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Gila Behzadi, PhD

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Place of Birth: Iran

**Education:**

Bsc , Animal Biology, 1972, National University of IRAN.

Assistantship Biochemical Lab. Razi Institute – Hessarak 1973-75

French language training, Pharmacy Fac. Montpellier Univ., France 1975-76

Biochemical complementary courses, Bordeaux II Univ., France 1976-77

Msc, Behavioral Neurobiology, 1977-79, Fac. Med. INSERM, Bordeaux II Univ., France

PhD Neuroscience, 1979-82, CNRS, Paris XI Univ. , France.

Post-doctorate: 1982-83 -Neurophysiology lab. (CNRS), Gif/Sur/Yvette, Paris

1983-85 – Dept. Anatomy and Neurobiology, Medical School, Dalhousie Uni. Halifax, N.S, Canada

1986-89 –Neurophysiology Department, CNRS, Gif/Sur/Yvette, Paris

**Scholarships:**

French government scholarship 1975-1982

French Medical Research Foundation 1982-83

Canadian MRC grant, Dalhousie Univ., Med. School, Halifax, N.S, Canada

French Medical Research Center 1986-89

**1989-now:**

Professor, Physiology Dept., Faculty of Medicine, Shahid Beheshti Med Sci Univ.

**Supervisor:** 16 Msc and 12 PhD

**Advisor:**

International advisory committee member of APOCB since 1990

**Scientific society membership:**

International Brain Research Organization (IBRO)

British Neuroscience Association (BNA)

International Association of Study of Pain (IASP)

Asia Pacific Organization of Cellular Biology (APOCB)

**Research field:** Functional Neuroanatomy

Structural basis of: Developmental Neurobiology, Motor Behavior, Pain, Learning- Memory and Stress.

Experimental model of Neurodegenerative Diseases.

## **Publications:**

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Karamikheirabad M, **Behzadi G**, Faghihi M, Raoofian R, Ejtemaei Mehr S, Zuure WA, Sadeghipour HR. A role for endocannabinoids in acute stress-induced suppression of the hypothalamic-pituitary-gonadal axis in male rats. Clin Exp Reprod Med. 2013 Dec;40(4):100-62. doi: 10.5653/ceurm.2013.40.4.100. Epub 2013 Dec 31.

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  22. Ganji F., Behzadi G., A comparative neurotracing study on the masseter labeled motoneurons in young and aged rats. 2002. FENS Forum.
  23. Nasiri Nezhad F., Manaheji H., Behzadi G., Behavioral and histological study of sciatic nerve in neuropathic rats following spinal transplantation of chromaffin cells. 10TH IASP, 2002, USA.
  24. Behzadi G., Bonnet C., Cespuglio R., c-fos protein expression in the rat brain following 1h immobilization stress and subsequent paradoxical sleep rebound. 16th IBRO, 2003, Prague.
- Behzadi G. and Rohani MH  
 Congenital hypothyroidism alters formalin-induced pain response in neonatal rats.  
 19<sup>th</sup> BNA National Meeting, Vol.19, P48, Harrogate, UK, 2007
- Behzadi G. and Akbari Z.  
 NADPH-d activity in dorsal spinal neurons of congenital hypothyroid pups following formalin - pain induction.  
 12<sup>th</sup> IASP Congress, Edinburgh, UK, 2008
- Behzadi G, Akbari Z and Rohani MH  
 p-ERK and c-FOS expression in dorsal spinal neurons of maternal hypothyroid weaned pups following formalin-induced pain.  
 20<sup>th</sup> 19<sup>th</sup> BNA National Meeting, Vol.20, P15, Liverpool, UK, 2009
- Behzadi G., Akbari Z. and Rohani MH  
 Spinal neuronal contribution to nociceptive behavioral expression in hypothyroid weaned pups.  
 13<sup>th</sup> IASP Congress, Montreal, CANADA, 2006

**[Autoradiographic and electrophysiological evidence for excitatory amino acid transmission in the periaqueductal gray projection to nucleus raphe magnus in the rat](#)**

L Wiklund, [G Behzadi](#), P Kalén, PM Headley... - Neuroscience ..., 1998 - Elsevier

