



Asad Vaisi Raygani

Associate Professor of Clinical Biochemistry at Clinical Biochemistry Department, Kermanshah University of Medical Sciences, Kermanshah, Iran

CV (Curriculum Vitae)

Personal Information

First Name: Asad
Last Name: Vaisi-Raygani
Date of Birth: 18/Nov/1959
Nationality: Iranian
Marital Status: Married, 2 children

Contacts

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Employment

1990- Present Kermanshah University of Medical Sciences
Biochemistry Lecture of Kermanshah Medical Faculty

Education

- **Ph.D.** in Clinical Biochemistry
Faculty of Medicine, Tehran University of Medical Sciences Tehran, 2004
Research advisors: Prof.Mahine Zahraie
Dissertation: *Study of Synergism between Butyrylcholinestrace K variant and Apolipoprotein E Genotypes in Alzheimer's Disease in Tehran Population, Iran.*
- **M.Sc.** Faculty of Medical Sciences, Isfahan, Iran, 1994.
Research advisors: Professor Hamid Rahi
Dissertation: *Genotyping of butyrylcholinesterase in Kermanshah population (Iran)*
- **License** in Qualifying teaching, Isfahan University of Medical Sciences, Isfahan , Iran, 1994.
- **B.Sc.** in Chemistry
Faculty of Science, Razi University, Kermanshah,Iran, 1987.

Awards and Honors

Ranked two in BSc course
Ranked one in MSc course
Ranked one in Ph.D course
Awards as a researcher in 2010,2009, 2008, 2007,2006 and 2004 from Kermanshah University of Medical Sciences
Introducing as a senior lecturer to the Education and health Ministry 2007-2008
Introducing as a senior lecturer in Kermanshah University of Medical Sciences 2007
Top PhD student, 2003, Tehran University of Medical Sciences

Experimental Techniques and procedures

The following list shows some of the experimental techniques and procedure with which I am familiar and use in my research program. I also teach biochemistry laboratories and chemistry where many of these techniques are thought to the students.

- Polymerase chain Reaction
- RNA and DNA preparation for PCR, RFLP, ARMS
- Analysis of proteins including purification, polyacrylamide gel, isoelectrofoucsing (IEF), starch gel, nitro cellulose acetate gel

- Analysis of DNA and RNA, including agarose gel and acrylamide gel
- Enzyme kinetic , genotyping and detection by functional assay
- Nitric oxide assay
- Analysis of Hb, including determination of Thalasemia and Hemoglobinopathy such as cycle cell anemia.
Analysis of substance with HPLC

Reviewer:

Reviewer of Clinical Biochemistry Journal

Reviewer of European Journal of Clinical Laboratory Investigation

Reviewer of European Journal Lipid Science Technology

Reviewer of Neuroscience Letters

Reviewer of Pharmacogenomics

Reviewer of Archives Medical Research

Reviewer of Molecular Biology Reports

Reviewer of AGE

Reviewer of African Journal Biotechnology

Reviewer of Behbood Journal of Kermanshah University of Medical Sciences. Iran,

Lecturer present in scientific educational group in education office.

Memberships

1. Iranian Biochemical Society

Publications

[1] **Raygani AV**, Zahrai M, Solt Anzadeh A, Doosti M, Javadi E, Pourmotabbed T. Analysis of association between butyrylcholinesterase K variant and apolipoprotein E genotypes in Alzheimer's disease. **Neuroscience Letters** 2004; 371(2-3):142-6.

