

## Curriculum Vitae

**First name:** Rokhsareh  
**Surname:** Meamar  
**Gender:** Female  
**Marital Status:** Married  
**Address:** PO Box 81567-35551 Isfahan, Iran



**Telephone:** 983111261591  
**Mobile:** 989133091206  
**E-mail:** meamar@pharm.mui.ac.ir  
rokhsareh 81@yahoo.com

Current appointment: Professor Assistant of medical science, neuroscience research center  
Alzahra hospital, Isfahan. IRAN, Tel: 0098311-6291050

### EDUCATION:

- **Ph,D from Department of Pharmacology, isfahan Medical University, pharmacy School, Isfahan, Iran**  
**Major courses:**  
**Pharmacodynamic, pharmacokinetic**  
**Neuropharmacology, cardiopharmacology**  
**Endocrine pharmacology**  
**Toxicology**  
**Biotechnology and advanced pharmacology**

**Thesis project: *In vitro* effects of glutamate and metabotropic GLU5 receptors in MDMA induced toxicity on stemness characteristic of the mouse embryonic stem cell.**

- **1989-1996 MD, School of Medicine Isfahan University of Medical Sciences, Isfahan, Iran**

Thesis project: correlation between MS (multiple sclerosis) and viral disease in AL-zahra hospital

**AWARDS AND SCHOLARSHIPS**

1998, Iranian breast cancer society certificate

From 2010 as a Referee for cell journal and International journal of fertility & sterility

**WORK EXPERIENCE:**

Jan2005-present, Research Assistant in royan institute, Isfahan, Iran

2003-2005, General Practitioner/Principal House Officer, shariati Hospital , Isfahan, Iran.

2001-2003, General Practitioner in beheshti hospital (genecology referral centre)

1997-2001, Research Assistant in Iranian breast cancer society, Tehran, Iran

1994-1996 Internship, Isfahan University of Medical Sciences teaching hospitals:

Internal Medicine	4 months
Surgery	3 months
Paediatrics	3 months
Obs & Gyn	2 months
Neurology	1 month
Ear, Nose, Throat	1 month
Psychiatry	1 month
Dermatology	1 month
Ophthalmology	1 month
<u>Rural Medicine Field</u>	<u>1 month</u>
<b>Total</b>	<b>18 Months</b>

### **TEACHING EXPERIENCE:**

**Symptomatology in medical science, Isfahan & khorasgan medical university (1999-2003)**

**Medical pharmacology, Nagafabad medical university (since 2003-2012)**

**Dentist pharmacology, for dentistry resident of khorasgan medical university**

**Teaching of neuropharmacology (Antidepressant, Anti psychotic, Anticonvulsant , Antianxiety drugs) for neurology residents**

### **PROFESSIONAL QUALIFICATIONS:**

**1) Cell Culture Protocols**

**2) Using of EST (embryonic stem cell test ) for evaluation of teratogenicity of MDMA and compare with negative and positive control for the first time in Royan institute**

**3) Evaluation effects of MDMA on cardiac differentiation as hanging protocol**

**4) Evaluation of viability of stem cell using MTT assay**

**5) Differentiation into neuron was carried out on EBs according to 2<sup>-</sup>/2<sup>+</sup>/2<sup>+</sup> protocol for the first time in Royan institute**

**6) Evaluation effects of MDMA on neuronal differentiation and compare with methamphetamine and amphetamine**

**7) Immunocyto & histochemistry for evaluation of stemness characteristic cell on stem cell and expression of mGlu5 receptor**

**8) Reverse Transcriptase PCR for evaluation of stemness characteristic cell on stem cell and expression of mGlu5 receptor**

**9) Real Time PCR for evaluation of stemness characteristic cell on stem cell and expression of mGlu5 receptor**

**10)Fluocytometry for evaluation of stemness characteristic cell on stem cell and expression of mGlu5 receptor Reverse Transcriptase PCR**

**11) Working on p19 cells and compare with mouse embryonic stem cell**

**12) Working with GFP(+)cells (this cell labeled for Oct4 marker) instead of embryonic stem cell and compare these groups**

