

## In the name of God

### CV (From 1995 to present)

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<b>Employment to date</b>	1995-present day, Bushehr University of Medical Sciences, Lecturer <b>and researcher</b>
<b>Skills</b>	1-Flame photometer 2-Atomic absorption spectrophotometry 3-Chromatography 4-Electrophoresis 5-Sodium-lithium countertransport (SLC) activity analysis 6-Lipid extraction technique and lipoprotein lipase measurement 7-Blood drawing and injecting rats and rabbits
<b>Interests</b>	Reading, Research, Exercise, Picnic and Tourisms

## Articles

- 1-**Akbarzadeh S**, **Treatment Qualities of Lithium**. Scientist (1997), 405:44.
- 2-**Akbarzadeh S**, Ani M, Moshtaghi A.A, **Effects of Lithium on Metabolism of Lipid in Rat**. Iranian South Medical journal (1999), 2(2): 80-86.
- 3-Karimi F, Rayani M, **Akbarzadeh S**, Khakzad R, Tahmasebi R, Arab J, Rastegarpour M, Siaki F, Moseni M.R, Arjomandfar Y, **Prevalence of Hyperlipidemias in Adult Population (>19 years) of Bushehr Port, 1999**. Iranian South Medical journal (2000), 3(2): 98-106.
- 4-**Akbarzadeh S**, Pourebrahim R, Karimi F, Mahbobnia M, Gholamzadeh F, Rohei L, **Cholesterol and Lipoproteins Concentrations of Bushehr Port School Children, 1999**. Iranian South Medical journal (2000), 3(1): 29-33.
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- 6-Ani A, Moshtaghi A.A, **Akbarzadeh S**, **Changes in Sodium-Lithium Countertransport Activity Following Aluminium Treatment**. Pakistan Journal of Biological Sciences (2006), 9(10): 1950-1954.
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- 8- **Akbarzadeh S**, Ani A, Moshtaghi A.A, Movahed A, **Changes in Erythrocyte Sodium-Lithium Countertransport and Plasma Parameters Following Selenium Treatment**. Journal of Biological Sciences (2008), 8(1): 166-170.
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- 10- **Akbarzadeh S** , Ani A , Moshtaghi A.A , Movahed A ,Shahnoosh Foroshani A.R,**Effects of Magnesium on Erythrocyte Sodium-Lithium Countertransport Activity and Plasma Biochemical Parameters in Rabbits**, Journal of South Medicine (2008), 2:116-122.
- 11-Assadi M,Salimipour H,Nabipour I,**Akbarzadeh S**,Nemati Z,Javadi H,Nemati R,Seyedabadi M,Abbaszadeh M,Assadi M.**Prediction of bone loss usig biochemical markers of bone remodeling in patients with multiple sclerosis**.Iranian journal of nuclear medicine.2010;18:99.Abstract

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14- **Akbarzadeh S**, Nabipour I, Jaffari SM, Motamed N, Movahed A, Mirzaei M, Rahbar AR. Relationship among sera lipoprotein abnormalities in healthy individuals with background of diabetic sibling. African Journal of Biotechnology. 2011; 10(48):9904-9907.

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80-Sani, M.Z., Bargahi, A., Momenzadeh, N., **Akbarzadeh, S.**, Mohammadi, M. Genetically engineered fusion of allergen and viral-like particle induces a more effective allergen-specific immune response than a combination of them. *Applied Microbiology and Biotechnology*, 2021, 105(1), pp. 77–91.

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82-A.karimi, **S. Akbarzadeh**, A. Movahed, H. Jaberie.. Evaluation of Antioxidant and Cytotoxic Activity of *Spirulina Platensis* Ethanolic Extract. *Iran South Med J* 2022; 25(4): 285-296.

83-M.Shaker,GR.Khamisipour,H.Sadeghipour,A.Zar,B.Naeimi,**S.Akbarzadeh**. The effect of resistance training and garlic extract on insulin sensitivity/resistance and biochemical parameters in diabetic rats.comparative exercise physiology,2022;18(22):163-170.

## Lecturers and posters

1-**Akbarzadeh S**, Ani M, Moshtaghie A.A, Mirhashemi S.M. *Changes in Sodium-Lithium Countertransport (SLC) Activity in RBC Following Lead Treatment*. First Congress of Iranian Trace Elements, Iran University of Medical Sciences and Health Services 11-12 Nov 2006.

