

**Asghar Ghasemi, PhD.**  
**Advisor, Endocrine Physiology Research Center**  
**Associate Professor of Medical Physiology**



**Born**                      **24 Dec 1973**  
Tehran, Iran

- |                                    |   |
|------------------------------------|---|
| <b>B.Sc. in Nursing:</b>           | • Isfahan University of Medical Sciences, Isfahan, Iran. 1992-1996  |
| <b>M.Sc. in Medical Physiology</b> | • Tehran University of Medical Science, Tehran, Iran. 1999-2001     |
| <b>Ph.D. in Medical Physiology</b> | • Baqiyatallah Medical Sciences University, Tehran, Iran. 2001-2006 |

- |                            |  |
|----------------------------|--|
| <b>Academic Positions:</b> | • Membership of Iranian Society of Physiology and Pharmacology |
|                            | • Membership of Iranian Society of Nursing                     |

- |                             |   |
|-----------------------------|---|
| <b>Teaching Activities:</b> | • Teaching Medical Physiology to B.Sc., M.Sc., and Ph.D. students |
|                             | • Teaching Scientific writing                                     |
|                             | • Teaching SPSS   |

- |                               |  |
|-------------------------------|--|
| <b>Successes in academic:</b> | • 1 <sup>st</sup> honours in high school   |
|                               | • 1 <sup>st</sup> honours during undergraduate course  |
|                               | • Ranked 1 <sup>st</sup> in the nationwide entrance examination (M.Sc.) of all universities in IRAN, in 1999, when seeking admission for postgraduate course in Physiology |
|                               | • 1 <sup>st</sup> honours when graduated in Physiology (MSc. and Ph.D.)  |
|                               | • Young Researcher Award. 16th Iranian Congresses of Physiology and Pharmacology. Tehran- Iran, May 9-13, 2003.  |
|                               | • Research faculty member acknowledged for excellence in research, Shahid Beheshti University of Medical Sciences, Tehran, Iran, 2008.                                     |

