

Mina Hemmati, MSc, PhD in Clinical Biochemistry

Contact Address: Department of Biochemistry, School of Medicine, Birjand University of Medical Sciences, Faculty of Medicine, Birjand, Iran

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<http://orcid.org/0000-0001-9401-5067>

Current Position

Head of Student Research Committee, Associate Professor of Clinical Biochemistry at Department of Biochemistry, School of Medicine, Birjand University of Medical Sciences, Birjand, Iran

Academic education

Doctor of Philosophy (Ph.D), Clinical Biochemistry (2011),

Shiraz University of Medical Sciences, Shiraz, Iran

GPA: 18.32/20

Thesis project: Production of recombinant ESAT-6/CFP-10 fusion protein for diagnosing Human tuberculosis and study of its effect on activation and adhesion of macrophage-like cell line (THP-1) via integrin $\alpha_5\beta_1$ on fibronectin

Supervisor: Dr. Z. Mostafavi-Pour

Master of Science (MS), Clinical Biochemistry (2002)

Shiraz University of Medical Sciences, Shiraz, Iran

GPA: 17.81/20

Thesis project: A study of anti diabetic effects of Quercetin in streptozocin-induced diabetic rats

Supervisor: Prof. M. Vessal

Bachelor of Science, Chemistry (1997)

Institute of Chemistry, University of Tabriz, Tabriz, Iran

Service and Awards

Top researcher, Birjand University of Medical Sciences, Iran (2015)

Top researcher, Birjand University of Medical Sciences, Iran (2016)

Top researcher, Birjand University of Medical Sciences, Iran (2017)

Selected researcher, Birjand University of Medical Sciences, Iran (2018)

Selected article, Congress of Tuberculosis, Zanjan University of Medical Sciences, Iran (2008)

Teaching Experiences

Clinical Biochemistry, Cell and Molecular Biology, Enzymology, Cancer Biochemistry, Cell Signaling, Birjand University of Medical Sciences (2011-present)

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Instructor: Biochemistry, Cell and Molecular Biology, Shiraz University of Medical Sciences (2002-2004)

Teaching at Birjand University of Medical Sciences (Since 2012)

Technical Skills

Cell culture, Adhesion assay, Fluorospectrophotometry, RNA, DNA and Histone Isolation, Gene expression, Quantitative Real Time PCR, Western blotting, Gene Transfection and Infection, Gene Cloning, Primer design, Structure-Function of Bio-macromolecules, Circular Dichroism, Gel Electrophoresis, HPLC, Enzymatic assay

Editorial Duties

Referee/Reviewer: Pakistan Journal of Pharmaceutical Sciences, Phytomedicine, International Journal of Preventive Medicine, Journal of Birjand University of Medical Sciences, Razi Journal of Medical Sciences, Bioresource, Medicinal Chemistry Research, Clinical Phytoscience, Journal of Pancreas, Cell Stress and Chaperone, Journal of Iranian Clinical Research, Microbial Pathogenesis, BMC Complementary and Alternative Medicine, Human and Experimental Toxicology

Patents

Production of three recombinant *Mycobacterium tuberculosis* antigens ESAT-6, CFP-10 and ESAT-6/CFP-10 for use in detection kits, Shiraz, Iran, 2012, NO: 020916

Publications

Papers

1. Maryam Motamedrad, Alireza Shokouhifar, **Mina Hemmati**, Maryam Moossavi. The regulatory effect of saffron stigma on the gene expression of the glucose metabolism key enzymes and stress proteins in streptozotocin-induced diabetic rats. *Research in Pharmaceutical Sciences*. 2019;14(3): 255-262.
2. Sajad Esmaceli, Maryam Motamedrad, **Mina Hemmati**, Omid Mehrpour, Mohsen Khorashadizadeh. Prevention of kidney cell damage in hyperglycaemia condition by adiponectin. *Cell Biochemistry and Function*. 2019; 1-5.