2- Mirhashemi S.M, Moshtaghie A.A, Ani M, **Akbarzadeh S**, *Comparative Effects of Aluminium on Serum, Liver and Brain High and Low Molecular Weight Alkaline Phosphate sIsoenzymes in Rat*. First Congress of Iranian Trace Elements, Iran University of Medical Sciences and Health Services 11-12 Nov 2006.

3- **Akbarzadeh S**, Ani M, Moshtaghie A.A, Movahed A, *Effects of Lithium on Metabolism of Lipid in Rat*. 4<sup>th</sup> Biochemistry Congress, Babol University of Medical Sciences 19-22 Oct 1997.

4- **Akbarzadeh S**, Pourebrahim R, Karimi F, Mahbobnia M, Gholamzadeh F, Rohei L, *Cholesterol and Lipoproteins Concentrations of Bushehr Port School Children, 1999*. 6<sup>th</sup> International Congress of Endocrine Disorders, Tehran, Iran, October 6-9, 2001.

5- **Akbarzadeh S**, *Effects of Lithium on Metabolism of Lipids in Rats*. International Congress of Clinical Chemistry and Laboratory Medicine, Firenze, Italy, 6-11 June 1999.

6- **Akbarzadeh S**, *Chiness Congress of Clinical Chemistry and Laboratory Medicine*, Hongkong, China, 11-15 June 2000.

7- **Akbarzadeh S**, Ani M, Moshtaghie A.A, Movahed A, *Changes in Sodium-Lithium Countertransport Activity Following Aluminium Treatment*. The 9<sup>th</sup> Iranian congress of biochemistry and molecular biology. Shiraz-Iran, Oct.29-Nov.1, 2007.

8- Movahed A, Zaki abassi M, **Akbarzadeh S**, *Evaluation of the Relationship Between the Chemical Composition of Kidney Stone and Dietary Risk Factors*. The 9<sup>th</sup> Iranian congress of biochemistry and molecular biology. Shiraz-Iran, Oct.29-Nov.1, 2007.

9- **Akbarzadeh S**, Ani M, Moshtaghie A.A, Movahed A, *Effects of Magnesium on Erythrocyte Sodium-Lithium Countertransport Activity and Plasma Lipids in Rabbits*. The 1<sup>th</sup> Iranian congress of Metabolic Syndrome. Tabriz-Iran, 13-14 Jun 2008.

10- A Movahed, M Zakiabassi, **S Akbarzadeh**, I Nabipour, M Assadi, K Mirzaei, *Evaluation of the Relationship Between the Chemical Composition of Kidney Stone and Dietary Risk Factors*. Clin Chem Lab Med 2009;47. Special Supplement. Poster Abstracts-IFCC-EFCC-EUROMEDLAB 2009-Innsbruck, 7-11 June. W-A076. Berlin. New York.

11- Majid Assadi<sup>1</sup>, Hooman Salimipour<sup>1</sup>, Iraj Nabipour<sup>1</sup>, **Samad Akbarzadeh**, Zahra Nemati, Hamid Javadi, Reza Nemati, Mohammad Seyedabadi, Mohammad Seyedabadi, Moloud Abbaszadeh, Mahsan Assadi. Prediction of bone loss using biochemical markers of bone remodeling in patients with multiple sclerosis. 14<sup>th</sup> Iranian Annual and International Congress of Nuclear Medicine, Mashhad, Iran. 4-6 November 2010.

12- A Movahed, D Iranpour, I Nabipour, M Jafari, **S Akbarzadeh**, K Mirzaei, M Assadi, *Evaluation of Relationship Between the Presence of Coronary Artery Disease and Circulatory Total Bilirubin*. Clin Chem Lab Med 2009;47. Special Supplement. Poster Abstracts-IFCC-EFCC-EUROMEDLAB 2009-Innsbruck, 7-11 June. W-A077. Berlin. New York.

13-P Bazzi, F Rajaei, **S Akbarzadeh**, M.A Zare, A Bargahi. The cytotoxic effects of acute and chronic dose of lead acetate on testicular tissue on rabbits. 3<sup>rd</sup> congress of the Asia Pacific initiative on reproduction (Aspire 2010), Bangkok, Thailand 9-11 April 2010.