[2] **Raygani AV**, Zahrai M, Vaisi Raygani A, Doosti M, Javadi E, Rezaei M, Pourmotabbed T. Association between apolipoprotein E polymorphism and Alzheimer disease in Tehran, Iran. **Neuroscience Letters** 2005;375:1-6

- [3] Kharrazi H, **Vaisi Raygani A**, Sabokroh AR, Pourmotabedd T. Association between apolipoprotein E polymorphism in coronary artery disease patients in Kermanshah, in west of Iran. **Clinical Biochemistry** 39 (2006) 613–616.
- [4] Rahimi Z, **Vaisi Raygani A**, Merat A, Haghshenass M, Gerard N, Nagel RL, Krishnamoorthy R. Thalassaemic mutations in Southern Iran. **Ir J Med Sci**. 2006, 31 (2):70-73.
- [5] Rahimi Z, **Vaisi Raygani A**, Siabani S, Mozafari H, Nagel RL, Muniz A. Prevalence of glucose-6-phosphate dehydrogenase deficiency among school boys in Kermanshah. **Eastern Med. Health J**. 2008.
- [6]. **Vaisi-Raygani A**, Rahimi Z, Pourmotaabed A. Antioxidant defense in patients with Alzheimer disease. **Acta Medica Iranica**, 2007 45(4): 271-276;
- [7]. **Raygani AV**, Rahimi Z, Kharrazi H, Tavidani H, Pourmotaabed A. Association between apolipoprotein E polymorphism blood profiles lipids, lipoproteins and apolipoproteins with Alzheimer's disease. **Neuroscience Letters** 408 (2006) 68–72.
- [8]. Rahimi Z, **Vaisi-Raygani A**, Nagel RL, Muniz A. Molecular characterization of glucose-6-phosphate dehydrogenase deficiency in the Kurdish population of Western Iran. **Blood Cells, Molecules, and Diseases** 37 (2006) 91–94.
- [9]. H. Tavidani, M. Doosti, K. Abdi, **A. Vaisiraygani** & H. R. Joshaghani. Decreased polyunsaturated and increased saturated fatty acid concentration in spermatozoa from asthenozoospermic males as compared with normozoospermic males. **Andrologia** 38 (2006) 173–178.
- [10]. **Vaisi-Raygani A**, Rahimi Z, Kharrazi H, Tavidani H, Amminian M, Pourmotaabed T. Determination of butyrylcholinesterase (BuChE) phenotypes to predict the risk of prolonged apnea in persons receiving succinylcholine in the healthy population of Western Iran. **Clinical Biochemistry**. 40 (2007) 629–633
- [11] **Vaisi-Raygani A**, Kharrazi H, Rahimi Z, Pourmotaabed T. Frequencies of Apolipoprotein E Polymorphism in Healthy Kurdish Population from Kermanshah, Iran. **Human Biology**. Detroit: Oct 2007. Vol. 79, Iss. 5; pg. 579, 9
- [12] Rahimi Z, **Vaisi-Raygani A**, Mozafari H, Kharrazi H, Rezaei M, Nagel RL. Prevalence of Factor V Leiden (G1691A) and Prothrombin (G20210A) among Kurdish Population from Western Iran. **J Thromb Thrombolysis**. 2008, 25: 280-283
- [13] Rahimi Z, **Vaisi-Raygani A**, Nagel RL, Muniz A. An Iranian boy with Hb Q-Iran/IVSII.I G:A/- $\alpha^{3.7kb}$ deletion: First report. **J Pediatr Hematol Oncol**. 2007 29(9); 649-651.
- [14] Rahimi Z, **Vaisi-Raygani A**, Nagel RL, Muniz A. Thrombophilic Mutations among Southern Iranian Patients with Sickle Cell Disease: High Prevalence of Factor V Leiden. **J Thromb Thrombolysis**. 2008, 25: 288-292.
- [15] Lakpour N, Modaresi MH, Kharrazi H, Akhondi MM, **Vaisi-Raygani A**, Ghasemi J, Hodjat M, Sadeghi M.R. Polymorphism in Phospholipid Hydroperoxide Glutathione Peroxidase (PHGPX) gene in Iranian infertile men. **Reproduction Infertility**. 7(3) (2006) 1726-7538.

[16] **Vaisi-Raygani A**, Rahimi Z, Nomani H, Tavilani H, Pourmotaabed T. The presence of apolipoprotein $\epsilon 4$ and $\epsilon 2$ alleles augments the risk of coronary artery disease in Type 2 diabetic patients. **Clinical Biochemistry**. 40 (2007) 1150–1156b (2007).