**13) Evaluation of apoptosis that induced with MDMA and assessment of caspase3 activation with this drug**

## **PUBLICATIONS:**

- 1) **Meamar R**, Mirmohammadsadeghi H. Group-I metabotropic glutamate receptors: their dual role in neurotoxicity and neuroprotection. *Razi* 2007; 13(5):22-26
- 2) **Meamar R**, Minaian M. Evaluation the role of prolactin in breast cancer. *Razi* 2006; 207(3):29-34
- 3) **Meamar R**, Mirmohammadsadeghi H. Intracellular signaling and function of group I metabotropic glutamate receptors. *Razi* 2010;103(2):17-24
- 4) **Meamar R**, Karamali F, Mirmohamad Sadeghi H, Etebari M, Nasr-Esfahani MH, Baharvand H. Toxicity of ecstasy (MDMA) towards embryonic stem cell-derived cardiac and neural cells. *Toxicology in Vitro xxx* (2010) xxx-xxx.
- 5) **Meamar R**, Karamali F, Mousavi SA, Nasr-Esfahani MH, Baharvand H. Could ecstasy (MDMA) promote stemness characteristic in mouse embryonic stem cells via mGlu5 metabotropic glutamate receptors? *Cell Journal (Yakhteh)*. 2012; 14(3): 185-192.
- 6) **Meamar R**, Dehghani L, Karamali F. Toxicity effects of methamphetamine on embryonic stem cell-derived neuron. *Res Med Sci* 2012; 17(5): 470-4.
- 7) **Meamar R**, Nasr-Esfahani MH, Mousavi SA, Basiri K. Review article: stem cell therapy in amyotrophic lateral sclerosis. *J Clin Neurosci*. 2013 Oct 19. pii: S0967-5868(13)00357-3. doi: 10.1016/j.jocn.2013.04.024. [Epub ahead of print]
- 8) Foroughipour A, Norbakhsh V, Hosseinpour Najafabadi S, **Meamar R**. Evaluating sex hormone levels in reproductive age women with multiple sclerosis and their relationship with disease severity. *Res Med Sci* 2012; 17(5): 60-63.
- 9) Dehghani L, **Meamar R**. Comparison of the Effects of Ecstasy and methamphetamine on the RB1 Mouse Embryonic Stem Cells Differentiation into Neural Cells. *Journal of Isfahan Medical School*. Vol. 30, No. 214, 4th week, January 2013
- 10) Dehghani L, Sahraei H, **Meamar R**, Kazemi M. Time-Dependent Effect of Oral Morphine Consumption on the Development of Cytotrophoblast and Syncytiotrophoblast Cells of the Placental Layers during the three Different Periods of Pregnancy in Wistar Rats. *Clinical and Developmental Immunology*. Vol 2013, Article ID 974205, 6 pages <http://dx.doi.org/10.1155/2013/974205>
- 11) **Meamar R**, Ostadsharif M, Saadatnia M, Ghorbani A, Nouri N, Dehghani L, *et al*. Mutation analysis of *CACNA1A* gene in Iranian migrainous and review literatures. *J Res Med Sci* 2013;18:S6-S10.
- 12) **Meamar R**, Soltani N, Mohammadi N, Ostadsharif M. Thr698Thr (nt2369) polymorphism on *CACNA1A* gene and head pain severity in familial migraine. *J Res Med Sci* 2013;18:S11-S4.