## Papers in International Journals

1. Bagheripour F, Ghanbari M, Zahediasl S, [Ghasemi A](#) Comparison of the effects of fetal hypothyroidism on glucose tolerance in male and female rat offspring. *The Journal of Physiological Sciences* 1-7.
2. Zaman J, Jeddi S, [Ghasemi A](#) (2014) The Effects of Ischemic Postconditioning on Myocardial Function and Nitric Oxide Metabolites Following Ischemia-Reperfusion in Hyperthyroid Rats. *The Korean Journal of Physiology & Pharmacology* 18:481-487.
3. MEHRAZIN, F., [GHASEMI, A.](#) & ZAHEDIASL, S. 2014. Nitrate/L-arginine Therapy and Nitric Oxide Levels in the Stomach and Liver of Rats. *Zahedan Journal of Research in Medical Sciences*, 0-0.
4. Jeddi S, Zaman J, [Ghasemi A](#) (2014) Effects of Ischemic Postconditioning on the Hemodynamic Parameters and Heart Nitric Oxide Levels of Hypothyroid Rats. *Arquivos brasileiros de cardiologia* 00-00.
5. TEHRANI, F. R., BEHBOUDI-GANDEVANI, S., [GHASEMI, A.](#) & AZIZI, F. 2015. Menopause status as the main factor explaining the gender differences of serum nitric oxide concentrations in middle-aged population. *Archives of gynecology and obstetrics*, 291, 159-163.
6. Jeddi S, Syedmoradi L, Bagheripour F, [Ghasemi A](#). The Effects of Vitamin D on Insulin Release From Isolated Islets of Rats. *Int J Endocrinol Metab* 2015;13(1):e20620.
7. Jeddi S, Syedmoradi L, Bagheripour F, [Ghasemi A](#) (2015) The Effects of Vitamin D on Insulin Release From Isolated Islets of Rats. *Int J Endocrinol Metab* 13:e20620.
8. Khalifi S, Rahimipour A, Jeddi S, Ghanbari M, Kazerouni F, [Ghasemi A](#) (2015) Dietary nitrate improves glucose tolerance and lipid profile in an animal model of hyperglycemia. *Nitric Oxide* 44:24-30.
9. Godini A, [Ghasemi A](#), Karbalaei N, Zahediasl S. The Effect of Thyroidectomy and Propylthiouracil-Induced Hypothyroidism on Insulin Secretion in Male Rats. *Horm Metab Res* 2014.
10. Karbalaei N, Ghasemi A, Hedayati M, Godini A, Zahediasl S. The possible mechanisms by which maternal hypothyroidism impairs insulin secretion in adult male offspring in rats. *Exp Physiol* 2014;99:701-14.
11. [Ghasemi A](#), Zahediasl S, Hosseini-Esfahani F, Azizi F. Gender differences in the relationship between serum zinc concentration and metabolic syndrome. *Ann Hum Biol* 2014.
12. Tohidi M, [Ghasemi A](#), Hadaegh F, Derakhshan A, Chary A, Azizi F. Age- and sex-specific reference values for fasting serum insulin levels and insulin resistance/sensitivity indices in healthy Iranian adults: Tehran Lipid and Glucose Study. *Clin Biochem* 2014;47:432-8.
13. [Ghasemi, A.](#), S. Zahediasl, and F. Azizi, Elevated nitric oxide metabolites are associated with obesity in women. *Arch Iran Med*, 2013. 16(9): p. 521-5.
14. Ramezani Tehrani F, Noroozadeh M, Zahediasl S, [Ghasemi A](#), Piryaei A, Azizi F. Prenatal testosterone exposure worsen the reproductive performance of male rat at adulthood. *PLoS One* 2013;8:e71705.
15. [Ghasemi A](#), Zahediasl S. Potential therapeutic effects of nitrate/nitrite and type 2 diabetes mellitus. *Int J Endocrinol Metab* 2013;11:63-4.