14-P Bazzi, F Rajaei, **S Akbarzadeh**, A Bargahi, M.A Zare. The cytotoxic effects of acute and chronic dose of aluminium chloride on testicular tissue on rabbits. 3<sup>rd</sup> congress of the Asia Pacific initiative on reproduction (Aspire 2010), Bangkok, Thailand 9-11 April 2010.

15-Ani M, Ani A, Amini M, **Akbarzadeh S**, Azarkamand G. Increased activity of sodium-lithium countertransport in first degree family of diabetic patients; a biomarker for prognosis of diabetes. The 12<sup>th</sup> Asian-Pacific Congress of Clinical Biochemistry, October 3-7, 2010.

16-Ani A, Ani M, Moshtaghi AA, **Akbarzadeh S**. Inhibition of erythrocyte sodium-lithium countertransport activity by magnesium. The 12<sup>th</sup> Asian-Pacific Congress of Clinical Biochemistry, October 3-7, 2010.

17-**Samad Akbarzadeh**, Abolreza Pourbehi, Narges Obeidi. Changes serum concentrations of omentin-1 in normoglycemic of familial diabetes. The 4<sup>th</sup> international and 9<sup>th</sup> national congress on quality improvement in clinical laboratories. 2011.

18-A Pourbehi, **S Akbarzadeh**, I Nabipour, S.M Jafari, A Movahed. Changes serum concentrations of omentin-1 in normoglycemic of familial diabetes. The 4<sup>th</sup> international and 9<sup>th</sup> national congress on quality improvement in clinical laboratories. 2011.

19-Yousefi F, **Akbarzadeh S**, Khosravizadegan F, Motamed N, Eghbali S, Moula A, Salimpour H, Jafari M. The evaluation of plasma level of ghrelin in patient with Alzheimer disease. 11<sup>th</sup> Iranian congress of biochemistry 8-10 February 2011 Qazvin.

20- **Akbarzadeh S**, Nabipour I, Nazem, H, Pourbehi, A. Changes serum concentrations of adiponectin in healthy subjects of familial diabetes. 11<sup>th</sup> Iranian congress of biochemistry 8-10 February 2011 Qazvin.

21-Abbasi F, **Akbarzadeh S**, Ghasemi S, Kalantarhormozi MR, Motamed N, Mirzaei. Plasma concentrations of omentin-1 in women with polycystic ovary syndrome (PCOS) and BMI<25". 11<sup>th</sup> Iranian congress of biochemistry 8-10 February 2011 Qazvin.

22-Aminfar E, **Akbarzadeh S**, Ghasemi S, Jafari SM, Movahed A, Hajian N. Plasma concentrations of vaspin in women with polycystic ovary syndrome (PCOS). 11<sup>th</sup> Iranian congress of biochemistry 8-10 February 2011 Qazvin.

23-Aghaei N, Arjmand M, Zamani Z, Haghossini R, Falahpoor F, Irvani A, **Akbarzadeh S**, Sadeghi S, Akbari Z, Tavakoli T. The effects of anti malaria artemisinin on profile metabolite falsiparum plasmodium via HINMR. 11<sup>th</sup> Iranian congress of biochemistry 8-10 February 2011 Qazvin.

24-Assadi M,Salimpour H,**Akbarzadeh S**,Samani Z,Nemati R,Jafari S,Seyedabadi M,Abbaszadeh M,Nabipour I.Correlation of circulating omentin-1 with bone mineral density in multiple sclerosis:the crosstalk between bone and adipose tissue.11<sup>th</sup> Annual Congress of the European association of nuclear medicine(EANM11),October 15-,2011,Birmingham,UK.

25-**Samad Akbarzadeh** , Abolreza Pourbehi , Narges Obeidi. Changes serum concentrations of omentun-1 in normoglycemic of familial diabetes.The 4th international and 9 th national congress on quality improvement in clinical laboratories.2011.

26-Goudarzi A,Movahed A,Tarverdizadeh B,**Akbarzadeh S**,Motamed N,Seyedian R,Vahidi S,Pakdel F,Tahmasebi R.The protective role of oral consumption of N-acetyl cysteine during a single bout of exhaustive exercise in untrained subjects.21<sup>st</sup> international Iranian congress of physiology and pharmacology 23-27august 2013.Tabriz university of medical sciences.

