 **Sina Raeisi**

**Address:** Pediatric Health Research Center, Zahra Mardani Azari Children Training, Research & Treatment Center, Mardani Azari street, Khavaran town, Tabriz, Iran.

P.O Box: 5143377505

**Mobile Phone:** +98 (0)914 401 3786

**Emails:** sina\_raeisi7007@yahoo.com; raeisis@tbzmed.ac.ir

**ORCID ID:** 0000-0003-4466-328X

**LinkedIn:** https://www.linkedin.com/in/sina-raeisi-7641bb97/

|  |
| --- |
| **SUMMARY** |
| Clinical Biochemist (PhD)I am a researcher. I am interested in studying novel methods and approaches in diagnosing and treating challenging human disorders and understanding the underlying mechanisms. |
| **WORK EXPERIENCE** |
| * **Researcher** at Pediatric Health Research Center of Tabriz University of Medical Sciences (TUMS), Tabriz, Iran.

**Responsibilities:** Proposal writing; designing and executing experiments; data analyzing; manuscript writing; teaching as a lecturer (Biochemistry); mentoring medical, MSc, and PhD students. | **Since 2017** |
| * **Lab Analyst** at Division of Clinical Laboratory, Tabriz Children Hospital, TUMS, Tabriz, Iran

**Responsibilities:** Phlebotomy; preparing of samples; running of routine tests; recording test data and results; reporting results. | **2009-2012** |
| * **Lab Analyst** at Tabriz Genetic Analysis Center, Tabriz, Iran

