



Curriculum Vitae

PERSONAL INFORMATION

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EDUCATION

B.Sc. 1992-1996	Isfahan University of Medical Sciences, Isfahan, Iran. B.Sc. in Nursing, (GPA = 18.75/20).
M.Sc. 1999-2001	Tehran University of Medical Science, Tehran, Iran M.Sc. in Medical Physiology (GPA: 19.38/20) M.Sc. Thesis title: Detection of plasma and renal Vitamin E in Lipopolysaccharide- treated rats Advisor: Professor Mehri Kadkhodae E-mail: mehr45@yahoo.com
Ph.D. 2001-2006	Baqiyatallah Medical Sciences University, Tehran, Iran. Ph.D. in Medical Physiology (GPA: 19.20/20) Ph.D. Thesis title: Effect of paraoxon on GABA uptake by rat cerebral cortex synaptosomes Advisor: Professor Alireza Asgari E-mail: asgari@bmsu.ac.ir
Honorary Research Fellow 29 th Jan 2007- 28 th Apr 2007	Kings College London, Rayne Institute, Department of Cardiology (St. Thomas Hospital), Cardiovascular Division Honorary Research Fellow Research subject: Effect of ACE inhibitors on expression of uncoupling proteins in cell culture Supervisor: Dr. Richard Heads E-mail: Richard.heads@kcl.ac.uk

PUBLICATIONS

I. Books

1. *Questions of Physiology, Ph.D. course-with detailed answers. [Persian] authors: [Ghasemi A](#), Rastegar Farajzadeh A, 2002, Poursina publisher. ISBN: 964567072-1.*
2. *Questions of Physiology, Ph.D. course-with detailed answers. [Persian] authors: [Ghasemi A](#), Najafi Mehri S, 2004, Noora Publisher. ISBN: 964-92752-8-2.*
3. *A simple guide to SPSS for windows, Translation by: [Ghasemi A](#), 2007, Teymoorzadeh Publisher. ISBN: 978-964-420-378-7.*
4. *Four choice questions of Physiology with detailed answers, M.Sc. course. [Ghasemi A](#), Mohammadi M, Abdolhosseini M. 2007, Farhang Publisher. ISBN: 978-964-155-020-4.*
5. *Pocket companion to Guyton & Hall Textbook of medical Physiology. 14th edition. Translation by: [Ghasemi A](#), Mohammadi M. 2021, Etminanrad Publisher. ISBN: 978-622-256-095-9.*
6. *500 questions of Physiology M.Sc. and Ph.D. courses of nutrition field with detailed answers. [Ghasemi A](#), Nourabadi D. Khosravi Publisher. 2009, ISBN: 978-600-5523-26-3.*
7. *Medical Physiology, for exam. [Ghasemi A](#), Mohammadi M. 2009, Khosravi Publisher. ISBN: 978-600-5523-22-5.*
8. *Questions of Physiology, B.Sc. Course with detailed answers. [Ghasemi A](#), Abdolhosseini M. 2010, Farhang Publisher. ISBN: 978-964-155-153-9.*
9. *Iran Questions Bank (IQB), Physiology. [Ghasemi A](#), Shafiee M. 2010, Beh Andishan Publisher. ISBN: 978-600-5677-13-3.*
10. *Cell physiology. [Ghasemi A](#), Naderi A, Zahed R. Dr. Khalili Publisher. ISBN: 978-600-92008-1-8.*
11. *Guyton & Hall Textbook of Medical Physiology, [Ghasemi A](#), Mohammadi M. 2021, Etminanrad Publisher. ISBN: 978-622-256-071-3*
12. *Questions of Physiology for clinical biochemistry Ph.D. course. [Ghasemi A](#), 2012, Dr. Khalili Publisher. ISBN: 978-600-6223-24-7.*
13. *Essentials of medical physiology, [Ghasemi A](#), Shoja Gharehbagh S. 2017, Khalili Publisher. ISBN: 978-600-7888-96-4.*
14. *THE ROLE OF NITRIC OXIDE IN TYPE 2 DIABETES, [Ghasemi A](#), Kashfi Kh, Bahadoran Z, 2022, Bentham Sciences, ISBN: 978-981-5079-81-4.*