- 13) Meamar R, Dehghani L, Ghasemi M, Saadatnia M, Basiri K, Faradonbeh NA, *et al.* Enalapril protects endothelial cells against induced apoptosis in Alzheimer's disease. *J Res Med Sci* 2013; 18:S1-S5.
- 14) Dehghani L, Hashemi-Beni B, Poorazizi E, Khorvash F, Shaygannejad V, Sedghi M, Meamar R Evaluation of neural gene expression in serum treated embryonic stem cells in Alzheimer's patients. *J Res Med Sci* 2013;18:S20-S23.
- 15) Vafaei Z, Mokhtari H, Sadooghi Z, Meamar R, Chitsaz A, Moeni M. Malnutrition is associated with depression in rural elderly population. *J Res Med Sci* 2013;18: S15-S9.
- 16) Meamar R, Maracy M, Chitsaz A, Ghazvini RA, Izadi M, Tanhaei AP. Association between serum biochemical levels, related to bone metabolism and Parkinson's disease. *J Res Med Sci* 2013; 18: S39-S42.
- 17) Sedghi M, Behnam M, Fazel E, Salehi M, Ganji H, Meamar R, *et al.* Genotype-phenotype correlation of survival motor neuron and neuronal apoptosis inhibitory protein genes in spinal muscular atrophy patients from Iran. *Adv Biomed Res* 2014;3:74.
- 18) Meamar R, Dehghani L, Ghasemi M, Khorvash F, Shaygannejad V. Stem Cell Therapy in Stroke: A Review Literature. *Int J Prev Med* 2013;Suppl 2: S139-46.
- 19) Shaygannejad V, Rezaei Dehnavi S, Ashtari F, Karimi S, Dehghani L, Meamar R, Tolou-Ghamari Z. Study of Type A and B Behavior Patterns in Patients with Multiple Sclerosis in an Iranian Population. *Int J Prev Med* 2013;Suppl 2: S279-83
- 20) Shaygannejad V, Khatoonabadi SA, Shafiei B, Ghasemi M, Fatehi F, Meamar R, Dehghani L. Olanzapine Versus Haloperidol: Which Can Control Stuttering Better? *Int J Prev Med* 2013;Suppl 2: S270-3.
- 21) Ahmadmsifaraz M, Forughipour A, Abedi H, Azarbarzin M, Dehghani L, Meamar R. Anxiety of Women Employees and The Process of Maternal Role. *Int J Prev Med* 2013;Suppl 2: S262-9.
- 22) Meamar R, Etedali F, Sereshti N, Sabour E, Dehghani Samani M, Piri Ardakani MR, Mirhosseini SMM, Maracy M. Predictors of Smoking Cessation and Duration: Implication for Smoking Prevention. *Int J Prev Med* 2013;Suppl 2: S194-200.
- 23) Meamar R, Askari GR, Ghasemi M, Aghaye Ghazvini MR, Vesal S, Sharifkhan M, Alaei faradonbeh N, Dehghani L. Is Anti-Cyclic Citrullinated Peptide Antibody a Good Value Biomarker for Alzheimer Disease? *Int J Prev Med* 2013;Suppl 2: S201-4.
- 24) Dehghani L, Meamar R, Askari GR, Khorvash F, Shaygannejad V, Foroughi Pour A, Haghjooy Javanmard SH. The Effect of Pioglitazone on the Alzheimer's Disease-Induced Apoptosis in Human Umbilical Vein Endothelial Cells. *Int J Prev Med* 2013;Suppl 2: S205-10.
- 25) Dehghani L, Meamar R, Etemadifar M, Askari GR, Shaygannejad V, Sharifkhan M, Tahani S. Can Vitamin D Suppress Endothelial Cells Apoptosis in Multiple Sclerosis Patients? *Int J Prev Med* 2013;Suppl 2: S211-15.

26) Sahraei H, Rostamkhani F, Tekieh E, Dehghani L, Meamar R, Kazemi M. Identification of Morphine Accumulation in the Rat Embryo Central Nervous System: A C14-Morphine Administration Study. *Int J Prev Med* 2013;Suppl 2: S222-28.

27) Alikhani P, Vesal S, Kashefi P, Etamadi Pour R, Khorvash F, Askari GR, Meamar R. Application and Preventive Maintenance of Neurology Medical Equipment in Isfahan Alzahra Hospital. *Int J Prev Med* 2013;Suppl 2: S323-9

28) Shaygannejad V, Emami Ardestani P, Ghasemi M, Meamar R. Restless Legs Syndrome in Iranian Multiple Sclerosis Patients: A Case-Control Study. *Int J Prev Med* 2013;Suppl 2: S189-93.

29) Ahmad Chitsaz, Mohammad Maracy, Keivan Basiri, Maryam Izadi Boroujeni, Amir Pouya Tanhaei, Marzieh Rahimi, and Rokhsareh Meamar. "25-Hydroxyvitamin D and Severity of Parkinson's Disease," *International Journal of Endocrinology*, vol. 2013, Article ID 689149, 4 pages, 2013. doi:10.1155/2013/689149

30) Ostadsharif M, Ghorbani A, Salehi M, Meamar R. Is there any Genetic Correlation between *CACNA1A* Gene and Common Migraine in Iran? *J Isfahan Med Sch* 2013; 31(245): 1105-13

31) Meamar R, Ghasemi M, Dehghani L. Comparing Anti-apoptotic Effects of Peroxisome Proliferator-Activated Receptor-Gamma and Angiotensin-Converting Enzyme Inhibitors using Human Umbilical Vein Endothelial Cells Exposed to Sera from Patients with Alzheimer's Disease and Healthy Controls. *J Isfahan Med Sch* 2014; 31(264):

32-Meamar R, Maracy M, Ghasemi M, Salesi M. The Role of Anti-cyclic Citrullinated Peptide Antibody from Joint to Brain. *J Isfahan Med Sch* 2014; 31(265):

33) Meamar R, Chitsaz A, Rahmanian M, Izadi-Boroujeni M. Evaluating Function of Parathyroid Gland Axis in Parkinson's Disease. *J Isfahan Med Sch* 2014; 31(266):

#### CONFERENCE (oral presentation):

1- Stem cell therapy in neurologic disorder at December 2010 in Al-Zahra hospital in neurologic congress in November 2011.