**Responsibilities:** Running molecular diagnostic tests; setting up new molecular tests; reporting results. | **2008-2009** |
| **EDUCATION** |  |
| * **Clinical Biochemistry,** Ph.D.,TUMS, Tabriz, Iran.
 | **2012 – 2017** |
| * **Clinical Biochemistry,** M.Sc.,Urmia University of Medical Sciences, Urmia, Iran.
 | **2006 – 2010** |
| * **Medical Laboratory Sciences,** Bachelor’s Degree, TUMS, Tabriz, Iran.
 | **2004 – 2006** |
| * **Medical Laboratory Sciences,** Associate Degree, TUMS, Tabriz, Iran.
 | **2002 – 2004** |
| **ACHIEVEMENTS and HONORS** |  |
| * Distinguished Student Award winner, TUMS.
 | **2016** |
| * Distinguished Student Award winner, TUMS.
 | **2004** |
| * The member of the Talented Students Office, TUMS.
 | **2014 – 2017** |
| * The award winner for the best scientific paper at “15th International Congress of Nephrology, Dialysis, and Transplantation-Mashhad-Iran”.
 | **2015** |
| * International Basic Science Mentee-Mentor Award (1000 USD) winner for the excellence of our abstract at “14th Transplantation Science Symposium-Lorne-Australia”.
 | **2015** |
| **SKILLS** |
| Phlebotomy; routine lab tests (CBC, WBC Diff., CSF analysis, Biochemistry Auto-Analyser, …); cell culture, animal models (mouse and rat); DNA and RNA extraction (Blood, Tissue); Spectrophotometry; ELISA; PCR; Real-Time PCR; LAMP, Electrophoresis (Agarose, SDS-PAGE); Protein purification; Western Blotting; Southern Blotting; Immunohistochemistry; Flowcytometry; HPLC.Microsoft Office; SPSS; EndNote Reference Manager. |
| **INTERESTS** |
| The roles of ketogenic diet, Klotho, neurotransmitters, epigenetic modifications, gene regulation, microbiota, biomarkers, and novel methods and approaches in diagnosing and treating human diseases (especially neurological and aging-related disorders) and understanding the underlying mechanisms. |
| **GOOGLE SCHOLAR Link** |
| https://scholar.google.com/citations?hl=en&user=YweS\_NkAAAAJ&view\_op=list\_works&gmla=AJsNF5AaBZZcZPpSVBr\_prRNZaEH15GtAWnx7OWcMIcVTeYCC1iLNDKNXDmGKClHHsQACtExohhF1kmyYW6I0Ox8uuuDwIrJQ  |
| **PUBLICATIONS** |
| 1. Poursistany H, Azar ST, Azar MT, **Raeisi S**\*. The current and emerging Klotho-enhancement strategies. Biochemical and Biophysical Research Communications. 2023 Dec 10:149357.
2. Ranjbar N, Raeisi M, Barzegar M, Ghorbanihaghjo A, Shiva S, Sadeghvand S, Negargar S, Poursistany H, **Raeisi S\***. The possible anti-seizure properties of Klotho. Brain Research. 2023 Aug 25:148555.
 |
| 1. Poorshiri B, Barzegar M, Afghan M, Shiva S, Shahabi P, Golchinfar Z, Nodeh HR, **Raeisi S\***. The effects of ketogenic diet on beta-hydroxybutyrate, arachidonic acid, and oxidative stress in pediatric epilepsy. Epilepsy & Behavior. 2023 Mar 1;140:109106.
 |
| 1. Barzegar M, Afghan M, Tarmahi V, Behtari M, Rahimi Khamaneh S, **Raeisi S\***. Ketogenic diet: overview, types, and possible anti-seizure mechanisms. Nutritional neuroscience. 2021 Apr 3;24(4):307-16.
 |
| 1. Poorshiri B, Barzegar M, Tahmasebi S, Shiva S, **Raeisi S**, Ebadi Z. The efficacy comparison of classic ketogenic diet and modified Atkins diet in children with refractory epilepsy: a clinical trial. Acta Neurologica Belgica. 2021 Apr;121(2):483-7.
 |
| 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 Jun;119(2):155-62.
 |
| 1. Danaiyan S, Mesgari Abbasi M, **Raeisi S**, Argani H, Ghorbanihaghjo A, Shanehbandi D, Roshangar L, Poursistany H, Abedi S, Mohammadian J, Bahremani M, Rashtchizadeh N\*. The Effects of Remdesivir and Dexamethasone on renal function and Sirtuin-1 expression in male rats. Applied Biochemistry and Biotechnology. 2023 May 11:1-1.
 |
| 1. Jahanshahi A, Hiradfar A, Mahboubi S, Hosseinpour Feizi A, Shakeri Bavi A, Mostafavijabbari A, Yousefi Nodeh HR\*, **Raeisi S\***. The Predictive Value of Abdominal Ultrasonography Compared to CT scan for the Evaluation of Pediatric Lymphoma. Iranian Journal of Pediatric Hematology and Oncology. 2023 Mar 10;13(2):79-86.
 |
| 1. Poorshiri B, **Raeisi S**, Barzegar M. A Toddler with Acute Encephalitis Associated With COVID-19: A Case Report. Clinical Pediatrics. 2022 Jan 26:00099228211059347.
 |
| 1. Khiabani NH, Barzegar M, **Raeisi S**, Chaleshtori MJ, Heidarabady S, Gharehgoz AB. Comparison of the Performance of Iranian Azeri-Speaking Children Based on Iran and Reference Bayley III Norms. Iranian Journal of Child Neurology.;16(2):39-52.
 |
| 1. Barzegar M, Poorshiri B, Yousefi L, **Raeisi S**, Bakhtiary H, Milani AE, Ebadi Z. The clinical and paraclinical manifestations of tuberous sclerosis complex in children. Acta Neurologica Belgica. 2021 Mar 18:1-6.
 |
| 1. Hosseini M, Roshangar L, **Raeisi S\***, Ghahremanzadeh K, Negargar S, Tarmahi V, Hosseini V, Raeisi M, Rahimi E, Ebadi Z. The therapeutic applications of exosomes in different types of diseases: A review. Current Molecular Medicine. 2021 Feb 1;21(2):87-95.
 |