2. Chapter in Books

1. *Monosodium Glutamate (MSG)-Induced Animal Model of Type 2 Diabetes: Bahadoran Z, Mirmiran P, [Ghasemi A](#), Methods in Molecular Biology. 2019;1916:49-65. doi: 10.1007/978-1-4939-8994-2_3.*
2. *Hydrogen Sulfide and Carbohydrate Metabolism. Bahadoran Z, Mirmiran P, [Ghasemi A](#), Frontiers in Clinical Drug Research-Diabetes and Obesity, Atta-Ur-Rahman, Editor. 2019, Bentham Science Publishers: Sharjah, UAE. p. 226-258.*
3. *Beneficial Effects of Inorganic Nitrate/Nitrite on Vascular Function and Blood Pressure in Diabetes, Bahadoran Z, Mirmiran P, [Ghasemi A](#) in Mechanisms of Vascular Defects in Diabetes Mellitus, C.C. Kartha, S. Ramachandran, and M.R. Pillai, Editors. 2017, Springer: Switzerland. p. 515-534.*

3. Full papers

2.1. International articles

1. [Ghasemi A](#), Mirmiran P, Kashfi Kh, Bahadoran Z*: *Scientific Publishing in Biomedicine: A Brief History of Scientific Journals. International Journal of Endocrinology and Metabolism. 2023 Jan; 21(1): e131812. doi: 10.5812/ijem-131812.*
2. [Ghasemi A](#), Jeddi S*: *Streptozotocin as a tool for induction of rat models of diabetes: a practical guide. EXCLI Journal. 2023 Feb 21;22:274-294. doi: 10.17179/excli2022-5720.*
3. [Ghasemi A](#), Gheibi S, Kashfi Kh*, Jeddi S*: *Anti-oxidant effect of nitrite in the pancreatic islets of type 2 diabetic male rats. Iranian Journal of Basic Medical Sciences. 2023 Apr;26(4):420-428. doi: 10.22038/IJBMS.2023.68245.14900.*
4. Yousefzadeh N, Jeddi S, Zarkesh M, Kashfi Kh, [Ghasemi A](#)*: *Altered sialin mRNA gene expression in type 2 diabetic male Wistar rats: implications for nitric oxide deficiency. Scientific reports. 2023 Mar 10;13(1):4013. doi: 10.1038/s41598-023-31240-4.*
5. Bagheripour F, Jeddi S, Kashfi Kh*, [Ghasemi A](#)*: *Metabolic effects of L-citrulline in type 2 diabetes. Acta physiologica. 2023 Jan 16;e13937. doi: 10.1111/apha.13937.*
6. Bahadoran Z, Mirmiran P, Kashfi Kh, [Ghasemi A](#)*: *Scientific Publishing in Biomedicine: Information Literacy. International Journal of Endocrinology and Metabolism. 2022 Aug 12; 20(3):e128701. doi: 10.5812/ijem-128701.*
7. Yousefzadeh N, Jeddi S, Kashfi Kh, [Ghasemi A](#)*: *Long-term inorganic nitrate administration protects against ovariectomy-induced osteoporosis in rats. Excli journal. 2022; 21:1151-1166. doi: https://doi.org/10.17179/excli2022-5082.*
8. [Ghasemi A](#), Jeddi S*: *Quantitative aspects of nitric oxide production in the heart. Molecular biology report. 022 Sep 15. doi: 10.1007/s11033-022-07889-x.*
9. Yousefzadeh N, Jeddi S, Afzali H, Kashfi Kh, [Ghasemi A](#)*: *Chronic nitrate administration increases the expression of the genes involved in the browning of white adipose tissue in female rats 2022. Cell Biochemistry & Function. 2022 Sep 13. doi: 10.1002/cbf.3741.*

