., Vazirinejad, R. E. Z. A., ... & Hassanshahi, G. (2013). Increased circulating levels of CXC chemokines is correlated with duration and complications of the disease in type-1 diabetes: a study on Iranian diabetic patients. *Clin Lab*, 59(5-6), 531-7.

Hakimizadeh, E., Arababadi, M. K., Shamsizadeh, A., Allahtavakoli, M., Rezvani, M. E., & Roohbakhsh, A. (2014). Morphine Reduces Expression of TRPV1 Receptors in the Amygdala but not in the Hippocampus of Male Rats. *Iranian journal of medical sciences*, 39(3), 261.

Ostadebrahimi, H. A. M. I. D., Jamali, Z., Nazari, M., Bahri, M. I. N. A., Farahmandnia, Z. A. H. R. A., Khandany, B. K., ... & Rezaeian, M. (2014). CXC chemokines CXCL1, CXCL9, CXCL10 and CXCL12 are variably expressed in patients with sickle cell disease and carriers: are they predictive tools for disease complications. *Clin Lab*, 60(1), 99-104.

EsmaeiliNadimi, A., Hasani, M., Allahtavakoli, M., **Hakimizadeh, E.**, & Bakhshi, H. (2014). A two-year survey on the effect of temperature changes on the incidence of myocardial infarction in patients referred to the Ali-ibn Abi Talib Hospital, Rafsanjan, Iran, in 2013-2014. *Journal of Occupational Health and Epidemiology*, 3(3), 160-165.

Hakimizadeh, E., Arababadi, M. K., Shamsizadeh, A., Roohbakhsh, A., & Allahtavakoli, M. (2016). The possible role of toll-like receptor 4 in the pathology of stroke. *Neuroimmunomodulation*, 23(3), 131-136.

Fatehi, F., Fatemi, I., Shamsizadeh, A., **Hakimizadeh, E.**, Bazmandegan, G., Khajehasani, F., & Rahmani, M. (2017). The effect of hydroalcoholic extract of *Pistacia vera* on pentylentetrazole-induced kindling in rat. *Res J Pharmacogn*, 4(4), 45-51.

Naderi, S., Alimohammadi, R., **Hakimizadeh, E.**, Roohbakhsh, A., Shamsizadeh, A., & Allahtavakoli, M. (2017). The effect of exercise preconditioning on stroke outcome in

ovariectomized mice with permanent middle cerebral artery occlusion. *Canadian journal of physiology and pharmacology*, 96(3), 287-294.

Hakimizadeh, E., Shamsizadeh, A., Roohbakhsh, A., Arababadi, M. K., Hajizadeh, M. R., Shariati, M., ... & Allahtavakoli, M. (2017). TRPV1 receptor-mediated expression of Toll-like receptors 2 and 4 following permanent middle cerebral artery occlusion in rats. *Iranian journal of basic medical sciences*, 20(8), 863.

Hakimizadeh, E., Shamsizadeh, A., Roohbakhsh, A., Arababadi, M. K., Hajizadeh, M. R., Shariati, M., ... & Allahtavakoli, M. (2017). Inhibition of transient receptor potential vanilloid-1 confers neuroprotection, reduces tumor necrosis factor-alpha, and increases IL-10 in a rat stroke model. *Fundamental & clinical pharmacology*, 31(4), 420-428.

Bazmandegan, G., Boroushaki, M. T., Shamsizadeh, A., Ayoobi, F., **Hakimizadeh, E.**, & Allahtavakoli, M. (2017). Brown propolis attenuates cerebral ischemia-induced oxidative damage via affecting antioxidant enzyme system in mice. *Biomedicine & Pharmacotherapy*, 85, 503-510.

Fatemi, I., Heydari, S., Kaeidi, A., Shamsizadeh, A., **Hakimizadeh, E.**, Khaluoi, A., & Allahtavakoli, M. (2018). Metformin ameliorates the age-related changes of d-galactose administration in ovariectomized mice. *Fundamental & clinical pharmacology*, 32(4), 392-399.

Dehnamaki, F., Karimi, A., Pilevarian, A. A., Fatemi, I., **Hakimizadeh, E.**, Kaeidi, A., ... & Bazmandegan, G. (2019). Treatment with troxerutin protects against cisplatin-induced kidney injury in mice. *Acta Chirurgica Belgica*, 119(1), 31-37.

Rahmani, M. R., Shamsizadeh, A., **Hakimizadeh, E.**, & Allahtavakoli, M. (2018). Monoacylglycerol Lipase Inhibitor is Safe when Combined with Delayed r-tPA Administration in Treatment of Stroke. *Inflammation*, 41(6), 2052-2059.