[17] **Vaisi-Raygani A**, Rahimi Z, Entezami H, Bahrhemand F, Tavilani H, Rzaei M, Kiani A, Nomanpour B, Pournatabbed T. Butyrylcholinesterase K variants increase the risk of coronary artery disease in the population of western Iran. **Scand J Clin Lab Invest** 2008; 68(2): 123–129.

[18]. Tavilani H, Doosti M, Nourmohammadi I, Mahjub H, **Vaisiraygani A**, Salimi S, Hosseinipannah SM. Lipid composition of spermatozoa in normozoospermic and asthenozoospermic males. **Prostaglandins, Leukotrienes and Essential Fatty Acid**. 2007 Jul;77(1):45-50.

[19] Tavilani H, Goodarzi MT, Doosti M, Nourmohammadi I, **Vaisi-Raygani A**, Hassanzadeh Ghasbeh T1, Salimi S4, Joshaghani HR. Relationship between seminal antioxidant enzymes and the phospholipid and fatty acid composition of spermatozoa. Reproductive. **BioMedicine Online**; 2008 16(5)643-650

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[21]. Lakpour N. Kharrazi H. Akhondi M.A. **Raygani A.V**. Modaresi M.H. Jafarian A, Savadi Shirazi E. Hodjat M. Sadeghi M.R. The relationship between oxidative stress and sperm DNA damage in normozoospermic men and men with abnormal sperm parameters. **Tehran University Medical Journal; Vol. 65, Supplement 3, 2008: 11-19.**

[22] **Vaisi-Raygani A**, Rahimi Z, Kharrazi H, Tavilani H, Aminian M, Pourmotaabed T. Association between enzymatic and non enzymatic antioxidant defense mechanism with apolipoprotein E genotypes in Alzheimer disease. **Clinical Biochemistry**. 41 (2008) 932–936.

[23] Tavilani H, Goodarzi MT, **Vaisi-raygani A**, Salimi S, Hassanzadeh T. Activity of Antioxidant Enzymes in Seminal Plasma and their Relationship with Lipid Peroxidation of Spermatozoa. **Int Braz J Urol**. 2008 Jul-Aug;34(4):485-91.

[24] Rahimi Z, **Vaisi-Raygani A**, M Merat1, M. Haghshenass, M. Rezaei. Level of Hemoglobin F and Gg Gene Expression in Sickle Cell Disease and Their Association with Haplotype and XmnI Polymorphic Site in South of Iran. **Iran J Med Sci December 2007; Vol 32 No 4 234**

[25] **Vaisi-Raygani A**, Tavilani H, Rahimi Z, Zahrai M, Sheikh N, Aminian M, Pourmotaabed T. Serum butyrylcholinesterase activity and phenotype associations with lipid profile in stroke patients. **Clinical Biochemistry**. 2009,42:210-214.

[26] Rahimi Z, **Vaisi-Raygani A**, Mozafari H, Nomani H. Factor V G1691A, Prothrombin G20210A and Methylenetetrahydrofolate Reductase C677T Polymorphism Are not Associated With Coronary Artery Disease and Type 2 Diabetes Mellitus in Western Iran. **Blood Coagul & Fibrinolysis**. 2009; ,20:252-256

[27] Rahimi Z, Mozafari H, Amiri Bigvand AH, Doulabi RM, **Vaisi-Raygani A**, Afshari D, Razazian N, Rezaei M. Cerebral Venous and Sinus Thrombosis and Thrombophilic Mutations in Western Iran: Association with Factor V Leiden. **Clin Appl Thromb Hemost**. 2009 In Press