10. [Ghasemi A](#), Afzali H, Jeddi S*: Effect of oral nitrite administration on gene expression of SNARE proteins involved in insulin secretion from pancreatic islets of male type 2 diabetic rats. **Biomedical journal**. 2022 Apr;45(2):387-395. doi: 10.1016/j.bj.2021.04.004.
11. Jeddi S, Gheibi S, Afzali H, Carlström M, Kashfi Kh, [Ghasemi A*](#): Hydrogen sulfide potentiates the protective effects of nitrite against myocardial ischemia-reperfusion injury in type 2 diabetic rats. **Nitric Oxide - Biology and Chemistry**. 2022 Apr 30;124:15-23. doi: 10.1016/j.niox.2022.04.004.
12. [Ghasemi A*](#): Quantitative aspects of nitric oxide production from nitrate and nitrite. **EXCLI Journal**. 2022 Feb 21;21:470-486. doi: 10.17179/excli2022-4727.
13. Bahadoran Z, Mirmiran P, Kashfi Kh, [Ghasemi A*](#): Scientific Publishing in Biomedicine: Revising a Peer-reviewed Manuscript. **International Journal of Endocrinology and Metabolism**. 2022 Jan 1;20(1):e120366. doi: 10.5812/ijem.120366.
14. Bahadoran Z, Jeddi S, Mirmiran P, Kashfi Kh, Azizi F, [Ghasemi A*](#): Association between serum hydrogen sulfide concentrations and dysglycemia: a population-based study. **BMC Endocrine Disorders**. 2022 Mar 28;22(1):79. doi: 10.1186/s12902-022-00995-8.
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23. [Ghasemi A*](#): Uric acid-induced pancreatic β -cell dysfunction. *BMC endocrine disorders*. . 2021 Feb 16;21(1):24. doi: 10.1186/s12902-021-00698-6.
24. [Ghasemi A](#), Jeddi S*, Kashfi Kh*: The laboratory rat: Age and body weight matter. *EXCLI Journal*. 2021 Sep 23;20:1431-1445. doi: 10.17179/excli2021-4072.
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39. Bahadoran Z, Mirmiran P, Carlström M, Norouzirad R, Jeddi S, Azizi F, [Ghasemi A*](#): Different Pharmacokinetic Response to an Acute Dose of Inorganic Nitrate in Patients with Type 2 Diabetes. **Endocrine, metabolic & immune disorders drug targets**. 2021. doi: 10.2174/1871530320666200813135251.
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43. Sheikholeslami S, Azizi F, [Ghasemi A](#), Alibakhshi A, Parsa H, Tavangar S.M, Shivaee S, Yeganeh M.Z, Hedayati M*, Teimoori-Toolabi L*: NOLA is Downregulated and Hyper-Methylated in Papillary Thyroid Carcinoma

Suggesting Its Role as a Tumor Suppressor Gene. International Journal of Endocrinology and Metabolism. Volume 18, Issue 4, 2020 Oct 19, Article number e108510.

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4. Abstracts

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33. *13th Asia-Oceania Congress of Endocrinology, Tehran-Iran, May 10-12, 2006. Noursadeghi E, [Ghasemi A](#), Zahedi Asl S, Faraji F. Relaxatory effect of magnesium in presence or absence of L-NAME on isolated rat aorta.*
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35. *13th Asia-Oceania Congress of Endocrinology, Tehran-Iran, May 10-12, 2006. [Ghasemi A](#), Zahedi Asl S, Khaksari M, Shafiee M. effect of fetal and neonatal hypothyroidism on serum cholinesterase activity during adulthood in male rats.*
36. *13th Asia-Oceania Congress of Endocrinology, Tehran-Iran, May 10-12, 2006. Zahedi Asl S, Azizi F, Khalili N, [Ghasemi A](#), Hedayati M. Osmotic fragility of red blood cells of hypothyroid patients and control subjects.*
37. *7th Annual Research Congress of Iranian Medical Science Students, Tehran-Iran, 30 May-1 Jun 2006. [Ghasemi A](#), Asgari A, Khoshbaten A, Sadidi A. Effect of paraoxon on GABA uptake by rat brain synaptosomes.*
38. *7th Annual Research Congress of Iranian Medical Science Students, Tehran-Iran, 30 May-1 Jun 2006. [Ghasemi A](#), Hedayati M, Khoshbaten A. Evaluation of a simple and rapid method for determination of nitric oxide in microplate.*
39. *The third Congress of Military medicine, Tehran-Iran, 4-6 March 2006. [Ghasemi A](#), Asgari A, Rastegar-farajzadeh A, Rouzbehani AR, Rezaee R. Comparison between Iranian and German NBC clothing on some Physiological parameters of human body.*
40. *The third Congress of Military medicine, Tehran-Iran, 4-6 March 2006. Asgari A, Mehrani H, Ghanei M, [Ghasemi A](#), Rezaee R, Miri R. Effect of exercise on blood and saliva lactate change in the chemically injured and healthy individuals.*
41. *The third Congress of Military medicine, Tehran-Iran, 4-6 March 2006. pourabdolhossein F, [Ghasemi A](#), Shahrroukhi A, Soleymani B, Khoshbaten A, Asgari A. Effect of paraoxon on GABA uptake in cerebellar synaptosomes in rat.*
42. *The third Congress of Military medicine, Tehran-Iran, 4-6 March 2006. Heydari A, Khoshbaten A, Asgari A, Nouroozzadeh A, , [Ghasemi A](#), Najafi s. Effect of lead poisoning on blood pressure and nitric oxide metabolites in rat.*