16. [Ghasemi A](#), Mehrazin F, Zahediasl S. Effect of nitrate and L-arginine therapy on nitric oxide levels in serum, heart, and aorta of fetal hypothyroid rats. *J Physiol Biochem* 2013;69:751-9.
17. Karbalaee N, [Ghasemi A](#), Faraji F, Zahediasl S. Comparison of the effect of maternal hypothyroidism on carbohydrate metabolism in young and aged male offspring in rats. *Scand J Clin Lab Invest* 2013;73:87-94.
18. Ghasemi A, Zahediasl S, Azizi F. High serum nitric oxide metabolites and incident metabolic syndrome. *Scand J Clin Lab Invest* 2012;72:523-30.
19. [Ghasemi A](#), Faraji F, Valaee F, Sedaghat K, Arabian M, Zahediasl S. Diminished Response of Isolated Aorta Following Chronic Physical and Psychological Stresses and its Reversibility in Rats. *International Journal of Endocrinology and Metabolism*. 2012;10(1): 423-428. DOI: 10.5812/ijem.4062
20. Ghasemi A, Zahediasl S, Hosseini-Esfahani F, Syedmoradi L, Azizi F. Pediatric reference values for serum zinc concentration in Iranian subjects and an assessment of their dietary zinc intakes. *Clinical Biochemistry*; 2012; 45(15):1254-6. doi: 10.1016/j.clinbiochem.2012.07.086
21. [Ghasemi A](#), Zahediasl S. Preanalytical and analytical considerations for measuring nitric oxide metabolites in serum or plasma using the Griess method. *Clinical Laboratory*. 2012; 58(7-8):615-24. PMID:22997962 [Review].
22. [Ghasemi A](#), Zahediasl S, Hosseini-Esfahani F, Azizi F. Reference Values for Serum Zinc Concentration and Prevalence of Zinc Deficiency in Adult Iranian Subjects. *Biol Trace Elem Res*. 2012; 149(3):307-14. doi: 10.1007/s12011-012-9445-2
23. Farahani H, [Ghasemi A](#), Roghani M, Zahediasl S. Effect of Neonatal Hypothyroidism on Carbohydrate Metabolism, Insulin Secretion and Pancreatic Islets. *Journal of Endocrinological Investigation*. 2012 [in press].
24. [Ghasemi A](#), Zahediasl S. Normality Tests for Statistical Analysis: A Guide for Non-Statisticians. *International Journal of Endocrinology and Metabolism* 2012;10(2):486-489. DOI: 10.5812/ijem.3505
25. [Ghasemi A](#), Zahediasl S, Azizi F. High serum nitric oxide metabolites and incident metabolic syndrome. *Scandinavian Journal of Clinical and Laboratory Investigation*. 2012; 72(7):523-30. doi: 10.3109/00365513.2012.701322
26. [Ghasemi A](#), Zahediasl S. Is nitric oxide a hormone? *Iranian Biomedical Journal*. 2011 Jul;15(3):59-65. [Review]
27. [Ghasemi A](#), Zahediasl S, Azimzadeh I, Azizi F. Increased serum nitric oxide metabolites in dysglycaemia. *Annals of Human Biology* 2011;38(5):577-82.
28. Faraji F, [Ghasemi A](#), Motamedi F, Zahediasl S. Time-dependent effect of GABA on glucose-stimulated insulin secretion from isolated islets in rat. *The Scandinavian Journal of Clinical & Laboratory Investigation*. 2011 Oct;71(6):462-6.
29. Tohidi M, [Ghasemi A](#), Hadaeigh F, Arbabi S, Hosseini Isfahani F. Intra-erythrocyte Magnesium Is Associated with Gamma-Glutamyl Transferase in Obese Children and Adolescents. *Biol Trace Elem Res*. 2011;143(2):835-43.