27- **Samad Akbarzadeh**, Bahman Ramavandi, Anahita Abbasifard, Vajihe Haghshenas Biosorption of Ni (II) and Zn (II) from aqueous solution using biomass of *Rhizopus* . 5<sup>th</sup> Iranian congress of trace elements 20-22 Dec 2016 Tarbiat Modares university.

28- Afshar Bargahi , **Samad Akbarzadeh**, Ali Movahed, Niloufar Motamed, Elham Jafarzadeh . Determination of some heavy metals in edible seaweeds, *Padina australis* and *Cystoseria trinodis* collected from coastal waters of Bushehr province. 5th Iranian congress of trace elements 2-4 Nov 2016 Tarbiat Modares university.

29- Ali Movahed, **Samad Akbarzadeh**, Niloofar Motamed, Afshar Bargahi, Masume Salemy, Determination of minerals in the edible seaweeds "*Padina australis* and *Cystoseira trinodis*" collected from coastal waters of Bushehr province. 5th Iranian congress of trace elements 2-4 Nov 2016 Tarbiat Modares university.

30- **Samad Akbarzadeh**, Rauf Foroutan, Somayeh Abbasi. Determine the ideal conditions for the removal of divalent copper ions from aqueous solutions using activated carbon produced from the shell of pistachio. 5th Iranian congress of trace elements 2-4 Nov 2016 Tarbiat Modares university.

31- **Samad Akbarzadeh**, Mojtaba Hasanpour, Gholamreza Khamisipour, Behrooz Naeimi. No association of ghrelin gene and ghrelin receptor gene polymorphisms with Alzheimer's disease.2th international and 14<sup>th</sup> Iranian Genetics congress.21-23 May 2016.

32- Abbas Ranjbari ,Khalid Mohammadzadeh Salamat, **Samad Akbarzadeh**, Gholamreza Khamisipour, Parviz Farzadinia, Behroz Naeimi. The Effect of Aqueous Extract of Nettle and Endurance Training on Serum CRP, Blood Glucose, Body Weight, and Changes in Pancreatic, Liver and Heart Tissues of STZ-Diabetic Rats.11th international congress of laboratory and clinic.December 16-18, 2016 Tehran University of Medical Sciences.

**Books:**

1-Title:Lithium, Therapeutic effects and Potential Uses

Authors:Dr.Samad Akbarzadeh and Dr.Mojtaba Keshavarz.

2-Title:Nettle extract, exercise and Diabetes

Authors: Dr.Mohammad Ali Azarbayjani, Dr.Samad Akbarzadeh, Dr.Bahman Tarvardizadeh and Abbas Ranjbari.

3-Title:Biochemistry for students

Translators and compilers: Dr. Hassan Meshkibaf, Dr. Abdolali Ebrahimi, Dr. Fatemeh Sholevar, Dr. Samad Akbarzadeh and Dr. Ali Asghar Ahmadi.

**Occupation Experience:**

1- Teaching and research experience ,Bushehr University of Medical Sciences and Health Services ,1995- to present day

2- In charge of affairs, Bushehr Central Diagnostic Laboratory (18 months).

3- Quality control of diabetic tests, Bushehr Health Center, 2000-2002.

4-National tests on micro nutrients to determine iron, zinc and vitamin A, D in Bushehr province Iran 2001.

5-Quality control of samples and specimens sent from National Laboratory to Bushehr laboratories.

6-To equip and activate Biochemistry Laboratory Bushehr Medical University.

7-Student advisor 1998-2001 and 2007.

8-Head of Student Research Committee Bushehr Medical University.

9-Cooperation in translation of: Biochemistry Book for Medical Students.