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3. **M. Hemmati**, S.E. Mostafavinia, A. Zarban, R. Hoshyar. Protective effects of quercetin on hyperglycemia and stress proteins expression in rats with streptozocin-induced diabetes. *Modern Care Journal*. 2018 ;15(2):e64964..
4. Sajjad Esmaili, **Mina Hemmati**, Mehdi Karamian. Physiological role of adiponectin in different tissues: A review. *Archives of Physiology and Biochemistry*. 2018. In Press.
5. Toba Kazemi, Morteza Hajhosseini, Maryam Moossavi, **Mina Hemmati** and Masood Ziaee. Cardiovascular Risk Factors and Atherogenic Indices in an Iranian Population: Birjand East of Iran. *Clinical Medicine Insights: Cardiology*. 2018; 12: 1–6.
6. Saeed Ebrahimi F., **Mina Hemmati**, Mohammad Malekaneh. Effects of the date palm fruit (*Phoenix dactylifera* L.) on prolactin, IGF-1, and stress factors in lactating female rats and its impact on their litters' development. *Mediterranean Journal of Nutrition and Metabolism*. 2017; 10: 251–258 DOI:10.3233/MNM-17164 IOS Press.
7. Atefe Ghahremanloo, Reza Hajipour, **Mina Hemmati**, Maryam Moossavi, Zabihullah Mohaqiq. The beneficial effects of pumpkin extract on atherogenic lipid, insulin resistance and oxidative stress status in high-fat diet-induced obese rats. *J Complement Integrative Med*. 2018; 15 (2). 20170051.
8. Fatemeh Abharzanjani, Mohammad Afshar, **Mina Hemmati**, Maryam Moossavi. Short-term High Dose of Quercetin and Resveratrol Alters Aging Markers in Human Kidney Cells. *Int J Prevent Med* 2017; 29: 217.60.83.96.
9. Mehdi Karamian, Fatemeh Haghighi, **Mina Hemmati**, Walter Robert Taylor, Alireza Salehabadi, Mohammad Amin Ghatee. Heterogeneity of *Echinococcus canadensis* genotype 6 – the main causative agent of cystic echinococcosis in Birjand, Eastern Iran. *Veterinary Parasitology* 2017; 245:78-85.
10. Maryam Valavi, Fateme Mezginejad, Fatemeh Haghighi, **Mina Hemmati**, Asghar Zarban, and Elham Rabiei Gask. Effectiveness of Aqueous and Alcoholic Extracts of Barberry, Jujube, and Saffron Against Oxidative Stress in Streptozotocin-Induced Diabetic Rats. *Mod Care J*. 2016 July; 13(3):e11162.
11. Elham Serki, **Mina Hemmati**, Alireza Pourtalebi-Firoozabadi. A Preliminary Study of Comparison of Preventive and Therapeutic Effect of Green and White Tea Against Rifampicin-Induced Chronic Hepatotoxicity in Rats. *American Journal of Clinical and Experimental Medicine* 2017; 5(4): 145-150.
12. Sajad Esmaili, **Mina Hemmati**, Fateme Abharzanjani. Diabetes and renal cell aging, A Review. *Journal of Endocrinology and Thyroid Research* 2017; 1(4).
13. Mahboob Zahra, **Hemmati Mina**, Khorashadizadeh Mohsen, Gholami Maryam. Additive Effects of Resveratrol and Resveratrol/Quercetin in Prevention of Hyperglycemia-

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Mediated Cell Death through Downregulation of NADPH Oxidase and RAGE Expression. *J Pancreas* (Online) 2017 Jan 05; 18(1):216.

14. Bahram Movahedi, Pooneh Mokarram, **Mina Hemmati**, Nader Mosavari, Razie Zare, Leila Safaei, Zohreh Mostafavi-Pour. IFN- γ and IL-2 responses to recombinant AlaDH vs. ESAT-6/CFP-10 fusion antigens in diagnosis of latent vs. active Tuberculosis infection. *Iranian Journal of Medical Sciences*. 2017; 42 :3.

15. Zoya Tahergorabi, Mitra Moodi, Tooba Kazemi, **Mina Hemmati**. The Efficacy of Existing Logbooks in Clinical Wards from Medical Students Viewpoints in Birjand University of Medical Sciences, Iran, in Fall 2016. *Journal of Isfahan Medical School*. 2017; 35 (420).