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- [29] Rahimi Z, Muniz A, Akramipour R, Tofieghzadeh F, Mozafari H, **Vaisi-Raygani A**, Parsian A. Haplotype analysis of beta thalassemia in Western Iran. *Blood Cells Mol & Dis*. 2009, 42:140-143
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- [33] Tavilani H, **Vaisi-Raygani A**, Adenosine deaminase activity during menses, follicular and luteal phases of the menstrual cycle. *Eur J Obstet Gynecol Reprod Biol*. 155 (2011) 233–234[✓]
- [34] Madani H, Rahimi Z, Manavi-Shad M, Mozafari H, Akramipour R, **Vaisi-Raygani A**, Rezaei M, Malek-Khosravi S, Shakiba E, Parsian A. Plasma lipids and lipoproteins in children and young adults with major β-thalassemia from western Iran: influence of genotype. *Mol Biol Rep*. 2011 Nov 18.
- [35] Rahimi M, Hasanvand A, **Rahimi Z**, **Vaisi-Raygani A**, Mozafari H, Rezaei M, Zargooshi j, Najafi F, Shakiba E. Synergistic effects of the MTHFR C677T and A1298C polymorphisms on the increased risk of micro- and macro-albuminuria and progression of diabetic nephropathy among Iranians with type 2 diabetes mellitus. *Clin Biochemi*. 43 (2010) 1333–1339.
- [36] Rahimi Z, Ahmadian Z, Akramipour R, **Vaisi-Raygani A**, Rahimi Z, Parsian A. Thymidylate synthase and methionine synthase polymorphisms are not associated with susceptibility to childhood acute lymphoblastic leukemia in Kurdish population from Western Iran. *Mol Biol Rep Article Accept for Publication* 2011.
- [37] Saedi M, **Vaisi-Raygani A**, Khaghani S, Sharifabrizi A, Rezaie M, Pasalar P, Rahimi Z, Pourmotabbed T. Matrix metalloproteinase-9 functional promoter polymorphism 1562C>T increased risk of early-onset coronary artery disease. *Mol Biol Rep*. Article Accept for Publication 2011.
- [38] Nomani H, Mozafari H, Ghobadloo SM, Rahimi Z, Raygani AV, Rahimi MA, Haghi AF, Keshavarz AA. The association between GSTT1, M1, and P1 polymorphisms with coronary artery disease in Western Iran. *Mol Cell Biochem*. 2011 Aug;354(1-2):181-7.
- [39]. Jafari Y, Rahimi Z, **Vaisi-Raygani A**, Rezaei M. Interaction of eNOS polymorphism with MTHFR variants increase the risk of diabetic nephropathy and its progression in type 2 diabetes mellitus patients. *Mol Cell Biochem*. 2011 Jul;353(1-2):23-34.

Congress:

ABSTRACTS

- **1. Vaisi Raygani A, Rahi H, Vaisi Raygani AA.** Screening of butyrylcholinesterase (BCHE) genotype in order to evaluate the risk of prolonged apnea after receives succinylcholine. **10th APCCB 18-23 Sep 2004. Perth- Australia.**

- **2. Asad Vaisi Raygani, Mahine Zahrai, Akbar Soltanzadeh, Mahmood Doosti, Ebrahim Javadi .** Association between apolipoprotein E polymorphism and Alzheimer's disease in an Iran population. **10th APCCB 18-23 Sep 2004. Perth-Australia.**

- **3. Asad Vaisi Raygani, Mahine Zahrai, Akbar Soltanzadeh, Mahmood Doosti, Ebrahim Javadi.** Analysis of association between apolipoprotein E genotypes , the K variant of butyrylcholinesterase (BChE-K) in Alzheimer's disease (AD). **10th APCCB 18-23 Sep 2004. Perth-Australia.**
 - **4. Vaisi Raygani A, Rahi H, Vaisi Raygani AA.** Genotyping of butyrylcholinesterase in west of IRAN (Kermanshah). Presented at the **15th IFCC–FESCC European Congress of Clinical Chemistry and Laboratory Medicine (EUROMEDLAB); Barcelona, Spain Jan 1-5.2003.**

 - **5. Vaisi Raygani A, Rahi H** Liver of biochemical tests during pregnancy. Presented at the **15th IFCC–FESCC European Congress of Clinical Chemistry and Laboratory Medicine (EURGMDLSB); Barcelona, Spain Jan 1-5.2003.**