10-Director of Education and Postgraduate Studies of Bushehr University of Medical Sciences since 2008

۱۱-Vice Chancellor of Bushehr University of Medical Sciences

**Workshop attendance:**

Title of Workshop	Name of Institute	Date	Duration
Research Methodology		1996	3 days

Research Methodology	Bushehr University of Medical Sciences		
	Bushehr University of Medical Sciences.	1999	3 days
Syllabus Outline	Bushehr University of Medical Sciences (EDC)	1995	2 days
Ethic in Medicine	Bushehr University of Medical Sciences.(EDC)	1997	1 days
Test Quality Control National Level (Thalasemia)	Tehran University of Medical Sciences.	2000	1 day
Third National Congress on Medical Education	Isfahan University of Medical Sciences.	1998	3 days
Teaching Methodology	Bushehr University of Medical Sciences(EDC)	1998	3 days
Total Quality Management	Bushehr University of Medical Sciences(EDC)	2000	2 days
Medical Diagnostic Laboratory(survey)	Bushehr University of Medical Sciences.	2001	1 day
Determination of Micro Nutrient Deficiency(Vitamin A , D Iron, Zinc)	Bushehr University of Medical Sciences.	2001	2 days
As a Lecturers in National Project :Determination of Micronutrients Deficiency ( Vitamin A , D Iron, Zinc)	Bushehr University of Medical Sciences.	2001	1 day
Integration: General Medical Education	Iran Medical University	2007	1 day
Standard Questionnaire Outline and Post Examination Analysis of Multiple-Choice Questions	Bushehr University of Medical Sciences.	2008	1 day
Creativity	Bushehr University of Medical Sciences.	2008	1 day
National Congress of the Heads of Biochemistry Departments and Representatives of Biochemistry Society from all over Iran	Tehran Medical University	2007	2 day
Comparison of Syllabuses to Verify Foreign Medical Universities, Syllabuses	Ministry of Health Tehran	2008	1 day



Article Writing	Bushehr University of Medical Sciences.	2008	2 day
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### **Membership:**

- 1.** Biochemistry Society of the Islamic Republic of Iran
- 2.** Trace Elements Society of Iran
- 3.** Expenditure Correction/Improvement Committee of Bushehr Medical University
- 4.** Trace Elements Society Representative in Bushehr.
- 5.** Member of Research Assembly Bushehr Medical University
- 6.** Member of Standardization Committee for General Medical Education
- 7.** Member of Educational Planning Committee of EDC Bushehr Medical University
- 8.** Member of the University Education Council
- 9.** Member of the Strategic Policy Management Council of the University Research Management
- 10.** Member of the University H.S.R Policy Council
- 11.** Member of the University Research Council
- 12.** Member of the University Ethics Committee
- 13.** Member of the University Council
- 14.** Member of the University Board of Auditors
- 15.** Member of the University Admissions Board
- 16.** Deputy Editor of the Journal of Southern Medicine

### **Awards:**

- 1- First rank of biochemistry student in doctoral course
- 2-Distinguished Lecturer of Bushehr Medical University 1997.
- 3-Distinguished Researcher of Bushehr Medical University 2007
- 4-Distinguished Lecturer of Bushehr Medical University 2008.
- 5-Distinguished Researcher of Faculty Medicine 2009.
- 6-Distinguished Lecturer of Bushehr Medical University 2010.
- 7-Distinguished Researcher of Faculty Medicine 2010.
- 8-Distinguished Lecturer of Bushehr Medical University 2011.

9-Top researcher in 2012 in Bushehr province

10-Distinguished Researcher of Faculty Medicine 2012.

11-Distinguished Researcher of Faculty Medicine 2013.

12-Distinguished Researcher of Faculty Medicine 2016.

13-First Position Certificate of Merit for Poster Presentation at International Students Congress Mashhad.

14-Second Position Certificate of Merit for Poster Presentation at Students' Congress Bandarabbas.

15- Receiving the required number of points in the Festival of Top Theses of Iran - Special Award for Professor Hesabi {Fourth Volume} in thesis 2020

## **Theses Supervised**

1. Investigation of the activity of sodium-lithium transport in grade 1 diabetic individuals compared to diabetic-susceptible individuals and normal individuals (PharmD advisor)
2. Study of serum adiponectin concentration in 30-54-year-old individuals from diabetic families in the city of Bushehr (Master's advisor)
3. Analysis of serum Retinol Binding Protein 4 changes in 30-54-year-old individuals from diabetic families in the city of Bushehr (Medical advisor)
4. Evaluation of plasma omentin-1 levels in women with polycystic ovary syndrome (Medical advisor)
5. Examination of plasma progranulin levels in women with polycystic ovary syndrome (Medical advisor)
6. Investigation of plasma Relaxin levels in women with polycystic ovary syndrome (Medical advisor)
7. Biochemical analysis of date cheese to evaluate its nutritional value (Medical advisor)
8. Analysis of antigens of other blood groups in patients with thalassemia major in the city of Bushehr in 2034 (Medical advisor)
9. Assessment of the histochemical effects of lead acetate on the liver of desert rats (Medical advisor)
10. Investigation of the acute and chronic cytotoxic effects of lead acetate on the structure of renal tissue in rabbits (Consultant medical advisor)
11. Study of the prevalence of blood lipid disorders in pre-university students in the city of Bushehr (Consultant medical advisor)

