

CURRICULUM VITAE

Sina Raeisi

PhD of Clinical Biochemistry

Personal Information



- **Name:** Sina
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- **Date of birth:** 21/03/1983
- **Place of birth:** Tabriz, Iran
- **Last Degree of Education:** PhD of Clinical Biochemistry, Assistant Professor
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https://scholar.google.com/citations?hl=en&user=YweS_NkAAAAJ&view_op=list_works&gmla=AJsNF5AaBZZcZPpSVBr_prRNZaEH15GtAWnx7OWcMlcVTeYCC1iLNDKNXDmGKCIHHSQACtExohhF1kmyYW6I0Ox8uuuDwIrJQ

Educational Experiences

- **Medical Laboratory Sciences**, Associate Degree, 23/09/2002-14/07/2004, **GPA=17.77/20**, Tabriz University of Medical Sciences (TUMS), Tabriz, Iran.
- **Medical Laboratory Sciences**, Bachelor's Degree, 22/09/2004-22/08/2006, **GPA=17.59/20**, TUMS, Tabriz, Iran.
- **Clinical Biochemistry**, M.Sc., 23/09/2006-13/05/2010, **GPA=17.93/20**, Urmia University of Medical Sciences, Urmia, Iran.
- **Clinical Biochemistry**, Ph.D., 21/01/2012-30/06/2016, **GPA=18.64/20**, TUMS, Tabriz, Iran.

Achievements and Honors

- The member of the Talented Students Office at Tabriz University of Medical Sciences.
- The award winner for the best scientific paper “15th International Congress of Nephrology, Dialysis, and Transplantation-2015-Mashhad-Iran”
- The Mentee-Mentor award winner for the best scientific paper (1000 USD) at “14th Transplantation Science Symposium-2015-Lorne-Australia”.
- The travel-award winner for the best paper at “28th European Congress of Clinical Microbiology and Infectious Diseases-2018-Madrid-Spain”

MSc Thesis Title: The Association of Helicobacter pylori, Inflammation, and Cardiac Syndrome X.

PhD Thesis Title: The Effect of Valsartan on Renal Klotho, Oxidative Stress, Telomere Length, and Telomerase in a Rat Model of Cyclosporine Nephropathy.

Publications list

1. Mehdizadeh A, Barzegar M, Negargar S, Yahyavi A, **Raeisi S**. The current and emerging therapeutic approaches in drug-resistant epilepsy management. *Acta Neurologica Belgica*. 2019 Mar 13:1-8.
2. Rahbari Banaeian Gh, Bilan N, Pakdel S, **Raeisi S**. The Role of Inflammatory Biomarkers in the Management of Children with Asthma. *Int J Pediatr* 2018; 6(12): 8727-35. DOI: 10.22038/ijp.2018.33621.2970
3. **Sina Raeisi**, Amir Ghorbanihaghjo, Hassan Argani, Siavoush Dastmalchi, Morteza Seifi, Babollah Ghasemi, Teimour Ghazizadeh, Mehran Mesgari Abbasi, Poursan Karimi. Oxidative Stress-Induced Renal Telomere Shortening as a Mechanism of Cyclosporine-Induced Nephrotoxicity. *Journal of Biochemical and Molecular Toxicology*. 2018 Jul 5:e22166. doi: 10.1002/jbt.22166. [Epub ahead of print]
4. **Raeisi S**, Ghorbanihaghjo A, Argani H, Dastmalchi S, Ghasemi B, Ghazizadeh T, Rashtchizadeh N, Nemati M, Abbasi MM, Bargahi N, Mota A. Effects of Angiotensin II Receptor Blockade on Soluble Klotho and Oxidative Stress in Calcineurin Inhibitor Nephrotoxicity in Rats. *Iranian journal of kidney diseases*. 2016 Nov 1;10(6):358-63.
5. Rasmi Y, **Raeisi S**, Mohammadzad S, Mir H. Association of Inflammation and Cytotoxin-Associated Gene A Positive Strains of Helicobacter Pylori in Cardiac Syndrome X. *Helicobacter*. 2012 Apr 1;17(2):116-20.
6. Rasmi Y, **Raeisi S**. Possible role of Helicobacter pylori infection via microvascular dysfunction in cardiac syndrome X. *Cardiology journal*. 2009;16(6):585-7.