16. Abharzanjani F, Kazemi T, Bijari B, Hemmati M. Comparison of Serum Level of Heat Shock Protein 27 (HSP27) and the Amount of DNA Damage in Acute Myocardial Infarction Patients. *Iranian J Endocrinol Metab* 2016 Vol 18 No.4 Oct-Nov

17. Safizadeh B, Hoshyar R, **Hemmati M**, Zarban A, Ebrahimi R. A Preliminary evaluation of effect of high dose of jujube and saffron on biochemical and hematological parameters in rats. *Clinical Phytoscience* 2016; 2(15)

18. Maryam Moossavi, Reyhane Hoshyar, **Mina Hemmati**, Ali Farahi and Hossein Javdani. A preliminary evaluation of effects of high doses of Jujube and Saffron on biochemical and hematological parameters in rats. *Clinical Phytoscience* 2016; 2(1), 1-5.

19. Mehdi Karamian, Katrin Kuhls, **Mina Hemmati**, Mohammad Amin Ghatte. Phylogenetic structure of *Leishmania tropica* in the new endemic focus Birjand in East Iran in comparison to other Iranian endemic regions. *Acta Tropica*, 2016; 158: 68–76.

20. Maryam Gholami, Marzieh Vaseie, Soheila Erfani, Masoud Najjarzadeh, **Mina Hemmati**. Protective and therapeutic effects of Fumaria officinalis aqueous extract against acetaminophen-induced chronic hepatotoxicity in rats. *Razi Journal of Medical Sciences*. 2016. Vol. 23. No. 147.

21. Reyhane Hoshyar, Mahdiyeh Hosseinian, Majid Rajabian Naghandar, **Mina Hemmati**, Asghar Zarban, Zahra Amini, Maryam Valavi, Masoomeh Zare Beyki and Omid Mehrpourl. Anti-Dyslipidemic Properties of Saffron: Reduction in the Associated Risks of Atherosclerosis and Insulin Resistance. *Iran Red Crescent Med J*. 2016. e36226. doi: 10.5812/ircmj.36226.

22. **Hemmati M** et al. Comparison of serum level of heat shock protein 27 (HSP 27) and the amount of DNA damage in acute myocardial infarction patients. *Iranian Journal of Endocrinology and Metabolism*. 2016 (In Press)

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23. Banafsheh Safizadeh, Reyhane Hoshyar, **Mina Hemmati**, Asghar Zarban and Roshanak Ebrahimi. An invivo study on the hepato-protective effects of Crocus sativus, Ziziphus jujuba and Berberis vulgaris against acute acetaminophen and rifampicin-induced hepatotoxicity. *Clinical Phytoscience* **2016**; 2:16.DOI 10.1186/s40816-016-0030-7

24. Hemmati M et al. Additive effect of recombinant Mycobacterium tuberculosis ESAT-6 protein and ESAT-6/CFP-10 fusion protein in adhesion of macrophages through fibronectin receptors. *J Microbiol Immunol Infect.* **2016**; 49: 249-256.

25. Hemmati M, Mahboob Z. Diabetic Retinopathy: Its Mechanism and Therapeutic Strategies. *Iranian Journal of Endocrinology and Metabolism.* **2016**; 17: 477-488. **Review article.**

26. Atefeh Seghatoleslam, **Mina Hemmati**, Saeedeh Ebadat, Bahram Movahedi, Zohreh Mostafavi-Pour. Macrophage immune response suppression by recombinant mycobacterium tuberculosis antigens, ESAT-6, CFP-10 and and ESAT-6/CFP-10 proteins. *Iranian Journal of Medical Sciences.* **2016.** (In Press)

27. Mina Hemmati, Elham Serki, Maryam Gholami, Reyhane Hoshyar. Effects of an ethanolic extract of Berberis vulgaris fruits on hyperglycemia and related gene expression in streptozotocin-induced diabetic rats. *Clinical Phytoscience* **2016**: 2:3.

28. Maryam Gholami, **Mina Hemmati**, Amir Taheri-Ghahfarokhi, Reyhane Hoshyar , Maryam Moossavi. Expression of glucokinase, glucose 6-phosphatase, and stress protein in streptozotocin-induced diabetic rats treated with natural honey. *Int J Diabetes Dev Ctries.* **2016.** 36(1):125–131.

