

Amene Shahrokhi

Personal details

- ✓ **Date of birth:** May 17, 1972.
- ✓ **Place of birth:** Tehran, Iran.
- ✓ **Address:** Psychiatry and Psychology Research Center, Tehran University of Medical Sciences, South Kargar Sr., Tehran.
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Education

- ✓ **Post doctorate in France**
France, Institute of Neurobiology of the Mediterranean, INMED UMR901, Luminy Science Park 163 avenue de Luminy , BP13 - 13273 Marseille cedex 09 –
Tel: +33 (4) 91 82 81 0
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(Supervisor: Professor. BEN-ARI Yehezkel)
- ✓ **Neuroscience Ph.D**
Tehran University of Medical Sciences, Tehran, Iran (Supervisor: Professor. Zarindast)
- ✓ **Degree of M.S.C**
Baqiyatallah University of Medical Sciences, Tehran, Iran. (Supervisor: Professor Alireza Asgari)
- ✓ **Degree of B. S.**
Midwifery at Razi University, Kermanshah, Iran.

Postgraduate training

- ✓ **2014** attended the EMBO Conference Series; Brain development and disorders. La Ciotat, France, 5–8 September 2014.
- ✓ **2010** 5th Federation of Asian and Oceanian Neuroscience Societies (FAONS) Congress and the XXVIII Annual Meeting of the Indian Academy of Neurosciences (IAN). Lucknow, India. November 25 – 28, 2010.
- ✓ **2010** Epicure Training Courses from Gene Mutation to Animal Models of Epilepsy and Back, Marseille (Luminy's campus), France February 1st to 5, 2010
- ✓ **2009** 7 th INMED Conferences, Neuro Archeology: pre-symptomatic architecture and signatures of neurological disorders". INMED organized in la Ciotat , France.
- ✓ **2009** Workshop of “Behavioural Methods in Neuroscience” Tehran, Iran
- ✓ **2009** NeuroStereology Workshop, Iran University of Medical Science, Organizer: Mark J.West, Tehran, Iran.
- ✓ **2008** 10th IBRO-APRC School of Neuroscience. Kolkata, India 2008-2009
- ✓ **2007** Computational Neuroscience workshop. Department of Computer Science, university of Delhi, Delhi, India. 2007
- ✓ **2006** The 7th International Conference "Cellular Automate for Research and Industry". ACRI University of Perpignan, France.
- ✓ **2005** Scientific writing workshop Advanced level, Tehran University of Medical Sciences, Tehran, Iran.
- ✓ **2005** Health Management Course Tehran University of Medical Sciences, Tehran, Iran.
- ✓ **2004** The 2nd Federation of Asian – Oceania Neuroscience Societies (FAONS) Symposium and 3rd Iranian, Neuroscience Congress.16-19 May, 2004, Tehran Iran.
- ✓ **2003** Scientific writing workshop Basic and Intermediate levels, Tehran University of Medical Sciences, Tehran, Iran.

Professional membership

- ✓ **Iranian Medical Council (Membership No 3518)**

Research project

- ✓ **Research Assistant in the project titled:**” Oxytocin-mediated GABA inhibition during delivery attenuates autism pathogenesis in rodent offspring
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- ✓ **Research Assistant in the project titled:**” BDNF effect on expression of NKCC1/KCC2 transporters in human tissues obtained from drug-resistant temporal lobe epilepsy patients"
- ✓ **Research Assistant in the project titled:**” VEGF effect on expression of NKCC1/KCC2 transporters and development of spontaneous seizures in pilocarpine model of temporal lobe epilepsy
- ✓ **Research Manager in the project titled:**" Tiagabine Effects on the Physical Landmark and Neurobehavioral Reflex is related to GABA Switch in the Rat Cerebral Cortex during Developmental Stages"
- ✓ **Research Manager in the project titled:**” Tiagabine Effects on the Alternation of the Cation Chloride Cotransporters Expression in the Rat Cerebral Cortex during Developmental Stages”.
- ✓ **Research Manager in the project titled:** “The Effects of Organophosphate on the GABAergic system”. ID Number: 84-351, Biophysics and Physiology Department, Tehran University of Medical Sciences, Tehran, Iran.
- ✓ **Research Assistant in the project titled:** “Study of cholinergic and non cholinergic organophosphate effects on spontaneous and evoked release of neurotransmitter: Efficacy of super fusion. Biophysics and Physiology Department, Tehran University of Medical Sciences, Tehran, Iran.