7. Rasmi Y, Sadreddini M, Shahsavari Z, **Raeisi S**. Prevalence of Helicobacter pylori and cytotoxin-associated gene A in Iranian patients with non-erosive and erosive reflux disease.
8. Rasmi Y, Seyed-Mohammadzad MH, **Raeisi S**. Relationship Between High Sensitivity C-reactive Protein and CagA Positive Helicobacter pylori in Cardiac Syndrome X. Journal of Scientific Research. 2013 Aug 29;5(3):527-33.
9. Ghorbanihaghjo A, Hajjalilo M, Shahidi M, Kolahi S, Nakhjavani MR, **Raeisi S**, Argani H, Rashtchizadeh N. Osteoprotegerin (OPG) and Matrix Gla protein (MGP) in rheumatoid arthritis patients: Relation to disease activity. The Egyptian Rheumatologist. 2014 Jul 1;36(3):111-6.
10. Hajjalilo M, Rameshknia V, Ghorbanihaghjo A, Rashtchizadeh N, Khabbazi A, Kolahi S, Jafari-Nakhjavani MR, Yousefi B, **Raeisi S**, Shahidi M, Amanifar B. Dickkopf-1 levels and serum Osteoprotegerin in women with Osteoporosis. Journal of Analytical Research in Clinical Medicine. 2013 Jan 1;1(2):68-74.
11. Ghorbanihaghjo A, Argani H, Rashtchizadeh N, **Raeisi S**, Rashadi J. The Effect of Tuberculosis on Serum Receptor Activator of Nuclear Factor-k B Ligand, Osteoprotegerin, and Total Antioxidant Capacity. Indian Journal of Clinical Biochemistry. 2015 Oct 1;30(4):430-4.
12. Hajjalilo M, Ghorbanihaghjo A, Khabbazi A, Valizadeh H, **Raeisi S**, Hasani A, Varshochi M, Nakhjavani MR. Nasal carriage rate of Staphylococcus aureus among patients with systemic lupus erythematosus and its correlation with disease relapse. The Egyptian Rheumatologist. 2015 Apr 1;37(2):81-4.

13. Ghazizadeh T, Ghorbani Haghjo A, Argani H, **Raeisi S**, Safa J, Aliasgari J, Rashtchizadeh N. EVALUATION OF ANTIOXIDANT ACTIVITY OF KLOTHO IN HEMODIALYSIS PATIENTS AND RENAL TRANSPLANT RECIPIENTS. URMIA MEDICAL JOURNAL. 2015 Dec 15;26(9):743-53.
14. Argani H, Ghorbanihaghjo A, Vatankhahan H, Rashtchizadeh N, **Raeisi S**, Ilghami H. The effect of red grape seed extract on serum paraoxonase activity in patients with mild to moderate hyperlipidemia. Sao Paulo Medical Journal. 2016 Jun;134(3):234-9.
15. Naji HE, Ghorbanihaghjo A, Argani H, **Raeisi S**, Safa J, Alirezaei AH, Rashtchizadeh N. Serum sTWEAK and FGF-23 Levels in Hemodialysis and Renal Transplant Patients. International journal of organ transplantation medicine. 2017;8(2):110-116
16. Ahmadi R, Hajjalilo M, Ghorbanihaghjo A, Mota A, **Raeisi S**, Bargahi N, Valilo M, Askarian F. FGF-23, Klotho and vitamin D levels in scleroderma. Iranian journal of public health. 2017 Apr;46(4):530.
17. Ahmadi R, Ghorbani Haghjo A, Hajjalilo M, Mota A, Bargahi N, Askarian F, **Raeisi S**. VITAMIN D RECEPTOR POLYMORPHISMS (BSMI, TAQI) AND ITS ASSOCIATION WITH SERUM KLOTHO LEVELS IN PATIENTS WITH SCLERODERMA. The Journal of Urmia University of Medical Sciences. 2016;27(7):541-52.
18. Hajipour H, Hamishehkar H, **Raeisi S**, Barghi S, Hasani A. Epigallocatechin-3-gallate induces apoptosis through up-regulation of bax and down-regulation of Bcl-2 in prostate cancer cell line. International Journal of Medical Laboratory. 2016 Nov 15;3(4):262-9.

19. Seifi M, Ghasemi A, **Raeisi S**, Heidarzadeh S. Application of Next-generation Sequencing in Clinical Molecular Diagnostics. Brazilian Archives of Biology and Technology. 2017;60.