| 1. Tarmahi V, Afghan M, **Raeisi S\***, Yousefi Nodeh HR, Tamaddon M, Moahamadzadeh F, Mohammadzadeh N, Ebadi Z. The Accuracy of Enzyme-Linked Immunosorbent Assay in the Diagnosis of COVID-19 in Iranian Children. International Journal of Pediatrics. 2021 Jul 1;9(7):13937-45.
 |
| 1. Bilan N, Amirikar F, **Raeisi S**. Diagnostic Value of Changes in Serum Calprotectin Level and Patients' Sputum in Response to Treatment of Cystic Fibrosis Exacerbation in Children. International Journal of Pediatrics. 2021 May 1;9(5):13569-79.
 |
| 1. **Raeisi S**, Bakhtiary H, Barzegar M. A patient with tuberous sclerosis complex and spinal muscular atrophy; a case report. International Journal of Pediatrics. 2020 Aug 1;8(8):11855-60.
 |
| 1. Hosseini M, Valizadeh E, Hosseini N, Khatibshahidi S, **Raeisi S\***. The Role of Infant Sex on Human Milk Composition. Breastfeeding Medicine. 2020 May1;15(5):341-6.
 |
| 1. Poorshiri B, Barzegar M, **Raeisi S**, Afghan M. Tay-Sachs Disease in Two Iranian Identical Male Twins; A Case Report. International Journal of Pediatrics. 2020 May1;8(5):11355-9.
 |
| 1. Hosseini M, Azampour H, **Raeisi S\***, Behtari M, Valizadeh H, Saboohi R. The effects of enteral artificial amniotic fluid-containing erythropoietin on short term outcomes of preterm infants. The Turkish Journal of Pediatrics. 2019;61(3), 392-398.
 |
| 1. **Raeisi S**, Chavoshi H, Mohammadi M, Ghorbani M, Sabzichi M, Ramezani F. Naringenin-loaded nano-structured lipid carrier fortifies oxaliplatin-dependent apoptosis in HT-29 cell line. Process Biochemistry. 2019;83:168-175.
 |
| 1. 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.
 |
| 1. **Raeisi S**, Ghorbanihaghjo A, Argani H, Dastmalchi S, Seifi M, Ghasemi B, Ghazizadeh T, Abbasi MM, Karimi P. Oxidative stress‐induced renal telomere shortening as a mechanism of cyclosporine‐induced nephrotoxicity. Journal of biochemical and molecular toxicology. 2018 Aug;32(8):e22166.
 |
| 1. Seifi M, Ghasemi A, **Raeisi S**, Heidarzadeh S. Application of next-generation sequencing in clinical molecular diagnostics. Brazilian Archives of Biology and Technology. 2017 May 18;60.
 |
| 1. Ahmadi R, Hajialilo 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.
 |
| 1. 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.
 |
| 1. 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 10;3(4):262-9.
 |
| 1. **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.
 |
| 1. Ahmadi R, Ghorbanihaghjo A, Hajialilo M, Mota A, **Raeisi S**, Bargahi N, Askarian F. Vitamin D Receptor Polymorphisms (BSMI, TAQI) and Its Association with Serum Klotho Levels in Patients with Scleroderma. Studies in Medical Sciences. 2016 Oct 10;27(7):541-52.
 |
| 1. 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 May 13;134:234-9.
 |
| 1. 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 Recipient. Studies in Medical Sciences. 2015 Dec 10;26(9):743-53.
 |
| 1. 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;30(4):430-4.
 |
| 1. Hajialilo 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.
 |
| 1. Ghorbanihaghjo A, Hajialilo 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.
 |
| 1. Hajialilo 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 Research in Clinical Medicine. 2013 Oct 1;1(2):68-74.
 |
| 1. 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.
 |
| 1. 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.
 |
| 1. Rasmi Y, **Raeisi S**. Possible role of Helicobacter pylori infection via microvascular dysfunction in cardiac syndrome X. Cardiology journal. 2009;16(6):585-7.
 |
| 1. 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.
 |
| **ORAL PRESENTATIONS** |
| 1. **Sina Raeisi\***, Mohammad Barzegar, Bita Poorshiri, Mohammadreza Afghan, Vahid Tarmahi. The Effects of Ketogenic Diet on Beta-Hydroxy Butyrate, Arachidonic Acid, and Oxidative Stress in Pediatric Epilepsy. 17th International Child Neurology Congress (ICNC), Antalya, Turkey-2022.
 |
| 1. **Sina Raeisi\***, Mohammad Barzegar, Sohrab Negargar, Elnaz Rahimi Khamaneh, Zakieh Ebadi, Hamidreza Yousefi. The Current and Emerging Therapeutic Approaches in Drug-Resistant Epilepsy Managemen. 2nd International Conference on Neurovascular and Neurodegenerative Diseases (NVND). Paris-France-2019.
 |
| 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).
 |
| 1. **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).
 |
| **REFERENCES** |
| **Mohammad Barzegar (Pediatric Neurologist, Professor)**Pediatric Health Research Center, TUMS, Tabriz, Iran  | Email: mm\_barzegar@yahoo.com; Cell: +989141170492 |
| **Amir Ghorbanihaghjo (Clinical Biochemist, Professor)**Department of Clinical Biochemistry and Laboratory Medicine, TUMS, Tabriz, Iran | Email: ghorbaniamir@hotmail.com; Cell: +989143147238 |
| **Ebrahim Sakhinia (Professor of Human Genetics)**Department of Medical Genetics, Faculty of Medicine, TUMS, Tabriz, Iran | Email: esakhinia@yahoo.co.uk; Cell: +989356022153 |