 **Sina Raeisi**

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| **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. | | |
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| 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. | | |
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| 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** | | |
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| **Amir Ghorbanihaghjo (Clinical Biochemist, Professor)**  Department of Clinical Biochemistry and Laboratory Medicine, TUMS, Tabriz, Iran | Email: [ghorbaniamir@hotmail.com](mailto: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](mailto:esakhinia@yahoo.co.uk);  Cell: +989356022153 | |