Abstracts in Congresses

1. **Sina Raeisi**, Hassan Argani, Amir Ghorbani Haghjo, et al. The effects of valsartan on oxidative stress in alleviation of cyclosporine nephrotoxicity. 15th International Congress of Nephrology, Dialysis and Transplantation. Mashhad-Iran 2015. **(Selected as the best paper for the award)**.
2. **Sina Raeisi**, Hassan Argani, Amir Ghorbanihaghjo, Siavoush Dastmalchi, et al. The effects of Valsartan on Klotho expression and oxidative stress in preventing of calcinurine inhibitor nephropathy. 14th Transplantation Science Symposium-2015-Lorne-Australia. **(Selected as the best paper for the award)**
3. **Sina Raeisi**, Babak Abdinia, Elnaz Rahimi Khamaneh, Azita Yahyavi. The association of Helicobacter pylori infection with Inflammation and Endothelial Dysfunction in Patients with Cardiac Syndrome X. 28th European Congress of Clinical Microbiology and Infectious Diseases-2018-Madrid-Spain. **(Selected as the best paper for the award)**.
4. **Sina Raeisi**, Amir Ghorbanihaghjo, Hassan Argani, Siavoush Dastmalchi, Babollah Ghasemi, Teimour Ghazizadeh, Nasrin Bargahi, Mehran Mesgari Abbasi, Akbar Samadi. The Effects of Valsartan on Renal Glutathione Peroxidase Expression in Alleviation of

Cyclosporine Nephrotoxicity in Rats. 9th international congress of Laboratory and Clinic 2017.

5. **Sina Raeisi**, Amir Ghorbanihaghjo², Hassan Argani³, Siavoush Dastmalchi⁴, Babollah Ghasemi⁵, Nazila Fathi⁶, Zahra Ashrafi⁷, Akbar Samadi⁸. The Effects of Valsartan and Cyclosporine on the Serum Levels of Erythropoietin and the Red Blood Cell Indices in Male Rats. 9th international congress of Laboratory and Clinic 2017.
6. **Sina Raeisi**, Mohammad Hassan Khadem Ansari, Yousef Rasmi. The effect of tart cherry juice on serum ApoA1, Apo B, Homocysteine and urine 8-isoprostane levels. The 9th Iranian congress of biochemistry & the 2nd international congress of Biochemistry and Molecular Biology Shiraz-Iran 2007 .
7. Yousef Rasmi, Masoud Sadreddini, Zahra Shahsavari, **Sina Raeisi**. Helicobacter pylori is not involved in enzymatic antioxidant systems in non-erosive reflux disease. The Second Iranian Congress of Clinical Microbiology 2008.
8. Yousef Rasmi, Masoud Sadreddini, **Sina Raeisi**, Zahra Shahsavari. Association between infections with cytotoxin associated gene A strain of Helicobacter pylori and glutathione peroxidase activity in patients with erosive reflux disease. The Second Iranian Congress of Clinical Microbiology 2008.
9. **Sina Raeisi**, Yousef Rasmi, Elnaz Rahimi Khamneh. Elevated circulating inflammatory markers in patients with cardiac syndrome X. The 10th Iranian congress of biochemistry & the 3rd international congress of Biochemistry and Molecular Biology Tehran-Iran 2009.
10. Yousef Rasmi, **Sina Raeisi**, Mohammad-Hossein mohhammadzadeh. Prevalence of CagA(+) Helicobacter Pylori in Iranian Subjects with Cardiac Syndrome X. CardioRhythm Conference, 20-22 Feb. 2009-Hong Kong.

11. Alireza Vahedpour, Elnaz Rahimi Khamaneh, **Sina Raeisi**, Leila Kazemi. The Effects of Fentanyl and Remifentanyl on Cardiovascular Responses to Tracheal Intubation in Patients Undergoing Cardiac Surgery. 2nd Iranian Congress on Cardiothoracic and Vascular Anesthesia, Iran-Yazd, 2009
12. Yousef Rasmi, **Sina Raeisi**, Mohammadhassan Khadem Ansari, Mir-Hossein Seyyedmohammadzad, Fariba Khosravi. Increased Inflammatory Factors in Cytotoxin Associated Gene A Positive Strain of Helicobacter Pylori in Cardiac Syndrome X. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology, Mashhad, Iran, Sep. 6-9 2011
13. **Sina Raeisi**, Yousef Rasmi. The Relation Between High Sensitivity C-reactive Protein and CagA+ Strain of Helicobacter Pylori in Patients with Cardiac Syndrome X. 12th Iranian Congress of Biochemistry & 4th International Congress of Biochemistry and Molecular Biology, Mashhad, Iran, Sep. 6-9 2011
14. **Sina Raeisi**, Yousef Rasmi, Mir-Hossein Seyyedmohammadzad, Elnaz Rahimi, Rana Ezzedini. Association of Inflammation Causes by Helicobacter Pylori in Pathogenesis of Cardiac Syndrome X. The First Iranian International Congress of Medical Bacteriology, Tabriz, Iran; sep. 5-8 2011
15. Rana Ezzedini, Masoud Darabi, Babollah Ghasemi,..., **Sina Raeisi**, et al. Role of Phospholipase-A2 in Pediatric Patients with Tonsillar Hyperplasia and Chronic Tonsillitis. (The First Iranian International Congress of Medical Bacteriology, Tabriz, Iran; sep. 5-8 2011)