- 6. Rahimi Z, Bahrehmand F, vaisiraygani A.** Plasma lipids in Iranians with sickle cell disease: Hypocholesterolemia in sickle cell anemia and increase of HDL-cholesterol in sickle cell trait. **Euro Fed Lipid. Madrid, Spain, October 2006.**

- 7. Kharrazi, H., Vaisi Raygani, A . Sabokroh, A.R. , and Pourmotabedd, T.** Association between Apolipoprotein E Polymorphism in Coronary Artery Disease Patients in Kermanshah Population, in West of Iran. Presented at the **4th Euro Fed Lipid Congress - Fats, Oils and Lipids for a Healthier Future, Madrid, 01 -04 October 2006**

- 8. Asad Vaisi Raygani, Ali Akbar Vaisiraygani.** Analysis of Association Between Plasma Lipids and Lipoproteins Levels in Alzheimer's Disease (AD) Presented at the **4th Euro Fed Lipid Congress - Fats, Oils and Lipids for a Healthier Future, Madrid, 01 -04 October 2006.**

9. Rahimi Z, Mozafari H, **Vaisi-Raygani A**, Nagel RL. Muniz A. Prevalence of Factor V Leiden (G1691A) and Prothrombin (G20210A) among Healthy Population from Western Iran. **The 12th Congress of the European Hematology Association (EHA12), Vienna, Austria, June 2007**
10. Rahimi Z, **Vaisi Raygani A**, Nagel RL. Apolipoprotein E genotypes in Iranians with sickle cell disease. **The 11th Congress of the European Hematology Association (EHA11), Amsterdam, The Netherlands, June 2006**
11. **Rahimi Z**, Vaisi Raygani R, Nemati H, Nagel RL. Muniz A. Molecular characterization of glucose-6-phosphate dehydrogenase deficiency in Western Iran. **The 11th Congress of the European Hematology Association (EHA11), Amsterdam, The Netherlands, June 2006**
12. **Vaisi-Raygani A**, Rahimi, Z, Tavilani H, Vaisi-Raygani AA, Gharb S. Butyrylcholinesterase-K variant and APOE-ε4 allele work in synergy to increase risk of coronary artery disease. **Cardiac Society of Australia and New Zealand Annual Scientific Meeting. Sydney, Australia, August 2009**
13. **Vaisi Raygani A**, Rahi H, 3 th Biochemistry congress and Laboratory Sciences, **Tabriz Iran,1995.**
14. Rahi H, kiani A, Vaisi Raygani A, 1th Biochemistry and Laboratory Sciences congress, **Tehran,Iran,1991.**
15. **Vaisi Raygani A**. The biochemical basis of Alzheimer's disease. **Oral presented at the seminar of Geriatric Medicine,Tehran,Iran (2003).**
16. **Vaisi Raygani A**. The effect of non standard sampling on the laboratory results. **Oral presented at the episodic training seminar for Pathologists and Laboratory Sciences Specialists, Kermanshah, Iran (2003).**

Research project

1. Vaisi-Raygani A, Zahraie M, Javadi E, Larijani M. Study of the association between apolipoprotein E (APO E2, E3, E4) genotypes with lipid profile levels (APO A1,APO B,LP(a),HDL-cholesterol,LDL-cholesterol,total cholesterol, triglyceride) in patients with Alzheimer's disease in Shariati hospitals depended to Tehran University of medical sciences in 2003(TUMS grant).
2. Vaisi Raygani A, Zahraie M, Norozian F. The study of antioxidant enzymatic blood profile: super oxide dismutase, glutathione peroxidase, catalase and total antioxidant capacity in patients with alzheimer's disease in Rozbeh hospitals depended to Tehran University of medical Sciences in 2003(TUMS grant)
3. Vaisi Raygani A, Kharrazi H, HajiMoradi A, Nomanpour B, Sabokrohe A, Bahramand F.Determination of APOE genotypes as a risk factor for Coronary Artery Disease (CAD) suffering in Kermanshah population.2003 (KUMS grant).
4. Vaisi Raygani A, Kharrazi H, HajiMoradi A, Nomanpour B, Sabokrohe A, Bahramand F.Determination of APOE genotypes in kermanshah population ,Iran.2004 (KUMS grant).
5. Vaisi Raygani A, Kharrazi H, Nasimanesh R, Determination of frequencies of Apolipoprotein E Polymorphism in Healthy Kurdish Population from Kermanshah, Iran. 2004 (KUMS grant).