43. *The 19th world diabetes congress, 3-7 Dec 2006, Cape Town, South Africa. Hadaegh F, [Ghasemi A](#), Harati H, Tohidi M, Saadat N, Zabetian A, Azizi F. Clinical data improve the agreement between the impaired glucose tolerance and dysglycemia with the new criteria of impaired fasting glucose (2006 Diabetes UK, Diabetic Medicine, 23 (Supp. 4).*
44. *17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Zahedi Asl S, Valae F, [Ghasemi A](#). Reversibility of the effect of physical and psychological stress on responsiveness of isolated rat aorta.*
45. *17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Poorabdolhossein F, [Ghasemi A](#), Hosseini M, Shahrokhi A, Soleymani B, Khoshbaten A, Asgari A. Effect of time on lactate dehydrogenase activity in rat cerebellar synaptosomes.*
46. *17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Shafiee M, Zahedi Asl S, Khaksari M, [Ghasemi A](#). Effect of orally administered propylthiouracil in female rats during pregnancy and lactation on the isolated aorta contractility of their adult male offspring.*
47. *17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Najafi Mehri S, Zare Bemani A, Khoshbaten A, [Ghasemi A](#), Tayebi A. Effect of hemodialysis on serum GSH and GST in hemodialysis patients.*
48. *17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. [Ghasemi A](#), Ghanei M, Asgari A, Mehrani H. Measurement of maximum oxygen uptake and maximum heart rate in chemically injured individuals and comparison with predicted values.*
49. *The 3rd National Congress on Prevention and Control of Non-Communicable Disease, 25-27 Nov 2006, Imam Khomeini Hospital, Tehran, Iran. Hadaegh F, [Ghasemi A](#), Harati H, Tohidi M, Saadat N, Zabetian A, Azizi F. Clinical data improve the agreement between the impaired glucose tolerance and dysglycemia with the new criteria of impaired fasting glucose.*
50. *8th Congress of Iranian Society of Pathology, 2nd Congress of Iranian Cancer Association, Tehran, Iran. 2-4 Nov. 2006. Rasoulian b, Akbari HM, Mofid M, Baqeri G, [Ghasemi A](#), Asgari A, Khoshbaten A. Pretreatment with L-arginine protects rat renal tubules from ischemia-reperfusion injury.*
51. *15th International Intensive Care Symposium, Istanbul, Turkey, 12-14 May 2005. Mehri SN, Zaree AB, Khoshbaten A, [Ghasemi A](#), Tayebi A. The hemodialysis effect on glutathione (GSH) and glutathio-s-transferase enzyme (GST) activity in hemodialysis patients.*
52. *18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Zahedi Asl S, [Ghasemi A](#), Saadat N, Azizi F. Cross sectional study of serum nitrite and nitrate concentration in a normal population.*
53. *18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Noursadegh E, [Ghasemi A](#), Azarnia M, Zahedi Asl S. The effects of orally administrated magnesium on isolated aorta contractility in streptozotocin-induced diabetic rats.*
54. *18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Faraji F, Motamedi F, [Ghasemi A](#), Khosravi M, Zahedi Asl S. Inhibitory effect of GABA on glucose-stimulated insulin secretion from isolated pancreatic islets in rat.*
55. *18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Habibi G, [Ghasemi A](#), Pashaei Rad SH, Faraji F, Zahedi Asl S. Osmotic fragility of red blood cells in hyperthyroid rats.*
56. *18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. [Ghasemi A](#), Najafi Mehri S, Shafiee M, Rowghani K. The effect of cool dialysis temperature on hemodynamic parameters and serum nitric oxide levels of diabetic patients.*

57. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Ghani A, Jafari M, Mohammadi M, [Ghasemi A](#), Mahdavi Nasab H, Khoshbaten A, Asgari A. Effects of paraoxon on oxidative stress in rat brain.
58. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. [Ghasemi A](#), Sadidi A, Mohammadi M, Khoshbaten A, Asgari A. Paraoxon decrease maximum GABA uptake in rat brain synaptosomes.
59. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. [Ghasemi A](#), Mohammadi M, Sadidi A, Ghani E, Khoshbaten A, Asgari A. Synaptosomal GABA uptake in human glial tumors.
60. 18th Iranian Congress of Physiology and Pharmacology, Mashhad-Iran, August 26-30, 2007. Poorabdolhossein F, [Ghasemi A](#), Shahroukhi A, Khoshbaten A, Asgari A, Soleimani B. Effects of organophosphate compounds on GABA uptake in rat hippocampus.
61. The first Iranian congress of metabolic syndrome, Tabriz-Iran, June 13-14, 2008. [Ghasemi A](#), Zahedi Asl S, Azizi F. Serum nitric oxide metabolites in subjects with metabolic syndrome. [Oral].
62. 2nd Iranian congress of endocrine & metabolism updates, Isfahan-Iran, 22-24 April 2009. Farahani H, Zahedi-Asl S, [Ghasemi A](#). The effect of neonatal hypothyroidism on carbohydrate metabolism (in vivo) and insulin secretion (in vitro) of islets in adult rats [Poster]
63. 2nd International and 7th National Congress on Quality Improvement in Clinical Laboratories, Tehran-Iran, 20-23 April 2009. [Ghasemi A](#), Zahedi-Asl S, Saidmoradi L, Sarbakhsh P, Azizi F. Reference values of serum nitric oxide metabolites for healthy Iranian subjects [Oral]
64. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Faraji F, [Ghasemi A](#), Motamedi F, Zahediasl S. Paradoxical effects of GABA on glucose-stimulated insulin secretion from isolated islets in rats.
65. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Farzad Hadaegh, Gita Shafiee, [Ghasemi A](#), sarbakhsh P, Azizi F. Impact of metabolic syndrome, diabetes and prediabetes on cardiovascular events: Tehran Lipid and Glucose Study.
66. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Siadmoradi L, [Ghasemi A](#), Zahediasl S, Azizi F. Prevalence of hypo- and hypermagnesemia in an urban population.
67. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. [Ghasemi A](#), Zahediasl S, Azizi F. Serum nitric oxide metabolites and clustering of metabolic syndrome components in pediatrics: an explanatory factor analysis.
68. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Tohidi M, [Ghasemi A](#), Hadaegh F, Arbabi S, Hosseini F. Increased intra-erythrocyte magnesium is associated with gamma-glutamyl transferase in obese children.
69. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Farahani H, Zahediasl S, [Ghasemi A](#). The effect of fetal hypothyroidism on carbohydrate metabolism during adulthood in rats.
70. 11th European Congress of Endocrinology, Istanbul, Turkey, 25-29 April 2009. Zahediasl S, Farahani H, [Ghasemi A](#), Faraji F, Manaheji H. The effect of gestational hypothyroidism on insulin secretion from isolated islets of adult offspring in male rats.