12. Assessment of serum visfatin levels in patients with iron-deficiency anemia in the city of Jam in 2012 (Thesis advisor in medicine)
13. Examination of serum ghrelin levels in patients with Alzheimer's disease in Bushehr (Thesis advisor in medicine)
14. Study of the effect of the herb Stevia on plasma omentin levels in streptozotocin-induced diabetic rats (Medical advisor)
15. Investigation of the prevalence of hepatitis E virus antibodies in patients with kidney failure in the city of Bushehr (Medical advisor)
16. Determination of the effect of miR29a on the expression of estrogen receptors in MCF-7 breast cancer cells (Medical advisor)
17. Determination of the intensity effect of magnetic fields on microRNA expression in human breast cancer cells (Thesis advisor in medicine)
18. Investigation of the biological absorption rate of copper from aqueous solution by algae (modified) obtained from the Persian Gulf (Master's thesis, advisor)
19. The effect of silymarin on serum adiponectin levels and cardiac biochemical factors in hypercholesterolemic desert rats (Master's thesis, supervisor)
20. Investigation of the effect of Sargassum oligocystum brown algae extract on serum glucose and lipid parameters in streptozotocin-induced diabetic desert rats (Medical, supervisor)
21. Investigation of the effect of milk thistle seed extract (silymarin) on serum glucose and lipid profile levels in streptozotocin-induced diabetic desert rats (Master's thesis, supervisor)
22. Investigation of the effect of aqueous extract of safflower and aerobic activity (swimming) on glycemic indices in streptozotocin-induced diabetic rats (Master's thesis, supervisor)
23. The effect of Otostegia persica alcoholic extract and high-intensity interval exercise on plasma and gene expression biomarkers indicative of white adipose tissue transformation to brown tissue in diabetic rats (Master's thesis, supervisor)
24. Investigation of the effect of high-intensity interval exercise, chicory, and gemfibrozil on the expression of the pgc-1alpha gene and the serum concentrations of betatrophin and irisin in hypertriglyceridemic rats (Master's thesis, supervisor)
25. Investigation of the cytotoxicity and biological activity of two new cisplatin derivatives on breast cancer cell lines (MDA-MB468 and MDA-MB231, SKBR-3, MCF-7) (Master's thesis, supervisor)
26. Investigation of the effect of Sargassum oligocytum brown algae extract on serum levels and gene expression of SIRT1 and FGF21 in streptozotocin-induced diabetic desert rats (Master's thesis, supervisor)

27. Investigation of the effect of endurance exercise, chicory, and gemfibrozil on the expression of the GLUT4 gene and serum ANGPTL4 concentrations in hypertriglyceridemic rats (Master's thesis, supervisor)
28. The effect of garlic aqueous extract and resistance exercise on biochemical parameters (plasma, gene) (Master's thesis, supervisor)
29. Investigating the effect of Spirulina extracts on telomerase activity in human colorectal cancer cell lines SW1116 and HCT116 (Master's thesis, advisor)
30. Investigating the effect of Sargassum boveanum extracts on telomerase activity in human colorectal cancer cell lines SW1116 and HCT116 (Master's thesis, advisor)
31. Effects of garlic aqueous extract and resistance exercise on white adipose tissue acquisition and gene expression of ANGPTL8, FNDC5, and GLUT4 in diabetic RDM16 rats.
32. Effects of garlic aqueous extract and resistance exercise on serum concentration and gene expression of ANGPTL8, FNDC5, and GLUT4 in diabetic RDM16 rats.
33. Investigating the effects of alcoholic hydroalcoholic extract of Cleome heratensis on serum levels of ANGPTL8 in hypertriglyceridemic rats.