30. [Ghasemi A](#), Zahediasl S, Azizi F. Reference values for fasting serum glucose levels in healthy Iranian adult subjects. *Clinical Laboratory*. 2011;57(5-6):343-9.
31. Saidpour A, Zahediasl S, Kimiagar M, Vafa, M, [Ghasemi A](#), Abadi A, Daneshpour MS, Zarkesh M. Fish oil and olive oil can modify insulin resistance and plasma desacyl-ghrelin in rats. *J Res Med Sci* 2011; 16(7): 862-871.
32. [Ghasemi A](#), Zahediasl S, Azizi F. Reference values for serum nitric oxide metabolites in pediatrics. *Nitric Oxide*. 2010; 23: 264-8.
33. Farahani H, [Ghasemi A](#), Zahediasl S. The effect of maternal hypothyroidism on the carbohydrate metabolism and insulin secretion of isolated islets in adult offspring in male rats. *Hormone Metabolic Research*. 2010;42(11):792-7.
34. [Ghasemi A](#), Syedmoradi L, Zahediasl S, Azizi F. Pediatric reference values for serum magnesium levels in Iranian subjects. *The Scandinavian Journal of Clinical & Laboratory Investigation*. 2010;70(6):415-20.
35. [Ghasemi A](#), Zahediasl S, Syedmoradi L, Azizi F. Association between serum nitric oxide metabolites and hypertension in a general population. *International Angiology*. 2010; [in press].
36. [Ghasemi A](#), Syedmoradi L, Momenan AA, Zahediasl S, Azizi F. The influence of cigarette and qalyan (hookah) smoking on serum nitric oxide metabolite concentration. *The Scandinavian Journal of Clinical & Laboratory Investigation*. 2010;70(2):116-21.
37. Rasoulilian B, Jafari M, Mahbod M, Dehaj ME, Nowrozi M, Wahhabaghahi H, Mofid M, [Ghasemi A](#), Bigdeli MR, Khoshbaten A. Pretreatment with oxygen protects rat kidney from cisplatin nephrotoxicity. *Renal Failure*. 2010;32(2):234-42.
38. [Ghasemi A](#), Zahediasl S, Azizi F. Reference Values for Serum Magnesium Levels in Young Adult Iranian Subjects. *Biological Trace Element Research*. 2010;138(1-3):99-106.
39. Syedmoradi L, [Ghasemi A](#), Zahediasl S, Azizi F. Prevalence of hypo- and hypermagnesemia in an Iranian urban population. *Annals of Human Biology*. 2010. [in press]
40. Hadaegh F, Shafiee G, [Ghasemi A](#), Sarbakhsh P, Azizi F. Impact of metabolic syndrome, diabetes and prediabetes on cardiovascular events: Tehran Lipid and Glucose Study. *Diabetes Research and Clinical Practice*. 2010;87(3):342-7.
41. [Ghasemi A](#), Zahediasl S, Azizi F. Reference values for serum nitric oxide metabolites in an adult population. *Clinical Biochemistry*, 2010; 43(1-2):89-94.
42. [Ghasemi A](#), Zahediasl S, Azizi F. Nitric oxide and clustering of metabolic syndrome components in pediatrics. *European Journal of Epidemiology*, 2010;25(1):45-53.
43. [Ghasemi A](#), Zahediasl S, Seyedmoradi L, Azizi F. Low serum magnesium levels in elderly subjects with metabolic syndrome. *Biological Trace Element Research*, 2010;136(1):18-25.
44. Khaksari M, Shafiee M, [Ghasemi A](#), Zahedi Asl S. Effect of orally administered propylthiouracil in female rats, during pregnancy and lactation, on the isolated aorta contractility of their adult male offspring. *Medical Science Monitor*, 2009; 15 (4): BR 123-7.
45. Hadaegh F, Zabetian A, Tohidi M, [Ghasemi A](#), Sheikholeslami F, Azizi F. Prevalence of Metabolic Syndrome by the ATP III, IDF and WHO Definitions and their Association to Coronary Heart Disease in Elderly Iranian population. *Ann Acad Med Singapore*, 2009; 38: 142-149.

