



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

1. 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. 11th edition. Translation by: [Ghasemi A](#), Mohammadi M. 2009, Khosravi Publisher. ISBN: 978-964-8565-76-8.*
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. 2012, Khosravi Publisher. ISBN: 978-600-209-072-0*
12. *Questions of Physiology for clinical biochemistry Ph.D. course. [Ghasemi A](#), 2012, Dr. Khalili Publisher. ISBN: 978-600-6223-24-7.*

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. Bahadoran Z, Mirmiran P, Kashfi Kh, [Ghasemi A](#)*: Lost-in-Translation of Metabolic Effects of Inorganic Nitrate in Type 2 Diabetes: Is Ascorbic Acid the Answer? *Int J Mol Sci*. 2021 Apr 29;22(9):4735. doi: 10.3390/ijms22094735.
2. Bahadoran Z, Mirmiran P, Kashfi Kh, [Ghasemi A](#)*: Scientific Publishing in Biomedicine: How to Choose a Journal? *Int J Endocrinol Metab*. Volume 19, Issue 1, January 2021, Article number e108417. doi: 10.5812/ijem.108417.
3. Afzali H, Khaksari M, Jeddi S, Kashfi Kh, Abdollahifar M-A*, [Ghasemi A](#)*: Acidified Nitrite Accelerates Wound Healing in Type 2 Diabetic Male Rats: A Histological and Stereological Evaluation. *Molecules* . 2021 Mar 26;26(7):1872. doi: 10.3390/molecules26071872.
4. [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.
5. Mirmiran P, Gaeini Z, Bahadoran Z*, [Ghasemi A](#), Norouzirad R, Tohidi M, Azizi F: Urinary sodium-to-potassium ratio: a simple and useful indicator of diet quality in population-based studies. *European journal of medical research*. 2020 Dec 16;107:58-65. doi: 10.1016/j.niox.2020.12.005.
6. Bahadoran Z, Norouzirad R, Mirmiran P, Gaeini Z, Jeddi S, Shokri M, Azizi F, [Ghasemi A](#)*: Effect of inorganic nitrate on metabolic parameters in patients with type 2 diabetes: A 24-week randomized double-blind placebo-controlled clinical trial. *Nitric Oxide*. 2020 Dec 16; S1089-8603(20)30216-0. doi: 10.1016/j.niox.2020.12.005.
7. Jeddi S, Gheibi S, Carlström M, Kashfi K*, [Ghasemi A](#)*: Long-term co-administration of sodium nitrite and sodium hydrosulfide inhibits hepatic gluconeogenesis in male type 2 diabetic rats: Role of PI3K-Akt-eNOS pathway. *Life Sci* . 2020 Nov 16;118770. doi: 10.1016/j.lfs.2020.118770.
8. Jeddi S, Khalifi S, Ghanbari M, [Ghasemi A](#)*: Effect of Fetal and Neonatal Hypothyroidism on Glucose Tolerance in Middle-Aged Female Rats. *Endocr Metab Immune Disord Drug Targets* . 2020 Nov 8. doi: 10.2174/1871530320666201109113903.
9. Bahadoran Z, Mirmiran P, Kashfi K, [Ghasemi A](#)*: Endogenous flux of nitric oxide: Citrulline is preferred to Arginine. *Acta Physiol (Oxf)* . 2020 Oct 22;e13572. doi: 10.1111/apha.13572.
10. Jeddi S, Yousefzadeh N, Afzali H, [Ghasemi A](#)*: Long-term nitrate administration increases expression of browning genes in epididymal adipose tissue of male type 2 diabetic rats. *Gene*. 2020 Sep 17;145155. doi: 10.1016/j.gene.2020.145155.
11. 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, Article number e108510.
12. Gheibi S, [Ghasemi A](#)*: INSULIN SECRETION: THE NITRIC OXIDE CONTROVERSY. *EXCLI Journal*. 2020;19:1227-1245 – ISSN 1611-2156