2- Stem cell and ALS in the first neuromuscular congress in Isfahan medical university at April 2012

3- Stem cell and stroke in November 2012 in stroke congress in Isfahan , Iran

#### POSTER PRESENTATION:

1- Evaluation of teratogenicity of MDMA on cardio- and neurogenesis using mouse embryonic stem cell. Clinical pharmacology conference, Quebec Canada, 2008. Meamar R, Karamali F, Mirmohammad Sadeghi H, Nasr-Esfahan M-H.

2-Toxicity effects of methamphetamine on embryonic stem cell-derived neuron. Rokhsareh Meamar , Leila Dehghani , Seyed Ali mousavi. in neurology congress at October 2012.

3- Is the *CACNA1A* Gene Involved in Common Type of migraine? Rokhsareh Meamar ,  
Mohammad Saadatnia , Abbas Ghorbani neuron in neurology congress at October 2012.

4- Assessment of methamphetamine effects on embryonic stem cell-derived neuron in addictive  
biology 2012

5- 25 hydroxyvitamin D and severity of Parkinson disease in Isfahan-Iran. in neuroscience congress  
2012, Meamar R, Izadi Maryam, Rahmanian Mohsen, Chitsaz A, Tanhaei AP

6- Effects of Ecstasy in Self-renewal Properties Mediated with Glutamate receptor in Mouse  
Embryonic Stem Cells in royan congress 2013 , Rokhsareh Meamar, Leila Dehghani, Fereshte  
Karamali, Hossein Baharvand, Mohammad Hossein Nasr-Esfahani

7- Angiotensin-Converting Enzyme Inhibitors have Beneficial Effects on endothelial Cell  
Dysfunction in royan congress 2013 Rokhsareh Meamar, Leila Dehghani, Majid Ghasemi

8- Comparison of the Effects of Ecstasy and methamphetamine on the RB1 Mouse Embryonic Stem  
Cells Differentiation into Neural Cells in addiction congress 2013

9- New drug in Multiple Sclerosis in 10 multiple sclerosis congress in Isfahan in October 2013

Dr Rokhsareh Meamar , Dr Ahmad Chitcaz , Leila Dehghani

10- Transdermally applied myelin peptides in multiple sclerosis in 10 multiple sclerosis congress in  
Isfahan in October 2013 , Dr Rokhsareh Meamar, Dr Ahmad Chitcaz, Leila Dehghani

#### **PROPOSAL WHILE IN DOING:**

1- Evaluation of therapeutic effects of mesenchymal stem cells combined with neuronal progenitor cells  
on neurological function improvement after induced embolic stroke model of rat as a first performer.

2- A comparison of the effect of ergot and non-ergot dopamine agonists on postural stability in patients  
with Parkinson disease as a first performer.

3- The Prognostic Value of Endothelial Markers for Determination of Cardiovascular Disorders in  
Children with End Stage Renal Disease as a second performer.

4- Evaluation of spot mutation in spinal muscular atrophy as a colleague.

5- **The effect of intrathecal injection of autologous mesenchymal stem cells in ALS patient's  
symptoms improvement as a first performer.**

6- Assessment of circulating endothelial progenitor cells in transient ischemic attack and its relation with  
possibility of stroke incidence as a first performer.

7- Determination of mercury and Pb, Fe, Cu level in serum of Parkinson's disease patients in  
comparison to healthy control group in Isfahan-Iran as a first performer.

**BOOK PUBLICATION:**

- 1- Medical pharmacology
- 2- Stem cell and multiple sclerosis
- 3- A handbook of clinical pharmacology for medical students
- 4- Translation of illustrated pharmacology (lippincot)

**Others:**

- 1-refree for cell journal (yakhte)
- 2-refree for Journal of research of medical science
- 3-refree and editorial board in Iranian journal of basic medical science

**Awards:**

- 1- Ezama Awards of addiction congress for article” Assessment of methamphetamine effects on embryonic stem cell-derived neuron” in 2012
- 2- Ezama Awards of addiction congress for article “Comparison of the Effects of Ecstasy and methamphetamine on the RB1 Mouse Embryonic Stem Cells Differentiation into Neural Cells in 2013
- 3- جایزه خادمین مکتوب و کتاب برگزیده سال بابت کتاب کاربرد بالینی داروها در یک نگاه