46. Hadaegh F, Khalili D, [Ghasemi A](#), Tohidi M, Sheikholeslami F, Azizi F. Triglyceride/HDL-cholesterol ratio is an independent predictor for coronary heart disease in Iranian men population. *Nutrition Metabolism & Cardiovascular Disease*, 2009; 19: 401-408.
47. Zahedi-Asl S, Brojeni NK, [Ghasemi A](#), Faraji F, Hedayati M, Azizi F. Alterations in osmotic fragility of the red blood cells in hypo- and hyperthyroid patients. *J Endocrinol Invest*, 2009;32(1):28-32.
48. 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. *Toxicology In Vitro*, 2009; 23: 868-873.
49. [Ghasemi A](#), Zahedi Asl S, Mehrabi Y, Saadat N, Azizi F. Serum nitric oxide metabolites in a general healthy population: relation to sex and age. *Life Sciences*, 2008; 83: 326-331.
50. Zahedi Asl S, [Ghasemi A](#), Azizi F. Serum nitric oxide metabolites in subjects with metabolic syndrome. *Clinical Biochemistry*, 2008; 41: 1342-1347.
51. Hadaegh F, Bozorgmanesh MR, [Ghasemi A](#), Harati H, Saadat N, Azizi F. High prevalence of undiagnosed diabetes and abnormal glucose tolerance in the Iranian urban population: Tehran Lipid and Glucose Study. *BMC Public Health*, 2008;8:176.
52. Mohammadi M, Ghani E, [Ghasemi A](#), Khoshbaten A, Asgari A. Synaptosomal GABA uptake decreases in paraoxon-treated rat brain. *Toxicology*. 2008; 244(1): 42-48.
53. Hadaegh F, [Ghasemi A](#), Padyab M, Tohidi M, Azizi F. The metabolic syndrome and incident diabetes: Assessment of alternative definitions of the metabolic syndrome in an Iranian urban population. *Diabetes Research and Clinical Practice*. 2008 ;80(2):328-34.
54. Rasoulilian B, Mohammadhosseniakbari M Kadkhodae M, Mofid M, Baqeri G, Bigdeli MR, [Ghasemi A](#), Mohebbi HA, Asgari A, Khoshbaten A. Preconditioning with Oxygen Attenuates Rat Renal Ischemia–Reperfusion Injury. *Journal of Surgical Research*. 2008; 146(2):282-288.
55. Hadaegh F, Harati H, [Ghasemi A](#), Tohidi M, Zabetian A, Padyab M, Azizi F. Using common clinical data improves the agreement between the new criteria of impaired fasting glucose and abnormal glucose tolerance. *Diabetes Research and Clinical Practice*. 2007; 77: 459-464.
56. [Ghasemi A](#), Shafiee M, Rowghani K. Stabilizing effects of cool dialysate temperature on hemodynamic parameters in diabetic patients undergoing hemodialysis. *Saudi Journal of Kidney Disease and Transplantation*. 2008; 19(3): 378- 383.
57. [Ghasemi A](#), Sadidi A, Mohammadi M, Khoshbaten A, Asgari A. Paraoxon inhibites GABA uptake in rat brain synaptosomes. *Toxicology in Vitro*. 2007; 21: 1499-1504.
58. [Ghasemi A](#), Hedayati M, Biabani H. Protein precipitation methods evaluated for determination of serum nitric oxide end products by the Griess assay. *Journal of Medical Sciences Research*. 2007; 1(2): 43-46.
59. Shahroukhi A, [Ghasemi A](#), Poorabdolhossein F, Asgari A, Khoshbaten A. The effect of paraoxon on GABA uptake in rat cerebellar synaptosomes. *Medical Science Monitor*, 2007;13(9): BR1-BR6.
60. Zahedi Asl S, Farahnaz S, [Ghasemi A](#), Zaree B. The effect of carbon tetrachloride extract of *Trigonella foenum graecum* seeds on glycogen content of liver in streptozotocin-induced diabetic rats. *International Journal of Endocrinology and Metabolism*. 2007; 2: 70-75.
61. Najafi Mehri, S, Khoshnevis, MA, Zarrehbinan, F Hafezi S, [Ghasemi](#), A, Ebadi A. Effect of Treadmill Exercise Training on VO2 Peak in Chronic Obstructive Pulmonary Disease. *Tanaffos*, 2007; 6: 18-24.

