

Curriculum vitae
Khalil Pourkhalili



Personal Information

Name: Khalil

Family name: Pourkhalili

Date of birth: August 12, 1975

Place of birth: Tonekabon, Iran

Marital status: Married

Address: Department of Physiology, School of Medicine, Bushehr University of Medical Sciences Bushehr, Iran.

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Education:

- 2003- 2008 PhD in Medical Physiology, Tarbiat Modarres University, Tehran, Iran.
Title of thesis: Investigation on the effects of normobaric hyperoxia pretreatment on ischemia-reperfusion injury in normal and acute diabetic isolated rat heart.
- 2000-2003 M.Sc. in Medical Physiology, Shiraz University of Medical Sciences, Shiraz, Iran.
Title of Thesis: Effects of vanadyl sulfate on reproductive efficiency of normal and streptozotocin-induced diabetic adult male rats.
- 1993-1997 B.Sc. in Nursing at Mashhad University of Medical Sciences, Mashhad, Iran

Research Interest:

Heart physiology: ischemia-reperfusion injury and heart preconditioning in isolated and in vivo heart models

Technical abilities:

- Working with isolated (Langendorff perfusion) and in vivo rat and rabbit hearts
- Induction of global and local ischemia in rat and rabbit hearts
- Assessment of ventricular function during ischemia and reperfusion
- Assessment of ventricular arrhythmias during ischemia and reperfusion
- Assessment of ventricular infarct size after ischemia and reperfusion by TTC staining
- Assessment of cardiac myocyte apoptosis by TUNEL method

Experiences:

Lecturer in medical physiology especially cardiovascular physiology for students of medicine in Bushehr University of Medical Sciences from 2004.

Participation in:

- 2003 The 16th Iranian Congress of physiology and Pharmacology. Tehran, Iran.
- 2004 The 2nd FAONS symposium and 3rd Iranian Neuroscience Congress. Tehran, Iran.
- 2005 The 1st international symposium on molecular technology. Tehran, Iran.
- 2006 Workshop on "Application of Recombinant Technology in Medicine" Tehran, Iran.
- 2007 The 18th Iranian Congress of Physiology and Pharmacology, Mashhad, Iran.
- 2007 The 1st advanced Iranian workshop of heart electrophysiology and animal ischemic heart models, Gorgan, Iran.
- 2008 The Baltic Summer School (Basic and clinical aspects of cardiac arrhythmia's). 17Aug- 6 Dec, University of Copenhagen, Denmark.
- 2009 Workshop on "Molecular neuroscience methods". 7-8 Nov. 2009. Physiology Department, Tarbiat Modares University, Tehran, Iran.
- 2009 The 19th Iranian Congress of Physiology and Pharmacology, Tehran, Iran.

Accepted abstracts:

1st South Asian Conference of Physiological Societies & 11th Biennial Conference of Pakistan Physiological Society, 10 – 12 Nov, 2008. In vivo hyperoxic preconditioning reduces reperfusion arrhythmias in the isolated rat hearts.

36th international congress of physiological sciences, 27 Jul- 1 Aug 2009, Kyoto, Japan. Ischemia and reperfusion induced arrhythmias: role of hyperoxic preconditioning.

19th congress of physiology and pharmacology, 3-6 November 2009, Shaeed Beheshti University of Medical Sciences, Tehran, Iran. Ischemia and reperfusion induced arrhythmias: role of normobaric hyperoxic preconditioning.

20th congress of physiology and pharmacology, 10-14th October 2011, Hamedan University of Medical Sciences, hamedan, Iran. Anabolic androgenic steroid nandrolone decanoate could not impair cardioprotective effects of ischemic preconditioning in isolated rats heart.

Membership:

Iranian Society of Physiology and Pharmacology

Publications:

Pourkhalili K, Hajizadeh S, Tiraihi T, Akbari Z, Esmailidehaj M, Bigdeli MR, Khoshbaten A. Ischemia and reperfusion-induced arrhythmias: role of hyperoxic preconditioning. *J Cardiovasc Med*. 2009 Aug 10(8):635-42.

Esmaili M.D. Baharvand B. Rasoulilian B. Foadaddini M. Asgari A. Noroozadeh A. **Pourkhalili K**. Wahhab Aghai H. Khoshbaten A. Delayed protective effects of hyperoxia against cardiac arrhythmias and infarction in anesthetized rats. *J Surg Res*. 2009 Jan 151(1): 55-61.