Reviewer for Journals

1. Iranian Journal of Endocrinology and Metabolism [Persian]
2. International Journal of Endocrinology and Metabolism [English]

3. *Dialysis Therapeutic and Apheresis [English]*
4. *Human Psychopharmacology: Clinical and Experimental [English]*
5. *Journal of Research in Medical Sciences [English]*
6. *Free Radical Biology and Medicine [English]*
7. *Pajooresh Dar Pezeshki [Persian]*
8. *Nitric Oxide [English]*
9. *Acta physiologica [English]*
10. *Experimental Physiology [English]*
11. *CELLULAR PHYSIOLOGY AND BIOCHEMISTRY [English]*
12. *Gene [English]*

AWARDS

1. *Young Researcher Award. 16th Iranian Congresses of Physiology and Pharmacology. Tehran- Iran, May 9-13, 2003.*
2. *Research faculty member acknowledged for excellence in research, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2008.*

MEMBERSHIPS AND HONORS

1. *Membership of Iranian Society of Physiology and Pharmacology*
2. *Membership of Iranian Society of Nursing*
3. *1st honours in high school*
4. *1st honours during undergraduate course*
5. *Ranked 1st in the nationwide entrance examination (M.Sc.) of all universities in IRAN, in 1999, when seeking admission for postgraduate course in Physiology*
6. *1st honours when graduated in Physiology (MSc. and Ph.D.)*

TEACHING

1. *Teaching Medical Physiology to B.Sc., M.Sc., and Ph.D. students*
2. *Teaching Scientific writing*
3. *Teaching SPSS*

TRAINING

1. *Participation in pregress workshop of **Development Neuroscience** at Tarbiat Modares University (TMU) By Prof. Nicholls. May 9, 2003, Tehran-Iran.*
2. *Member of executive committee in the 7th International Congress of **Endocrine Disorders**, 8-11 October, 2004, Tehran, Iran*
3. *Participation in International educational workshop on **molecular Biotechnology**, Tehran, Iran (2005)*
4. *Participation in **Grant-Writing Workshop** held by Endocrine research Center and cooperation of James Hogg iCAPTURE Center of cardiovascular and pulmonary research on May 11-19, 2005 in Tehran, Iran*
5. *Participation in **SPSS workshop** held by Shahid Beheshti University (M.C), May 2006.*

APPOINTMENTS

1. *Senior supervisor of Bo-Ali hospital (Tehran, Iran), 2001-2003*
2. *Researcher in Endocrine Research Centre (Tehran, Iran), 2004-2007*
3. *Assistant professor in Research Institute for Endocrine Sciences, from 2008*
4. *Executive manager of Iranian Physiology and Pharmacology letters, 2004-2007.*

5. *Editorial Board of Nursing Journal, Shahid Beheshti University (M.C) 2003-2005.*

PROJECT

Finished

1. *Serum nitric oxide metabolites and clustering of metabolic syndrome components in children: Tehran Lipid and Glucose Study, 2009*
2. *Association between metabolic syndrome and serum magnesium levels in elderly subjects: Tehran Lipid and Glucose Study, 2009*
3. *Physiological responses to thermal environment wearing protective NBC clothes. 2004-2005.*
4. *Effect of Paraoxon on [³H]GABA uptake in isolated synaptosomes from rat cortex. 2006-2007.*
5. *Effect of orally administration of magnesium on contractility of isolated aorta in rat 2006-2008.*
6. *Effect of ramiprillat on UCP2 and YCP3 expression in HUVEC cells 2007.*

In progress

1. *Effect of Vitamin D on UCP-2 expression of rat Islets*

TECHNIQUES

1. *HPLC (High Performance Liquid Chromatography)*
2. *Laboratory measurement using Specterophotometry and ELISA methods*
3. *DNA extraction*
4. *PCR, RTPCR, Real Time PCR and Electrophoresis*
5. *Western Blotting*
6. *Isolated tissue (Aorta) preparation and work with Physiograph*
7. *Isolation of islets from rat Langerhans.*
8. *Superfusion technique (using brain synaptosomes for studying neurotransmitters release and uptake)*
9. *Setting and measurement of serum nitric oxide metabolites (NO_x) by Griess reaction*
10. *Study with animal models including type 1 and type 2 diabetes*
11. *Measurement of magnesium and zinc by atomic absorption spectrophotometry*