62. Heydari A, Norouzzadeh A, Khoshbaten A, Asgari A, [Ghasemi A](#), Najafi S, Badalzadeh R. Effects of short-term and subchronic lead poisoning on nitric oxide metabolites and vascular responsiveness in rat. *Toxicology Letters*. 2006; 166: 88-94.
63. [Ghasemi A](#), Sadidi A, Asgari A, Khoshbaten A, Effect of paraoxon on GABA uptake by rat cerebral cortex synaptosomes. *Iran Journal of Medical Sciences*. 2006; 31 (3): 125-130.
64. Kadkhodae M and [Ghasemi A](#). Inhibition of inducible nitric oxide synthase reduces lipopolysaccharide-induced renal injury in the rat. *Clinical and Experimental Pharmacology and Physiology*. 2004. 31: 842-846.

## Papers in Internian Medical Journals

(مقالات فارسی)

1. [Ghasemi A](#), Kadkhodae M, Gharibzadeh Sh, Shams S, Gol A, Makki N. Changes of plasma and renal vitamin E levels in LPS-treated rats. *Kowsar Medical journal*. 2003; 8(1): 33-38
2. Pirmoradi L, Kadkhodae M, Shams S, [Ghasemi A](#), Makki N. The effects of ascorbic acid and l-NIL coadministration on LPS- induced oxidative stress in rat kidney. *Journal of the Faculty of Medicine, Tehran University of medical Sciences*. 2004; 62(5): 394-404
3. Asgari A, Mehrani H, Ghanei M, [Ghasemi A](#), Rezaee R, Miri R. Blood and saliva lactate levels change in the chemically injured and healthy individuals in response to incremental exercise. *Journal of the Military medicine*. 2004; 6(2): 111-115
4. [Ghasemi A](#), Asgari A, Rastegar-farajzadeh A, Rouzbehani AR. Comparison between Iranian and German NBC clothing on some Physiological parameters of human body. *Journal of Military Medicine*. 2005; 7(1): 1-8
5. [Ghasemi A](#), Ghanei M, Asgari A, Mehrani HA. Measurement of maximum oxygen uptake and maximum heart rate in chemically injured individuals and comparison with predicted values. *Kowsar Medical Journal*. 2005; 10 (3): 201-206.
6. [Ghasemi A](#), Hedayati M, Khoshbaten A. Evaluation of a simple and rapid method for serum nitric oxide determination using microplate. *Iranian Journal of Endocrinology and metabolism*. 2005; 7(supplement): 433-439.
7. Zahedi Asl S, Saharnaz F, [Ghasemi A](#), Zaree B. effect of carbon tetrachloride extract of *Trigonella foenum graecum* seeds on the glycogen content of liver in diabetic rats. *Journal of the Medicinal Plants*. 2006; 5 (supp 2): 9-16.
8. Heydari A, Norouzzadeh A, Asgari AR, [Ghasemi A](#), Najafi S, Khoshbaten A. Effects of short term and subchronic lead poisoning on nitric oxide metabolites and vascular responsiveness in rat. *Kowsar Medical Journal*. 2006; 11 (1): 59-68.
9. Zahedi Asl S, [Ghasemi A](#), Faraji F, Valaee F. The effect of physical and psychological stress on responsiveness of isolated rat aorta. *Iranian Journal of Endocrinology and Metabolism*. 2007; 8(4): 393-398.