Abstract Selective retrograde labelling was used as an autoradiographic method to identify possible excitatory amino acid afferents to nucleus raphe magnus (NRM). Injections of 50–200 nl 10<sup>-6</sup> or 10<sup>-3</sup> M d-[<sup>3</sup>H] aspartate into the NRM resulted in prominent labelling of cells

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**[\[HTML\] Neuroprotective effect of vitamin E on the early model of Parkinson's disease in rat: behavioral and histochemical evidence](#)**

M Roghani, [G Behzadi](#) - Brain research, 2001 - Elsevier

Abstract There is strong evidence that oxidative stress participates in the etiology of Parkinson's disease (PD). We designed this study to investigate the neuroprotective effect of vitamin E in the early model of PD. For this purpose, unilateral intrastriatal 6-

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**[HTML] [Iberiotoxin-sensitive large conductance Ca<sup>v</sup>-dependent K<sup>+</sup> \(BK\) channels regulate the spike configuration in the burst firing of cerebellar Purkinje neurons](#)**

H Haghdoost-Yazdi, M Janahmadi, G **Behzadi** - Brain research, 2008 - Elsevier

Abstract Cerebellar Purkinje cells (PCs) are the sole output neurons of the cerebellar cortex. Mature PCs discharge either tonically Na<sup>+</sup> spikes or bursts of Na<sup>+</sup> spikes ending to a Ca<sup>v</sup> spike. These cells express inactivating and non-inactivating large conductance Ca<sup>v</sup>-

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**[HTML] [Efficacy of elevated body swing test in the early model of Parkinson's disease in rat](#)**

M Roghani, G **Behzadi**, T Baluchnejadmojarad - Physiology & behavior, 2002 - Elsevier

Abstract Animal models of Parkinson's disease (PD) with partial damage of the dopaminergic nigrostriatal system are very suitable for the development of neuroprotective and neurotrophic treatment strategies. Although drug-induced rotational behavior has

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**[HTML] [Co-treatment with riluzole, a neuroprotective drug, ameliorates the 3-acetylpyridine-induced neurotoxicity in cerebellar Purkinje neurones of rats: behavioural ...](#)**

M Janahmadi, I Goudarzi, MR Kaffashian, G **Behzadi**... - Neurotoxicology, 2009 - Elsevier

Abstract Riluzole has been shown to possess neuroprotective effects in a variety of neurological and animal model of diseases, including motor diseases. However, the mechanism (s) by which riluzole preserves the intrinsic electrophysiological characteristics

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**[HTML] [The role of small-conductance Ca<sup>v</sup>-activated K<sup>+</sup> channels in the modulation of 4-aminopyridine-induced burst firing in rat cerebellar Purkinje cells](#)**

HH Yazdi, M Janahmadi, G **Behzadi** - Brain research, 2002 - Elsevier

Abstract Small-conductance Ca<sup>v</sup>-activated K<sup>+</sup> channels (SK) regulate the firing properties of many types of neurons. In the mammalian brain, 3 subunits (SK<sup>1</sup>-SK<sup>3</sup>) are expressed with different distributions. Purkinje cells (PCs), the central neuron of the cerebellar basic

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[Electrical low frequency stimulation of the kindling site preserves the electrophysiological properties of the rat hippocampal CA<sup>1</sup> pyramidal neurons from the ...](#)

..., J Mirnajafi-Zadeh, [G Behzadi](#)... - ... Clinical Research in ..., ۲۰۱۳ - brainstimjrn.com

Abstract Background Deep brain stimulation (DBS) has emerged as a potential therapeutic strategy in the treatment of neurological disorders including epilepsy. However, the cellular mechanism responsible for the effects of DBS remains largely undefined. Therefore, using

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[\[HTML\] Reversible inactivation of the median raphe nucleus enhances consolidation and retrieval but not acquisition of passive avoidance learning in rats](#)

..., [F Motamedi](#), [A Rashidy-Pour](#), N Naghdi, [G Behzadi](#) - Brain research, ۱۹۹۹ - Elsevier

Abstract Involvement of median raphe nucleus (MRN) in acquisition, consolidation and retrieval of passive avoidance (PA) was investigated with functional suppression of this area by lidocaine. Rats carrying a chronically implanted cannula aimed at the MRN were trained