Publications

1. Hossayni Mehrn, Asgari Alireza, Mehrani Hosaynali, poorabdolhosayn Fereshte, Shahrokhi Amene, Khoshbaten Ali. "Study of cholinergic and non cholinergic organophosphate effects on spontaneous and evoked release of neurotransmitter: Efficacy of super fusion. *Military medicine*, 2005; (1): 15-20.
2. Ghaemi M. and shahrokhi A. "Combination of The Cellular Potts Model and Lattice Gas Cellular Automata For Simulating The Avascular Cancer Growth". *Lecture Notes in Computer Science*, 2006; 4173: 297-303.
3. A. Shahroukhi, A. Ghasemi, F. Poorabdolhossein, A. Asgari, A. Khoshbaten. "The effect of paraoxon on GABA uptake in rat cerebellar synaptosomes". *Med Sci Monit*, 2007; 13(9): 194-199.
4. Pourabdolhossein F, Ghasemi A, Shahroukhi A, Sherafat MA, Khoshbaten A, Asgari A " In vitro assessment of paraoxon effects on GABA uptake in rat hippocampal synaptosomes ".*Toxicol in Vitro*. 2009; 23(5): 868-73.
5. Shahrokhi, Amene; Hassanzadeh, Gholamreza; Vouseoghi, Nasim; Mohammad T. Joghataeid, and Mohammad R. Zarrindasta. The effect of tiagabine on physical development and neurological reflexes and their relationship with the γ -aminobutyric acid switch in the rat cerebral cortex during developmental stage. *Behavioural Pharmacology*, 2013; 24 (7): 543-632.
6. Eftekhari S, Mehrabi S, Soleimani M, Hassanzadeh G, Shahrokhi A, Mostafavi H, Hayat P, Barati M, Mehdizadeh H, Rahmanzadeh R, Hadjighassem MR, Joghataei MT. "BDNF modifies hippocampal KCC2 and NKCC1 expression in a temporal lobe epilepsy model. *Acta Neurobiol Exp (Wars)*, 2014; 74(3):276-87.
7. Tyzio R, Nardou R, Ferrari DC, Tsintsadze T, Shahrokhi A, Eftekhari S, Khalilov I, Tsintsadze V, Brouchoud C, Chazal G, Lemonnier E, Lozovaya N, Burnashev N, Ben-Ari Y. Oxytocin-mediated GABA inhibition during delivery attenuates autism pathogenesis in rodent offspring. *Science*, 2014; 343(6171):675-9.
8. Amene Shahrokhi , Sanaz Eftekhari,, Vera Tsintsadze, Romain Nardou, Corinne Brouchoud, Magali Conesa, Nail Burnashev, Diana C. Ferrari, and Yehezkel Ben-Ari. "Response to Comment on "Oxytocin-mediated GABA inhibition during delivery attenuates autism pathogenesis in rodent offspring". *Science*, 2014; 10: 176

9. The dissertation with title:” The effect of paraoxon on GABA uptake in rat cerebellar synaptosomes”. Author: Amene Shahrokhi, Number 84-351, with 113 pages.
10. The dissertation with title:” The effect of GABA transporter inhibitor of the cation chloride co-transporters(KCC2, NKCC2) expression in the rat cerebral during developmental stages”. Author : Amene Shahrokhi, with 125 pages.
11. Somayeh Solhjoo, Mohammad Akbari, Heidar Toolee, Keywan Mortezaee,| Mahshid Mohammadipour, Seyed Nouredin Nematollahi-Mahani,| Amene Shahrokhi, Mahtab Sayadi, Tayebah Rastegar. Roles for osteocalcin in proliferation and differentiation of spermatogonial cells cocultured with somatic cells. Journal of Cellular Biochemistry, 2018; 1-11

Book translation

Neuronal stem cells and therapy. ISBN: 978-964-8376-27-2.