13. Yousefzadeh N, Jeddi S, [Ghasemi A*](#): Impaired Cardiovascular Function in Male Rats with Hypo- and Hyperthyroidism: Involvement of Imbalanced Nitric Oxide Synthase Levels. **Endocrine, metabolic & immune disorders drug targets**. 2020 May 8. doi: 10.2174/1871530320666200508115543.
14. Bahadoran Z, Mirmiran P, Kashfi kh, [Ghasemi A*](#): Importance of Systematic Reviews and Meta-analyses of Animal Studies: Challenges for Animal-to-Human Translation. **Journal of the American Association for Laboratory Animal Science**. 2020 Jul 29. doi: 10.30802/AALAS-JAALAS-19-000139.
15. 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**. 2020 Aug 13. doi: 10.2174/1871530320666200813135251.
16. Bahadoran Z, Mirmiran P, Kashfi K, [Ghasemi A*](#): The Principles of Biomedical Scientific Writing: Citation. **INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM**. 2020 Apr 27; 18(2):e102622. doi: 10.5812/ijem.102622.
17. Afzali H, Khaksari M, Norouzirad R, Jeddi S, Kashfi Kh, [Ghasemi A*](#): Acidified nitrite improves wound healing in type 2 diabetic rats: Role of oxidative stress and inflammation. **Nitric Oxide - Biology and Chemistry**. 2020 Jul 18;S1089-8603(20)30168-3. doi: 10.1016/j.niox.2020.07.001
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19. Jeddi S, Gheibi S, Kashfi K, Carlström M, [Ghasemi A*](#): Protective Effect of Intermediate Doses of Hydrogen Sulfide Against Myocardial Ischemia-Reperfusion Injury in Obese Type 2 Diabetic Rats. **Life Sciences**, Volume 256, 1 September 2020, Article number 117855. DOI: 10.1016/j.lfs.2020.117855.
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21. Bahadoran Z, Mirmiran P, Kashfi K, [Ghasemi A*](#): The principles of biomedical scientific writing: Abstract and keywords. **INTERNATIONAL JOURNAL OF ENDOCRINOLOGY AND METABOLISM**, Volume 18, Issue 1, 1 January 2020, Article number e100159, doi: 10.5812/ijem.100159.
22. Mohammadi F, Ahmadi-Zeidabadi M, Nazeri M, [Ghasemi A](#), Shabani M*: Nitric oxide modulates cognitive, nociceptive and motor functions in a rat model of empathy. **The International journal of neuroscience**, 2020.
23. Yousefzadeh N, Kashfi Kh, Jeddi S*, [Ghasem, A](#): Ovariectomized rat model of osteoporosis: A practical guide. **EXCLI Journal**, Volume 19, 2020, Pages 89-107, doi: 10.17179/excli2019-1990.

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25. Bahadoran Z, Carlström M, Mirmiran P, [Ghasemi A*](#): Nitric oxide: to be or not to be an endocrine hormone? *Acta physiologica*, Volume 229, Issue 1, 1 May 2020, Article number e13443.
26. Bahadoran Z, Mirmiran P, [Ghasemi A*](#): Role of Nitric Oxide in Insulin Secretion and Glucose Metabolism. *Trends Endocrinol Metab*. Volume 31, Issue 2, February 2020, Pages 118-130, doi: 10.1016/j.tem.2019.10.001.
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49. Bahadoran Z, Mirmiran P, Jeddi S, Momenan AA, Azizi F, **Ghasemi A***: The Nitrate-Nitrite-Nitric Oxide Pathway: Findings from 20 Years of the Tehran Lipid and Glucose Study. **Int J Endocrinol Metab**. 2018 Oct 14;16(4 Suppl):e84775. doi: 10.5812/ijem.84775.
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4. Abstracts

1. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. [Asghar Ghasemi](#). The role of nitric oxide in pathophysiology of type 2 diabetes.
2. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. [Asghar Ghasemi](#), Sevda Gheibi, Sajad Jeddi, Mattias Carlström, Khosrow Kashfi. Co-administration effects of nitrite and sodium hydrosulfide on oxidative stress in type 2 diabetic rats.
3. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Sajad Jeddi, Sevda Gheibi, Khosrow Kashfi, Mattias Carlström, Khosrow Kashfi, [Asghar Ghasemi](#). Effects of long-term administration of different doses of hydrogen sulfide on myocardial ischemia-reperfusion injury in male Wistar rats.
4. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Reza Norouzirad, Pedro González-Muniesa, Mahboubeh Ghanbari, Sajad Jeddi, [Asghar Ghasemi](#). Normobaric oxygen therapy improves glucose metabolism in obese male rats.

5. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Majid Shokri, Hassan Faridnouri, Vajiheh Khorasani, Sajad Jeddi, [Asghar Ghasemi](#). Effect of long-term nitrate administration on protein levels of nitric oxide-producing enzymes in liver, adipose tissue, and skeletal muscle in type 2 diabetic male rats.
6. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Nasibeh Yousefzadeh, Khosrow Kashfi, Sajad Jeddi, [Asghar Ghasemi](#). Ovariectomized rat model of osteoporosis: A practical guide.
7. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Mahboubeh Ghanbari, Sajad Jeddi, Reza Norouzirad, [Asghar Ghasemi](#). Contribution of nitric oxide synthases in impaired cardiac function in male rats with transient congenital hypothyroidism.
8. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Afzali Hamideh, Norouzirad Reza, Khaksari Mohammad, [Ghasemi Asghar](#). Effect of topical nitrite administration on excisional wound healing in type 2 diabetic male rats.
9. 24th Iranian & 3rd International Congress of Physiology and Pharmacology 30 Oct – 01 Nov 2019. Roghaieh Samadi, Sajad Jeddi, [Asghar Ghasemi](#). Effect of hypothyroidism on protein levels of nitric oxide-producing enzymes in cardiovascular system in male rats.
10. The 21st International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants Paris, France June 20-21, 2019. [Ghasemi A](#), Norouzirad R, González-Muniesa P, Jeddi S. DIETARY INORGANIC NITRATE ATTENUATES HYPEROXIA-INDUCED OXIDATIVE STRESS IN OBESE TYPE 2 DIABETIC MALE RATS.
11. 12th International Congress on Endocrine Disorders 14-16 November, 2018. Jeddi Sajad , Gheibi Sevda· [Ghasemi Asghar](#). Inverse association between blood pressure and circulating hydrogen sulfide in hyperthyroid rats.
12. 12th International Congress on Endocrine Disorders 14-16 November, 2018. Norouzirad Reza · Ghanbari Mahboubeh · Gholami Hanieh · Jeddi Sajad · [Ghasemi A](#). Normobaric oxygen therapy (NBOT) improves glucose metabolism in type 2 diabetic rats.
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14. The 6th Seoul International Congress of Endocrinology and Metabolism, (SICEM 2018) April 19- 22. [Ghasemi A](#), Mirmiran P, Bahadoran Z, Tahmasebi Nejad Zh, Azizi F. Nitric Oxide Metabolites and risk of type 2 Diabetes, Hypertension and cancer: A prospective Approach in the Tehran Lipid and Glucose Study.
15. Therapeutic applications of nitric oxide in cancer and inflammatory – related Disorders Accademia dei Fisiocritici (Siena) October 4-5, 2018. [Ghasemi A](#), Gheibi S, Jeddi S, Gholami H. Effects of long-term nitrate supplementation on gene expressions of GLUT2, GLUT4 and glucokinase in male obese type 2 diabetic rats.
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18. *2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Iran, Chabahar, 15-18 Feb. 2018. Mahboubeh Ghanbari * , Sajad jeddi , Reza Norouzirad , Fatemeh Bagheri puor , [Ghasemi A](#). Increase of cardiac nitric oxide contributes in reduced cardiac function in male rats with fetal hypothyroidism .*
19. *2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Iran, Chabahar, 15-18 Feb. 2018. Fatemeh Bakhtiarzadeh * , miss Sevda Gheibi , [Ghasemi A](#). Effects of long-term sodium nitrate administration on obesity indices, lipid profile, and thyroid hormones in female rats.*
20. *2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Iran, Chabahar, 15-18 Feb. 2018. Farzaneh Faraji Shahrivar * . Miss Mahbobeh Ghanbari , Miss Haniyeh Gholami , [Ghasemi A](#). The electrocardiogram changes in young and aged congenital hypothyroid male rats.*
21. *2nd International and 23rd Iranian Congress of Physiology and Pharmacology, Iran, Chabahar, 15-18 Feb. 2018. [Ghasemi A*](#) , Sajad Jeddi , Mattias Carlström , Sevda Gheibi Effects of long-term nitrate supplementation on carbohydrate metabolism, lipid profiles, oxidative stress, and inflammation in male obese type 2 diabetic rats.*
22. *10th Asia Pacific Conference on Clinical Nutrition Adelaide Convention Center, South Australia, 26-29 Nov 2017. [Ghasemi A](#). Nitrate improves carbohydrate metabolism by increasing GLUT4 in insulin-Sensitive tissues in obese type 2 diabetic rats..*
23. *10th Asia Pacific Conference on Clinical Nutrition Adelaide Convention Center, South Australia, 26-29 Nov 2017. [Ghasemi A*](#), Sajad Jeddi. Anti-obesity and anti-diabetic effects of nitrate and nitrite.*
24. *European Obesity Summit (EOS)- Joint Congress of EASO and IFSO-EC. June 1-4, 2016 Gothenburg, Sweden. Bahadoran Z, Mirmiran P, [Gasemi A](#), Azizi F. Nitric Oxide production could predict visceral adiposity dysfunction in adults: A prospective approach in Tehran Lipid and Glucose Study.*
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27. *16th Iranian Congress of Physiology and Pharmacology, Tehran- Iran, May 9-13, 2003, [Ghasemi A](#), Kadkhodae M, Gharibzadeh Sh, Shams S, Gol A, Makki N. Changes of plasma and renal vitamin E levels in LPS-treated rats.*
28. *16th Iranian Congress of Physiology and Pharmacology, Tehran- Iran, May 9-13, 2003, Pirmoradi L, Kadkhodae M, [Ghasemi A](#), Shams S. Protective effects of coadministration of ascorbic acid and L-NIL on rat LPS- nephrotoxicity.*
29. *Free Radical Research 8-11 July 2005, De Vere Belfry Hotel, West Midland, UK. Najafi Mehri S, Zaree AB, Khoshbaten A, [Ghasemi A](#), Tayebi A. The hemodilysis effect on glutathione (GSH) and glutathione-s transferase (GST) activity in hemodialysis patients.*
30. *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.*