29. Mina Hemmati et al. Anti-atherogenic Potential of Natural Honey: Anti-diabetic and Antioxidant Approaches. *Journal of Pharmacy and Pharmacology.* **2015**; 3: 278-284.

30. Mina Hemmati et al. Hypoglycemic effects of three Iranian edible plants; jujube, barberry and saffron: Correlation with serum adiponectin level. *Pak. J. Pharm. Sci.* **2015**; 28 (6): 2095-2099.

31. Mina Hemmati et al. ANTI-ATHEROGENIC POTENTIAL OF JUJUBE, SAFFRON AND BARBERRY: ANTI-DIABETIC AND ANTIOXIDANT ACTIONS. *EXCLI Journal.* **2015**; 14: 908-915.

32. M. Karamian, M.S. Faroghi Bojd, A. Salehabadi, **M. Hemmati** and D.A. Barati. Effectiveness of meglumine antimoniate against *L. tropica* in a recently emerged focus of cutaneous leishmaniasis in Birjand, eastern Islamic Republic of Iran. *Eastern Mediterranean Health Journal.* **2015**; 21(4): 280-86.

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33. Mina Hemmati, Elham Zohoori, Somayeh Asghari. (2015) Study of changes in lipoprotein (a) level in streptozotocin-induced diabetic rats treated with aqueous extract of berberis vulgaris. *Hakim Jorjani J* **2015**; 2(1):11-17.

34. Bita Bijari, Ali Abbasi, **Mina Hemmati**, Keyvan Karabi. (2014) Nosocomial Infections and Related Factors in Southern Khorasan Hospitals. *Iran J Med Microbiol.* **2014**; 8 (4) :69-73.

35. Mina Hemmati et al. (2014) Study of changes in adiponectin level in streptozotocin induced diabetic rats treated with aqueous extract of *berberis vulgaris*. *Journal of Birjand University of Medical Sciences.* **2014**; 21 (1): 27-34.

36. Hemmati M et al. (2014) Effects of Alcoholic and Aqueous Extract of Barberry, Jujube and Saffron Petals on Serum Level of Adiponectin and Lipid Profile in Diabetic Rats. *Iranian Journal of Endocrinology and Metabolism.* **2014**; 16: 329-337.

37. Mehdi Karamian, Mohammad Sedigh Faroghi Bojd, **Mina Hemmati**, Seyed Alireza Sadatjoo, Darvish Ali Barati. Molecular identification of cutaneous leishmaniasis agents in Birjand, Iran. *Journal of Birjand University of Medical Sciences.* **2013**; 20 (2): 183-190.

38. Hemmati M et al. Expression and purification of recombinant M.tb antigens, ESAT-6, CFP-10 and ESAT-6/CFP-10 and their diagnostic potential in detection of TB in Iran. *Iranian Red Crescent Medical Journal*, **2011**; 13

39. Vessal M, **Hemmati M**, vasei M. Antidiabetic effects of quercetin in streptozocin-induced diabetic rats. *Comp.Biochem.Physiol, C.* **2003**; 135: 357-364.

Journal Abstracts

M. Hemmati, Z. Mostafavi-pour, A. Seghatoleslam, M. Rasti, S. Ebadat (2009). Characterization of purified recombinant ESAT6, CFP10 and ESAT6/CFP10 fusion protein of *Mycobacterium tuberculosis* C for detection of human tuberculosis in Iran. *Clinical Microbiology and Infection.* Volume15 Issue 4 supplement S 615.

M Hemmati, A Seghatoleslam, M Rasti, S Ebadat, N Mosavari, M Habibagahi, M Taheri, A Sardarian, Z Mostafavi-Pour (2011) ELISPOT assay: Is it a suitable alternative for PPD skin test ? *Clinical Biochemistry.* Volume 44 Issue 13 supplement, S 140

Mina Hemmati, Elham serki. (2017) Investigation of adiponectin and leptin level in a high fat diet-induced obesity rat model treated with hydroalcoholic extract of pumpkin. *Iran J Basic Med Sci.* 20 (10).