10. Zahedi Asl S, Khalili N, [Ghasemi A](#), Faraji F, Hedayati M, Azizi F. Osmotic fragility of red blood cells of hypothyroid, hyperthyroid patients and control subjects. *Iranian Journal of Endocrinology and Metabolism*. 2007; 8 (4): 365-373.
11. Hadaegh F, Harati H, [Ghasemi A](#), Tohidi M, Zabetian A, Padyab M, Azizi F. Using common clinical data improves the agreement between the new criteria of impaired fasting glucose and abnormal glucose tolerance. *Iranian Journal of Diabetes and Lipid Disorders*. 2007; 6 (1): 81-90.
12. Shahroukhi A, [Ghasemi A](#), Khoshbaten A, Asgari A. Effect of Paraoxon on cerebellar synaptosome GABA uptake in rats. *The Journal of Physiology and Pharmacology*. 2006; 10: 229-238.
13. [Ghasemi A](#), Shafiee M, Rowghani K, Najafi Mehri S, Padyab M. Effects of cool dialysate temperature on stabilizing hemodynamic parameters in diabetic patients undergoing hemodialysis. *Iranian Journal of Endocrinology and Metabolism*. 2007; 9: 261-266.
14. Najafi Mehri S, Najafi Kalyani M, [Ghasemi A](#), Eebadi A, Tayebi A, Hafezi S. The Comparison of Milad NBC Protective Clothing without Mask and Military Work Clothes on Maximal Oxygen Consumption (Vo<sub>2</sub>max). *Kowsar Medical Journal*, 2006; 11, (4): 367-372.
15. Habibi G, [Ghasemi A](#), Pashaiee Rad S, Faraji F, Zahedi Asl S. Hematology and Osmotic fragility of red blood cells in hyperthyroid rats. *Iranian Journal of Endocrinology and Metabolism*. 2008;9(3):307-316.
16. [Ghasemi A](#), Hedayati M, Biabani H, Khoshbaten A, Asgari A. Deproteinization methods comparison for serum nitric oxide assay by Greiss reaction. *Pejouhesh Dar Pezeshki*. 2007; 31: 33-37.
17. Faraji F, [Ghasemi A](#), Khosravi M, Motamedi F, Zahedi Asl S. Inhibitory effect of GABA on glucose-stimulated insulin secretion from isolated islets of Langerhans in rat. *Iranian Journal of Endocrinology and Metabolism*, 2008; 10 (1): 59-66.
18. [Ghasemi A](#). Letter to the Editor. *The Journal of Qazvin University of Medical Sciences*. 2006;10(3):108.
19. Zahedi Asl S, Shafiee, M, Khaksari M, [Ghasemi A](#). Effect of oral administration of propylthiouracil during pregnancy and lactation in female rats on isolated aorta response in their adult male off springs. *Pejouhesh dar pezeshki*. 2007; 30: 297-304.
20. Noursadeghi E, [Ghasemi A](#), Hedayati M, Azarnia M, Faraji F, Zahedi Asl S. The Effects of Orally Administrated Magnesium on Denuded Aorta Contractility in Streptozotocin Induced Diabetic Rats. *Iranian Journal of Endocrinology and Metabolism*. 2007; 3: 299-305.
21. [Ghasemi A](#), Sadidi A, Mohammadi M, Khoshbaten A, Asgari A. Mechanism of paraoxon effect on [<sup>3</sup>H] GABA uptake inhibition in brain synaptosomes of rat. *Pejouhandeh*, 2008;12(60): 527-534.
22. [Ghasemi A](#), Zahedi Asl S, Mehrabi Y, Saadat N, Azizi F. Serum nitric oxide metabolite levels in general healthy population: relation to sex and age. *The Journal of Qazvin University of Medical Sciences*, 2008; 12(1): 8-15.
23. Noursadeghi E, [Ghasemi A](#), Hedayati M, Azarnia M, Faraji F, Zahedi Asl S. The Effects of Orally Administrated Magnesium on Denuded Aorta Contractility in Streptozotocin Induced Diabetic Rats. *Iranian Journal of Endocrinology and Metabolism*, 2007; 9(3): 299-305.
24. [Ghasemi A](#), Faraji F, Valaee F, Sedaghat K, Zahedi Asl S. Reversibility of physical and psychological stress effects on contractility of isolated aorta and serum corticosteron levels one month after stress in rat. *Iranian Journal of Endocrinology and Metabolism*, 2008;9(4):415-422.

25. [Ghasemi A](#), Said Moradi L. Letter to editor. Iranian Journal of Endocrinology and Metabolism, 2007;9(3):325.
26. [Ghasemi A](#), Farahani H, Zahedi Asl S. Evaluation of plasma concentration changes of nitric oxide metabolites during glucose tolerance test in type II diabetic rats. The Journal of Physiology and Pharmacology, 2008;12: 201-208.
27. Zahedi Asl S, Farahani H, [Ghasemi A](#), Faraji F. The effect of maternal hypothyroidism during pregnancy on carbohydrate metabolism during adulthood in rats. The Journal of Physiology and Pharmacology 2009;12:261-267.
28. [Ghasemi A](#), Siadmoradi L, Momenan AA, Zahediasl S. Association between tobacco smoke and serum nitric oxide metabolites concentration. The Journal of Physiology and Pharmacology 2009;12:336-341.
29. Magnesium deficiency and role of oral magnesium administration on plasma glucose and insulin levels in diabetic rats. Iranian Journal of Diabetes and Lipid Disorders, 2008; 7(4):355-361.

## Book

## کتاب

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. 11<sup>th</sup> 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.



13. Questions of Physiology for Nutrition. M.Sc. course. **Ghasemi A.** 2014, Dr. Khalili Publisher. ISBN: 978-600-6223-79-7.
14. Questions of Physiology, Ph.D. Course with detailed answers. **Ghasemi A.**, 2014, Nedaye Iran. Publisher. ISBN: 978-600-6223-60-5.

## 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 ( $\text{NO}_x$ ) 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