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[\[HTML\] Postnatal development of masseteric motoneurons in congenital hypothyroid rats](#)

[F Ganji](#), [G Behzadi](#) - Brain research, ۲۰۰۷ - Elsevier

Abstract It has been known that an intact thyroid hormone is obligatory for the attainment of the normal masticatory function at the time of weaning. Following induced maternal thyroid hypo-function, the development of masseter motoneurons was determined at postnatal days

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[\[HTML\] Profound Alterations in the Intrinsic Excitability of Cerebellar Purkinje Neurons Following Neurotoxin ۳-Acetylpyridine \(۳-AP\)-Induced Ataxia in Rat: New ...](#)

..., [M Shabani](#), [I Goudarzi](#), [G Behzadi](#)... - Physiological ..., ۲۰۱۱ - search.proquest.com

Abstract Alterations in the intrinsic properties of Purkinje cells (PCs) may contribute to the abnormal motor performance observed in ataxic rats. To investigate whether such changes in the intrinsic neuronal excitability could be attributed to the role of Ca<sup>sup ۲+</sup>-activated

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[\[HTML\] In vivo ۴-aminopyridine treatment alters the neurotoxin ۳-acetylpyridine-induced plastic changes in intrinsic electrophysiological properties of rat cerebellar ...](#)

..., [M Shabani](#), [H Haghdoost-Yazdi](#), [G Behzadi](#)... - European journal of ..., ۲۰۱۰ - Elsevier

Abstract Electrophysiological dysfunction of Purkinje cells causes cerebellar ataxia. Recent studies indicated that  $\epsilon$ -aminopyridine ( $\epsilon$ -AP) can prevent the attacks in patients with episodic ataxia type 2. However, the cellular mechanism (s) by which  $\epsilon$ -AP might be

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### [Differentiation potential of menstrual blood-versus bone marrow-stem cells into glial-like cells](#)

..., [S Kazemnejad](#), AH Zarnani, [G Behzadi](#)... - Cell biology ..., 2014 - Wiley Online Library

Abstract Menstrual blood is easily accessible, renewable, and inexpensive source of stem cells that have been interested for cell therapy of neurodegenerative diseases. In this study, we showed conversion of menstrual blood stem cells (MenSCs) into clonogenic

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### [Ovariectomy reduces the dendritic spine density of the dorsal raphe neurons in the adult rat](#)

S JAMEEI, AMH NOUYAN, [G Behzadi](#) - 2014 - sid.ir

Background-The sex steroid hormones play a significant role in modulating postnatal neuronal maturation, synaptology, and neural circuit formation. Female gonadal steroids are known to influence serotonergic system physiology in adulthood. We aimed at finding out if

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### [\[HTML\] A role for endocannabinoids in acute stress-induced suppression of the hypothalamic-pituitary-gonadal axis in male rats](#)

M Karamikheirabad, [G Behzadi](#)... - Clinical and ..., 2013 - synapse.koreamed.org

Objective Stress is known to be an inhibitor of the reproductive hypothalamic-pituitary-gonadal (HPG) axis. However, the neural and molecular connections between stress and reproduction are not yet understood. It is well established that in both humans and rodents,

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### [\[HTML\] Congenital hypothyroidism alters formalin-induced pain response in neonatal rats](#)

MH Rohani, Z Akbari, [G Behzadi](#) - International Journal of Developmental ..., 2009 - Elsevier

Abstract The present study designed to investigate the development of nociceptive circuits upon formalin-induced pain in congenital hypothyroid pups during the first three postnatal weeks. Following induction of maternal hypothyroidism, the offspring pups were received

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**[\[HTML\] NADPH-d/NOS reactivity in the lumbar dorsal horn of congenitally hypothyroid pups before and after formalin pain induction](#)**

Z Akbari, MH Rohani, [G Behzadi](#) - International Journal of Developmental ..., ۲۰۰۹ - Elsevier

Abstract We have previously demonstrated that congenitally hypothyroid rat pups exhibit altered behavioral response to formalin pain induction during postnatal period. In the present study, using NADPH-diaphorase histochemistry and NOS immunostaining, we

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**[Mapping neuropeptide-containing pathways in the brain with special reference to data obtained from the rat limbic system](#)**