Baharvand B, Esmaili Dehaj M, Foadaddini M, Rasoulilian B, Pourkhalili K, Wahhab Aghai H, Khoshbaten A. Delayed Cardioprotective Effects of Hyperoxia Preconditioning Prolonged by Intermittent Exposure. *J Surg Res*. 2010 May 1;160(1):53-9.

Bigdeli MR, Hajizadeh S, Froozandeh M, Heidarianpour A, Rasoulilian B, Asgari AR, **Pourkhalili K**, Khoshbaten A. Normobaric hyperoxia induces ischemic tolerance and upregulation of glutamate transporters in the rat brain and serum TNF-alpha level. *Exp Neurol*. 2008 Aug; 212(2): 298-306.

Pourkhalili K, Hajizadeh S, Khoshbaten A, Tiraihi T. Evaluation of the effects of normobaric hyperoxia pretreatment on ischemia-reperfusion injury in a regional ischemia model using isolated rat heart. *Physiol Pharmacol*. 2008 12 (2), 91 – 100. (Article in Persian).

Pourkhalili K, Hajizadeh S, Khoshbaten A, Tiraihi T, Esmaeeli Dahaj M, Bigdeli M.R. Role of hyperoxic preconditioning in protection of cardiac tissue and arrhythmias following ischemia-reperfusion injury. *Kowsar medical journal*. 2008 13(3), 211-222. (Article in Persian).

Heidarianpour A, Hajizadeh S, Khoshbaten A, Niaki AG, Bigdili MR, **Pourkhalili K**. Effects of chronic exercise on endothelial dysfunction and insulin signaling of cutaneous microvascular in streptozotocin-induced diabetic rats. *Eur J Cardiovasc Prev Rehabil*. 2007 Des; 14(6): 746-52.

Gholamreza Bayat, Sohrab Hajizadeh, Mohammad Javan, Fatemeh Safari, Mahdi Goodarzvand, Saeed Shokri, **Khalil Pourkhalili**, Firoozeh Alavian. The effect of exercise training and chronic administration of nandrolone decanoate on expression of sarcolemmal ATP- sensitive K⁺ channels in rat heart. *Feyz, Journal of Kashan University of Medical sciences*, 2012 May; 16(2): 102-111.

Samad Akbarzadeh, Parviz Bazzi, Adel Daneshi, Iraj Nabipour, **Khalil Pourkhalili**, Gholamhossein Mohebbi, Kohzad Sartavi, Mohammadreza Abdi, Mostafa Mirzaei and Afshar Bargahi. Anti-diabetic effect of *Otostegia persica* extract on diabetic rats. *Journal of Medicinal Plants Research*. 2012 April; 6(16): 3176-3180.

Mansour Esmailidehaj, Bahram Rasulian, Mohammad Ebrahim Rezvani, Bahram Delfan, Mohammad Hossein Mosaddeghmehrjardi, **Khalil Pourkhalili**. The anti-infarct, antistuning and antiarrhythmic effects of Oleuropein in isolated rat heart. *EXCLI Journal* 2012 April; 11:150-162.

Oxytocin protects cardiomyocytes from apoptosis induced by ischemia-reperfusion in rat heart: Role of mitochondrial ATP-dependent potassium channel and permeability transition pore. Ali Mohammad

Alizadeh , Mahdieh Faghihi, Vahid Khori, Hamid Sohanaki, **Khalil Pourkhalili**, Fahimeh Mohammadghasemi, Maryam Mohsenikia. *Peptides* 2012 March; 36: 71–77.

Khalil Pourkhalili, Sohrab Hajizadeh, Zahra Akbari, Mansour Esmaili Dehaj, Samad Akbarzadeh, Alimohammad Alizadeh. Hyperoxic preconditioning fails to confer additional protection against ischemia-reperfusion injury in acute diabetic rat heart. *EXCLI Journal* 2012 June;11:263-273.

Research projects

1- Effects of the nandrolone decanoate (an anabolic steroid drug) on ischemic preconditioning phenomena (IPC) in isolated rat heart (finished).

2- Investigation of the effects of remote ischemic preconditioning (RIPC) on maximal exercise performance and pulmonary function (In progress).

3- Effect of nandrolone decanoate on exercise induced analgesia and role of endogenous opioids. (In progress).