- 6 Vaisi Raygani A, Kharrazi H,. Determination of frequencies of butyrylcholinesterase Polymorphism in Healthy Population from Kermanshah, Iran. 1993 (KUMS grant).
7. Vaisi Raygani A, Nomani H, Bahrehmand F, Entezami H, Determination between Butyrylcholinesterase K variant and the APOE-epsilon4 allele work in synergy to increase the risk of coronary artery disease especially in diabetic patients in west of Iran. 2006 (KUMS grant).
8. Vaisi Raygani A, Nomani H, Bahrehmand F, Ghanei H, Determination between angiotensin converting enzyme insertion deletion polymorphism and paraoxonase Gln(192)Arg polymorphism with coronary artery disease and diabetes in west population of Iran 2007 (KUMS grant).
9. Vaisi Raygani A, Kharrazi H, Lackpour B, Sadeghaie M, Akhondi MM, Determination relationship between glutathione peroxidase polymorphism and oxidative stress in infertile men of Iran. 2004 (KUMS and Abne Sina Fertile and Infertile Research Tehran grants).

Results

[The Concomitant Presence of eNOS 894T and ACE D Alleles Are Associated with Diabetic Nephropathy in Kurdish Population from Western Iran.](#)

Rahimi Z, **Vaisi-Raygani** A, Rahimi Z, Parsian A.

Nephrology (Carlton). 2011 Oct 26. doi: 10.1111/j.1440-1797.2011.01533.x. [Epub ahead of print]



2.

[Lack of Association Between MTHFR C677T and A1298C Polymorphisms and Risk of Childhood Acute Lymphoblastic Leukemia in the Kurdish Population from Western Iran.](#)

Azhar MR, Rahimi Z, **Vaisi-Raygani** A, Akramipour R, Madani H, Rahimi Z, Parsian A.

Genet Test Mol Biomarkers. 2011 Oct 21. [Epub ahead of print]



3.

[Adenosine deaminase activity in fertile and infertile men.](#)

Rostampour F, Biglari M, **Vaisi-Raygani** A, Salimi S, Tavilani H.

Andrologia. 2011 Sep 15. doi: 10.1111/j.1439-0272.2011.01231.x. [Epub ahead of print]

□ 4.

[Genetic variation of hormone sensitive lipase and male infertility.](#)

Vatannejad A, Khodadadi I, Amiri I, **Vaisi-Raygani A**, Ghorbani M, Tavilani H.

Syst Biol Reprod Med. 2011 Sep 15. [Epub ahead of print]

PMID:

21919688

[PubMed - as supplied by publisher]

[Related citations](#)

□ 5.

[Association Between Cholesteryl Ester Transfer Protein TaqIB Variants and Risk of Coronary Artery Disease and Diabetes Mellitus in the Population of Western Iran.](#)

Rahimi Z, Nourozi-Rad R, **Vaisi-Raygani A**, Saidi MR, Rahimi Z, Ahmadi R, Yarani R, Hamzehee K, Parsian A.

Genet Test Mol Biomarkers. 2011 Jun 20. [Epub ahead of print]

PMID:

21689002

[PubMed - as supplied by publisher]

[Related citations](#)

□ 6.

[Synergism between paraoxonase Arg 192 and the angiotensin converting enzyme D allele is associated with severity of coronary artery disease.](#)

Vaisi-Raygani A, Rahimi Z, Tavilani H, **Vaisi-Raygani H**, Kiani A, Aminian M, Shakiba E, Shakiba Y, Pourmotabbed T.

Mol Biol Rep. 2011 Jun 17. [Epub ahead of print]

Referees:

The following persons have written letters of recommendation for me:

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Science Center, USA E-mail: tpourmotabbe@utmem.edu

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