31. 13th Asia-Oceania Congress of Endocrinology, Tehran-Iran, May 10-12, 2006. Shafiee M, Zahedi Asl S, Khaksari M, [Ghasemi A](#). Effect of oral administration of propylthiouracil during pregnancy and lactation on the hypothalamic-pituitary-thyroid axis of adulthood rat offspring.
32. 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.
33. 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.
34. 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.
35. 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.
36. 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.
37. 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.
38. The third Congress of Military medicine, Tehran-Iran, 4-6 March 2006. pourabdolhossein F, [Ghasemi A](#), Shahroukhi A, Soleymani B, Khoshbaten A, Asgari A. Effect of paraoxon on GABA uptake in cerebellar synaptosomes in rat.
39. 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.
40. 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).
41. 17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Zahedi Asl S, Valaee F, [Ghasemi A](#). Reversibility of the effect of physical and psychological stress on responsiveness of isolated rat aorta.
42. 17th Iranian Congress of Physiology and Pharmacology, 1-4 Oct 2005, Kerman, Iran. Poorabdolhossein F, [Ghasemi A](#), Hosseini M, Shahrokhii A, Soleymani B, Khoshbaten A, Asgari A. Effect of time on lactate dehydrogenase activity in rat cerebellar synaptosomes.
43. 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.
44. 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.
45. 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.
46. 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.

47. 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.
48. 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.
49. 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.
50. 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.
51. 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.
52. 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.
53. 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.
54. 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.
55. 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.
56. 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.
57. 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.
58. 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].
59. 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]
60. 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]

61. 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.
62. 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.
63. 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.
64. 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.
65. 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.
66. 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.
67. 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. Pajoohesh Dar Pezeshki [Persian]
8. Nitric Oxide [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*