16. Mohammadreza Alizadeh Ghodsi, Ali Zavari, **Sina Raeisi**. Aptamers as alternatives for antibodies in Therapeutic and Analytical applications. The 5th International Congress of Laboratory & Clinic-Tehran-Iran-2013
17. **Sina Raeisi**, Aghdas Maleki, Amir Ghorbanihaghjo, Hassan Argani, Nadereh Rashtchizadeh, Mohammadreza Alizadeh Ghodsi, Ali Zavari. The effects of Lovastatin on protein oxidation in the diabetic patients with nephropathy. The 5th International Congress of Laboratory & Clinic-Tehran-Iran-2013
18. **Sina Raeisi**, Hassan Argani, Amir Ghorbani Haghjo, et al. The effects of valsartan on oxidative stress in alleviation of cyclosporine nephrotoxicity. 15th International Congress of Nephrology, Dialysis and Transplantation. Mashhad-2015.
19. **Sina Raeisi**, Hassan Argani, Amir Ghorbanihaghjo, Siavoush Dastmalchi, et al. The effects of Valsartan on Klotho expression and oxidative stress in preventing of calcinurine inhibitor nephropathy. 14th Transplantation Science Symposium-2015-Lorne-Australia
20. Zarghami N, **Raeisi S**, Alizadeh MR, Zavari A, Ashori MR, Abdinia B. The Usefulness of Procalcitonin and C-reactive protein As Early Diagnostic Markers of Sepsis. Drug and Healthy Children Congress-2013
21. Zarghami N, **Raeisi S**, Alizadeh MR, Zavari A, Ashori MR, Abdinia B. Molecular Aspects of Childhood Obesity: Current Status and Future Prospects. Drug and Healthy Children Congress-2013
22. Azita Yahyavi, Masoud Parish, Alireza Sadeghpour, Amin Moradi, Alireza Rouhani, Elnaz Rahimi Khamneh, **Sina Raeisi**. Comparison of postoperative outcome after spinal versus general anesthesia for total hip and total knee arthroplasty. Tabriz anesthesia 2016.

23. Azita Yahyavi, Masoud Parish, Naghi Abedini, Alireza Rouhani, Elnaz Rahimi Khamneh, **Sina Raeisi**. The comparison of high-energy with low-energy extracorporeal shock wave in Calcifying tendinitis of the shoulder treatment. Tabriz anesthesia 2016.

Professional Experiences

I finished my PhD in Clinical Biochemistry in Department of Biochemistry and Clinical Laboratories, Faculty of Medicine, Tabriz University of Medical Sciences, Tabriz, Iran. I worked on the renal oxidative stress, renal telomere length, and telomerase activity in a rat model of cyclosporine-nephrotoxicity as my PhD thesis.

As my MSc thesis, I had worked on Helicobacter pylori, systemic inflammation, and cardiac syndrome x. I have been working as an Assistant Professor in Pediatric Health Research Center of Tabriz University of Medical Sciences, Tabriz, Iran since Aug 24, 2017. Also, I have more than seven years' experience of working as a Lab Analyst in a Clinical Laboratory (Division of Clinical

Laboratory, Tabriz Children Hospital, Tabriz University of Medical Sciences,
Tabriz, Iran).

Laboratory Skills

- Venous Blood Sampling
- Rutin Lab. tests (Complete Blood Count, WBC Diff., CSF analysis, Biochemistry Auto-Analyser, ...)
- Animal Models
- DNA extraction (Blood, Tissue)
- RNA extraction (Blood, Tissue)
- Spectrophotometry
- ELISA

- PCR
- Real-Time PCR
- Electrophoresis (Agarose, SDS-PAGE)
- Western Blotting
- Southern Blotting

Other Skills

- Microsoft Office
- SPSS
- EndNote Reference Manager

Interests

I am interested in studying the signal transduction pathways, oxidative stress, inflammation, proteins exhibiting mutations and structural changes, and their association with the human diseases such as Cancer, Neurological Diseases, and Cardiovascular Diseases to understand the underlying mechanisms and potential therapeutics.