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Conferences

Talks & Posters

1. **Hemmati M**, Vessal M. (2003) A study of anti diabetic effects of Quercetin in streptozocin-induced diabetic rats. Abstract, 16th Iranian Congress of Physiology and Pharmacology Tehran, Iran.
2. **Mina Hemmati**, Zohreh Mostafavi-Pour, Mojgan Rasti, Atefeh Seghatoleslam, Saeedeh Ebadat, Nader Mosavari (2008) Production of recombinant ESAT-6/CFP-10 fusion protein using PCR and cloning of related genes for detection of Mycobacterium tuberculosis in Iran. Abstract, 19th National Congress of Tuberculosis Zanjan, Iran.
3. S. Ebadat, Z. Mostafavi-Pour, **M. Hemmati**, M. Rasti, A. Seghatoleslam, N. Mosavari. (2009) Expression and Purification of Antigen 85 Complex (A, B, C) and MPB-64 from Mycobacterium Bovis AN5. Abstract, 10th Iranian Congress of Biochemistry and 3rd International Congress of Biochemistry and Molecular Biology Tehran, Iran.
4. **Mina Hemmati**, Zohreh Mostafavi-Pour, Atefeh Seghatoleslam(2013) Mycobacterium tuberculosis RD-1 encoded antigens: Activatory or inhibitory agents for host macrophages? Abstract, 5th International Congress of Biochemistry and Molecular Biology & 13th Iranian Congress of Biochemistry. Yazd, Iran.
5. **Mina Hemmati**, Zohreh Mostafavi-Pour, Atefeh Seghatoleslam(2013) Specific secretory antigens or PPD; which one is suitable for detection of Tuberculosis? Abstract, the 5th International Congress of Laboratory & Clinic. Tehran, Iran.
6. Somaye Asghari, **Mina Hemmati**, Elham Zohoori (2014) Anti-diabetic effects of aqueous extract of Berberis vulgaris in comparison with quercetin: correlation with serum adiponectin level. Abstract, the 6th International Iranian Congress of Laboratory & Clinic. Tehran, Iran.
7. Elham Zohoori, **Mina Hemmati**, Somaye Asghari (2014) Anti-atherogenic effects of Crocus sativus extract in diabetic rats compared with Quercetin. Abstract, the 6th International Iranian Congress of Laboratory & Clinic. Tehran, Iran.
8. Somaye Asghari, **Mina Hemmati**, Elham Zohoori (2013) Lipid profile Improvement by adiponectin in diabetic rats treated with hydroalcoholic extract of jujube, baeberry and saffron. 21st International Iranian Congress of Physiology and Pharmacology. Tabriz, Iran.

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9. Elham Zohoori, **Mina Hemmati**, Somaye Asghari (2013) Anti-atherogenic effects of hydro alcoholic extract of Ziziphus jujubamil, Berberis vulgaris and Crocus sativus in diabetic rats . 21st International Iranian Congress of Physiology and Pharmacology. Tabriz, Iran.
10. **Mina Hemmati**, Mohammad Malekaneh (2014) Therapeutic Potential of Honey in Streptozocin-induced diabetic rats; Correlation with adiponectin. 10th International Congress of Endocrine Disorders. Tehran, Iran.
11. M. Karamian, M.S. Faroghi Bojd, **M. Hemmati**, D.A Barati. (2014) Therapeutic response to meglumine antimoniate in a recently emerged focus of cutaneous leishmaniasis in Birjand, Eastern Iran. Iranian Congress of Antimicrobial resistant infectious disease. Sari, Iran.
12. Maryam Gholami, Masoud Najjarzadeh, **Mina Hemmati**. (2015) Protective effects of Green tea extract against Acetaminophen-induced hepatotoxicity in rats. 3rd International and 5th Iranian Congress of Endocrine & Metabolism Updates. Isfahan, Iran.
13. Gholami, Maryam, **Hemmati, Mina**. (2015) THE EFFECTS OF NATURAL HONEY ON LIPID- PEROXIDATION AND TOTAL ANTIOXIDANT POWER IN STREPTOZOCIN-INDUCEDDIABETIC RATS. 4th National Congress on Medicinal Plants. Tehran, Iran.
14. Gholami, Maryam, **Hemmati, Mina**. (2015) QUERCETIN: A GOOD CANDIDATE FOR TREATMENT OF DIABETES? 4th National Congress on Medicinal Plants. Tehran, Iran.
15. Maryam Gholami, Marzieh Vaseie, Soheila Erfani, Masoud Najjarzadeh, **Mina Hemmati**. (2015) Comparative study of two treatment strategies based on medicinal plants, such as *Fumaria officinalis* against acetaminophen-induced hepatotoxicity. The first International Congress of Complementary and Alternative Medicine. Mashhad, Iran.
16. Atefe Ghahremanloo, Reza Hajipour, Masoud Najjarzadeh, **Mina Hemmati**. (2015) Pumpkin extract improve dyslipidemia in diet-induced obese rats. The first International Congress of Complementary and Alternative Medicine. Mashhad, Iran.
17. Zahra Mahboob, **Mina Hemmati**. (2015) Protective effects of Quercetin (a flavonoid from natural source) against hyperglycemia-induced oxidative stress in kidney cells. The first International Congress of Complementary and Alternative Medicine. Mashhad, Iran.
18. Saeed Ebrahimi, **Mina Hemmati**, Mohammad Malekane. (2016) Effect of *Phoenix dactilifera L.* on prolactin secretion in lactating rats. 14th National Congress of Biochemistry, Tehran, Iran.
19. Fateme Abhar-Zanjani, **Mina Hemmati**. (2016) Evaluation of HSP27 plasma level as a predictive marker in acute myocardial infarction patients. 14th National Congress of Biochemistry, Tehran, Iran.