Pak-Hashemi, M., Hassanipour, M., Mohammadinasab, M., Kaeidi, A., Shamsizadeh, A., **Hakimizadeh, E.**, ... & Fatemi, I. (2018). Study the effects of Pistacia vera seed (pistachio) oil on working memory and spatial learning and memory. *Pistachio and Health Journal*, 1(3), 1-7.

Najafi, N., Hosseini, H., Hatami, M., Vakili, M., Shishebor, F., Zamanian, M., **Hakimizadeh, E.** (2018). Effect of adding Ketamine to morphine in patient controlled analgesia of patients addicted to opioid with post orthopedic operation pain. *Journal of Shahid Sadoughi University of Medical Sciences*, 258-265. (Persian)

Zamanian, M., Hajizadeh, M. R., Shamsizadeh, A., **Hakimizadeh, E.**, & Tavakoli, M. (2016). Effect of troxerutin on serum glucose level and lactate dehydrogenase activity after exhaustive swimming in male rats. *Journal of Shahrekord Uuniversity of Medical Sciences*, 18(5), 1-7. (Persian)

Aminian, F., Shamsizadeh, A., Ayoobi, F., Rezazadeh, H., **Hakimizadeh, E.**, Mashayekhimazar, J., ... & Allahtavakoli, M. (2015). Effect of hydro-alcoholic extract of *Teucrium polium*, *Descurainia sophia* and *Artemisia aucheri* on naloxone-precipitated morphine withdrawal in male rat. *Journal of Shahrekord Uuniversity of Medical Sciences*, 17(3), 84-92. (Persian)

Rezazadeh, H., Kahnouei, H., Fatemi, I., Shamsizadeh, A., **Hakimizadeh, E.**, & Allahtavakoli, M. (2014). The Effect of Mechanical Control of Brain Blood Flow on the Embolic Model of Stroke after Delayed Tissue Plasminogen Activator Therapy. *Journal of Babol University of Medical Sciences*, 16(6), 43-49. (Persian)

Hakimizadeh, E., Shamsizadeh, A., Vazirinejad, R., Kazemi Arababadi, M., Rezazadeh, H., Mobini, M., ... & Allahtavakoli, M. (2014). Investigate the effect of TRPV1 receptor antagonist (AMG9810) on stroke outcome in the permanent middle cerebral artery occlusion in male rat. *Physiology and Pharmacology*, 18(1), 27-35. (Persian)

Hakimizadeh, E., Baniasadi Pour, H., Rezazadeh, H., Ansari Jaber, A., Mashayekhi, N., Ismaili, M., ... & Zare, L. (2014). Survey on the Protective Effect of Total Hydro-alcoholic Extract of *Artemisia Aucheri* on Mercuric Chloride-induced Nephrotoxicity in Male Mice. *IJFM*, 19(2), 251-256. (Persian)

Hakimizadeh, E., Baniasadi Pour, H., Rezazadeh, H., Ansari Jaber, A., Mashayekhi, N., Ismaili, M., ... & Zare, L. (2014). Survey on the Protective Effect of Total Hydro-alcoholic Extract of *Artemisia Aucheri* on Mercuric Chloride-induced Nephrotoxicity in Male Mice. *IJFM*, 19(2), 251-256. (Persian)

Hakimizadeh, E., Askary, A., Shamsizadeh, A., Rahmani, M., Vazirinejad, R., Ayoobi, F., ... & Allahtavakoli, M. (2013). Effect of hydro-alcoholic extract of *Artemisia aucheri* on castor oil-induced diarrhea in male rat. *Journal of Shahrekord Uuniversity of Medical Sciences*, 15(3), 1-8. (Persian)

Hassanshahi, J., Hassanshahi, G. H., Zamani, M., **Hakimizadeh, E.**, & Soleimani, M. (2012). Comparing the therapeutic effects of vitamin C and CoQ10 in reducing the number of damaged cells in mice hippocampus following ischemia-reperfusion. *J Mazandaran Univ Med*, 22, 2-13. (Persian)

Honari, N., Pourabolli, I., **Hakimizadeh, E.**, Roohbakhsh, A., Shamsizadeh, A., Vazirinejad, R., ... & ALLAHTAVAKOLI, M. (2012). Effect of vitex agnus castus extraction on anxiety-like behaviors in ovariectomized rats. JOURNAL OF BABOL UNIVERSITY OF MEDICAL SCIENCES (JBUMS), 5(68), 29-35. **(Persian)**