M Arluison, [G Behzadi](#), M Vankova - International review of cytology, ۱۹۹۰ - Elsevier

Publisher Summary This chapter outlines the advantages and drawbacks of contemporary methods of neuroanatomy when combined with immunocytochemical methods for the identification of the content of neuronal pathways. The particulate tracers that are currently

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**[The effects of lidocaine reversible inactivation of the dorsal raphe nucleus on passive avoidance learning in rats](#)**

..., M Yazdi, B Heshmatian, [I Salehi](#), [G Behzadi](#)... - Basic and Clinical ..., ۲۰۱۱ - bcn.iums.ac.ir

Materials and Methods: DRN functional inactivation was done by lidocaine (۰.۰۰۵ μl, ۲٪) injection into the DRN, ۰ min before training (n= ۱۰) and ۰ (n= ۹), ۹۰ (n= ۱۰) and ۳۶۰ min (n= ۹) after acquisition trial. In the last experiment, lidocaine was injected into the DRN ۰ min

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**[RAPID EYE MOVEMENT SLEEP DEPRIVATION INDUCES ACETYLCHOLINESTERASE ACTIVITY IN THE PREOPTIC AREA OF THE RAT BRAIN](#)**

MH NOYAN ASHRAF, [G BEHZADI](#)... - Medical Journal of The ..., ۲۰۰۰ - mjiri.iums.ac.ir

ABSTRACT Acetylcholinesterase (AChE) is a large glycoprotein that, aside from its known cholinolytic activity, co-exists with other transmitter systems and possesses other functions. In the present study, the effects of short-tenn rapid-eye-movement sleep deprivation (REM-

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### [Reversible Inactivation and Excitation of Nucleus Raphe Magnus Can Modulate Tail Blood Flow of Male Wistar Rats in Response to Hypothermia](#)

..., AM Kourosh, [AAR SARIHI](#), S Hajizadeh, [G Behzadi](#)... - ۲۰۰۸ - sid.ir

Background: The nucleus raphe magnus (NRM) is involved in thermoregulatory processing. There is a correlation between changes in the firing rates of the cells in the NRM and the application of the peripheral thermal stimulus. Introduction: we examined the effect of

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P Pasbakhsh, [M MAHDIZADEH](#), [G Behzadi](#) - ۲۰۰۸ - sid.ir

Background: Mediodorsal (MD) thalamic nucleus, which is considered to take place between extra pyramidal and limbic feedback circuit, receives projective fibers from ventrolateral neurons of reticular part of substantia nigra (SNr). In order to better understand

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### [Effect of Intrathecal Transplantation of Adrenal Medullary Tissue on the Sciatic Nerve Regeneration Following Chronic Constriction Injury in the Rat](#)

H Manaheji, [F Nasirinezhad](#), [G Behzadi](#) - ۲۰۰۵ - sid.ir

Abstract: Introduction: It has been demonstrated that the adrenal medullary transplants into the spinal subarachnoid space can alleviate neuropathic pain behaviors. The aim of the present study was to test the possibility that histological changes of the sciatic nerve in a

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### [\[HTML\] Morphological changes in the masseter muscle and its motoneurons during postnatal development](#)

H Miyata, T Sugiura, N Wada, Y Kawai... - The Anatomical ..., ۱۹۹۶ - Wiley Online Library

... I. Jaw-closing motoneurons, The Journal of Comparative Neurology, ۲۰۰۷, ۵۰۳, ۶, ۷۷۹ Wiley Online Library; <sup>۹</sup> Farzaneh Ganji, **Gila Behzadi**, Postnatal development of masseteric motoneurons in congenital hypothyroid rats, Brain Research, ۲۰۰۷, ۱۱۲۹, ۸۱ CrossRef; ...

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### [The Effect of Nucleus Tractus Solitarius Nitric Oxidergic Neurons on Blood Pressure in Diabetic Rats](#)

AM KOUROSH, AAR SARIHI, G **BEHZADI**, I AMIRI... - ۲۰۰۶ - sid.ir

Abstract: It has been shown that nitric oxide is synthesized in the central nervous system as well as in vascular endothelial cells. Recently, it was reported that nitric oxide was involved in central cardiovascular regulation, baroreflex modulation, and involved in a reciprocal

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