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20. Fateme Abhar-Zanjani, **Mina Hemmati**. (2016) Protective effect of Resveratrol on hyperglycemia-mediated oxidative stress in kidney cells through measurement of thioredoxin gene expression. 14th National Congress of Biochemistry, Tehran, Iran.

Nucleotide Sequences recorded in Gene Bank database (NCBI)

KC505421 Leishmania major ITS1 rDNA gene
KC505422 Leishmania tropica ITS1 rDNA gene
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Current Projects and Students' Thesis

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- **Relationship between oxidative stress mediated endothelial damage and diabetes in Coronary artery disease (Research Project)**
- **Antidiabetic effect of three Iranian edible plants and evaluation of mRNA level of Hexokinase and Glucokinase enzymes in treated diabetic rats (Research Project)**
- **Determining Heat Shock Protein 60 and 65 (HSP) level in blood circulation of patients with hypertension under treatment of anti-hypertension drugs were referred to Valiasr hospital (Medical Student Thesis)**
- **Comparison of changes of the renal function markers (creatinine, BUN and (GFR) after open heart surgery and its relationship with the risk factors before and after surgery (Medical Student Thesis)**
- **Study of Effects of Echinium Amoenum Extract on Hematological Parameters, Liver Enzymes and Histopathology in Rats (Medical Student Thesis)**
- **Evaluation of oxidative stress markers (8-OHdG and HSP 27) in Acute MI patients referred to Valiasr Hospital in 2015 (Student Research Project)**
- **Study of relationship between HOMA-IR and serum vitamin D in AMI patients (Student Research Project)**
- **Evaluation the changes of adiponectin level in patients undergoing coronary artery bypass grafting in vali-asr hospital with cardiopulmonary pump in 2014-15 (Medical Student Thesis)**
- **Evaluation of Prolactin secretion, IGF and glutathion in female rats and their litters growing that receiving phoenix dactylifera (Student Research Project)**

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- **Evaluation of heat shock proteins hsp27 and hsp60 levels in diabetic patients (Birjand) (Student Reserch Project)**
- **Study of anti-obesity properties of hydroalcoholic extract of cucurbita and evaluation of lipid profile and glutathione level in diet-induced obese rats (Student Research Project)**
- **Evaluation of aging markers in human kidney cells in high glucose media and kidney of diabetic rats (MSc student thesis)**
- **Study of adiponectin role in prevention of kidney cell death through mTOR intracellular pathway (Msc. student thesis)**
- **Protective effect of Resveratrol and Quercetin in prevention of high glucose-mediated stress in kidney cell line via assessment of RAGE and NADPH oxidase expression (MSc student thesis)**
- **Production of recombinant protein AlaDH from Mycobacterium tuberculosis: comparison of IL-2 and IFN- γ release in response to AlaDH in presence or absence of ESAT-6/CFP-10 recombinant protein for detection of latent TB (Ph.D student thesis).**