Teaching

Teaching to international students in the fields of:

- Medicine
- Dentistry
- Pharmacy, and
- Paramedicine

in University Camps: Tehran, Kish, and Ramsar

Paper presentation in congresses

1. Tyzio R, Nardou R, Ferrari DC, Tsintsadze T, Shahrokhi A, Eftekhari S, Khalilov I, Tsintsadze V, Brouchoud C, Chazal G, Lemonnier E, Lozovaya N, Burnashev N, Ben-Ari Y. Oxytocin-mediated GABA inhibition during delivery attenuates autism pathogenesis in rodent offspring. *EMBO Conference Series; Brain development and disorders. La Ciotat, France, 5–8 September 2014.*

2. A Shahrokhi, M R Zarrindast, GH Hassanzade." The Role of NNC 711 in expression of Cltransporters". *5th Federation of Asian and Oceanian Neuroscience Societies (FAONS) Congress and the XXVIII Annual Meeting of the Indian Academy of Neurosciences (IAN). Lucknow, India. November 25 – 28, 2010.*
3. A.Shahrokhi, A.Qasemi, M.Hosseini, B. Solaimani, F.Pourabdoulhossaen, A.Asgari, A.Khoshbaten"The effect of paraoxon on GABA uptake in cerebellar synaptosome". *17th Iranian congress of physiology and pharmacology*. Kerman, October Iran 1-4 2005.
4. Fereshteh Poorabdolhossein, Asghar Qasemi, Mehran Hosseini, Ameneh Shahrokhi, Bahareh Soleimani, Ali Khoshbatenand Alireza Asgari "The time effect on LDH activity in cerebellar synaptosomes ". *17th Iranian congress of physiology and pharmacology*.Kerman, Iran 1-4 October 2005.
5. Ghaemi, M.; Shahrokhi, A. and Asgari, A. "Simulation of Avascular Cancer Growth by Cellular Automata". *The First Iranian seminar on the Bioinformatics*. University of Tehran, 2003.

Positions

- ✓ **2013-untill now; Researcher**
School of Advanced Technologies in Medicine, Tehran University of Medical Sciences, Tehran, IRAN
- ✓ **2001-2009- Present Scientometrics Officer**
vice-chancellor of health, Tehran, Iran.
- ✓ **1997-2001 Chief Midwifery**
Hassan Abad urban health center, Shahre-Rey Health Center, Tehran, Iran.
- ✓ **1995-1997 Chief midwifery**
Hamedan town, by residing at Gian Urban , Health care Center in Hmedan Province.
- ✓ **1993-1995 Chief midwifery**
Hamedan town, by residing at famenin Urban , Health care Center in Hmedan Province.

Awards and achievements

2013 The top-ranking in Graduates of Tehran University of Medical Sciences.

2010 Traveling award to attend in “5th Federation of Asian and Oceanian Neuroscience Societies (FAONS) Congress and the XXVIII Annual Meeting of the Indian Academy of Neurosciences (IAN). Lucknow, India”.

2009 The top-ranking in Neuroscience Entrance Exam in IRAN.

2008 Traveling award to attend in “10th IBRO-APRC School of Neuroscience. Kolkata, India”.

2007 Traveling award to attend in “Computational Neuroscience workshop. Department of Computer Science, university of Delhi, Delhi, India”.

2005 Deans award for high achievements.

1998 The top-ranking in midwifery in Iran

Languages

- ✓ Persian (mother tongue)
- ✓ English (fluent)
- ✓ French (mediocre)
- ✓ Arabic (mediocre)

Laboratory Skills

➤ **Human Study**

- ✓ Clinical trial
- ✓ Cognitive therapy(CT)
- ✓ Neurofeedback
- ✓ Occupational therapy (OT)
- ✓ Applied Behavior Analysis (ABA)

➤ **Animal Study**

- ✓ Behavioral methods to evaluate:
 - Learning and memory
 - Anxiety
 - Addiction
 - Developmental reflexes
 - Rehabilitation

➤ **Cellular and molecular Study**

- ✓ Western Blotting
- ✓ Polymerase chain reaction (PCR)
- ✓ Real time PCR
- ✓ Immunohistochemistry
- ✓ Stem Cell Culture Technique
- ✓ Biochemical methods
 - Synaptosome preparation
 - Superfusion system
- ✓ Electrophysiological Recording methods

➤ **Computational Study**

- ✓ Cellular automata(CA)
- ✓ Systematic review of research
- ✓ Meta-analysis of research

Computer Skills

- Professional software: SPSS, Sigma plot, Prism.
- Advanced user of Microsoft Office.
- Operating systems: Windows, Linux.
- Programming: C, C++.
- Software of Mat lab.