

Academic C.V.

**Dr. Asaad Azarnezhad**

**Associate Professor of Medical Genetics**

**Kurdistan University of Medical Sciences**

**Sanandaj IRAN**

**Updated September 2019**



Kurdistan University of Medical  
Sciences

## **Personal Details:**

Name: Asaad Azarnezhad

D.O.B: 23 august 1987 (1 Shahrivar 1366)

Email: [Azarnezhad@gmail.com](mailto:Azarnezhad@gmail.com)

Address: Department of Medical Genetics and Molecular Medicine, Faculty of Medicine, Kurdistan University of Medical Sciences, Pasdaran street, Sanadaj, Iran

## **Academic Qualifications:**

2018 Ph.D:

Medical Genetics,

School of Medicine, Tehran University of Medical Sciences, Tehran, Iran

2013 Master of Science (Msc):

Medical biotechnology,

School of allied medicine, Tehran University of Medical Sciences, Tehran, Iran

2006 Bachelor of Science:

Cellular and Molecular Biology

School of science and biotechnology, Shahid Beheshti University, Tehran, Iran

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## **Positions and work experiences:**

- Faculty Member, Kurdistan University of Medical Science, Sanandaj, Iran
- Member of Research Council of Liver and Digestive Research Center, Research Institute for Health Development, Kurdistan University of Medical Science, Sanandaj, Iran
- Head of Student Research Committee of Faculty of Medicine, Kurdistan University of Medical Science, Sanandaj, Iran

## **PhD Thesis:**

Study of gene amplification and copy number variation profile of HER2, FGFR1, MYC, TOP2A, Cyclin D1, ESR1 genes involved in an Iranian population with primary, early onset ductal breast cancer by real time PCR (qPCR) and Fluorescence in situ hybridization (FISH),  
School of Medicine, Tehran University of Medical Sciences, Tehran, Iran

## **Selected Published Articles:**

1. Osteoblast–seeded bioglass/gelatin nanocomposite: a promising bone substitute in critical-size calvarial defect repair in rat  
Behrooz Johari, Mehdi Kadivar, Shirin Lak, Mazaher Gholipourmalekabadi, Aleksandra M Urbanska, Masoud Mozafari, Maryam Ahmadzadehzarajabad, Asaad Azarnezhad, Samane Afshari, Jamil Zargan, Saeid Kargozar  
The International journal of artificial organs 39 (10), 524-533
2. Predisposing role of vitamin D receptor (VDR) polymorphisms in the development of multiple sclerosis: A case-control study  
R Abdollahzadeh, MS Fard, F Rahmani, K Moloudi, A Azarnezhad  
Journal of the neurological sciences 367, 148-151



3. Pathotypic and phylogenetic study of diarrheagenic Escherichia coli and uropathogenic E. coli using multiplex polymerase chain reaction

H Salmani, A Azarnezhad, MR Fayazi, A Hosseini  
Jundishapur journal of microbiology 9 (2)

4. Mutation characterization and heterodimer analysis of patients with leukocyte adhesion deficiency: including one novel mutation

Teimourian S, De Boer M, Roos D, Isaian A, Moghanloo E, Lashkary S, Hassani B, Mollanoori H, Babaei V, Azarnezhad A  
Immunology Letters 187, 7-13

5. Association of transcription factor 4 (TCF4) gene mRNA level with schizophrenia, its psychopathology, intelligence and cognitive impairments

F Alizadeh, J Tavakkoly-Bazzaz, A Bozorgmehr, A Azarnezhad, M Tabrizi, ...  
Journal of neurogenetics 31 (4), 344-351

6. Synergistic Effects of Arsenic Trioxide and Radiation: Triggering of Intrinsic Pathway of Apoptosis

Kave Moloudi, Ali Neshasteriz, Arshad Hosseini, Nazila Eyvazzadeh, Mehdi Shomali, Samira Eynali, Elahe Mirzaei, Asaad Azarnezhad  
Iranian Biomedical Journal 21 (5), 330-337

7. Genetic variants of cytochrome b-245, alpha polypeptide gene and premature acute myocardial infarction risk in an Iranian population

Fatemeh Amin, Mohammad Mehdi Jahani, Hamid Ghaedi, Behnam Alipoor, Ahmad Fatemi, Michael Tajik, Zohreh Sharifi, Taghi Golmohammadi, Mohammad Askari, Asaad Azarnezhad, Sadegh Alipoor, Aliasghar Valipour, Kazem Mousavizadeh  
Journal of medical biochemistry 34 (4), 402-408

8. A Systematic Review of the Genotoxicity and Antigenotoxicity of Biologically Synthesized Metallic Nanomaterials: Are Green Nanoparticles Safe Enough for Clinical Marketing?

H Barabadi, M Najafi, H Samadian, A Azarnezhad, H Vahidi, MA Mahjoub, ...  
Medicina 55 (8), 439

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Sciences

9. Secretome of Aggregated Embryonic Stem Cell-Derived Mesenchymal Stem Cell Modulates the Release of Inflammatory Factors in Lipopolysaccharide-Induced Peripheral Blood ...

Nastaran Mohammadi Ghahhari, Faezeh Maghsood, Saeed Jahandideh, Majid Lotfinia, Shirin Lak, Behrooz Johari, Asaad Azarnezhad, Mehdi Kadivar  
Iranian biomedical journal 22 (4), 237

10. Association of VDR gene polymorphisms with risk of relapsing-remitting multiple sclerosis in an Iranian Kurdish population

Rasoul Abdollahzadeh, Parisa Moradi Pordanjani, Farideh Rahmani, Fatemeh Mashayekhi, Asaad Azarnezhad, Yaser Mansoori  
International Journal of Neuroscience 128 (6), 505-511

11. Cloning and expression of soluble recombinant HIV-1 CRF35 protease-HP thioredoxin fusion protein

A Azarnezhad, Z Sharifi, R Seyedabadi, A Hosseini, B Johari, MS Fard  
Avicenna journal of medical biotechnology 8 (4), 175

12. The role of nitric oxide signaling in renoprotective effects of hydrogen sulfide against chronic kidney disease in rats: Involvement of oxidative stress, autophagy and apoptosis

MK Shirazi, A Azarnezhad, MF Abazari, M Poorebrahim, P Ghoraeian, ...  
Journal of cellular physiology 234 (7), 11411-11423

13. Detection of CCND1, C-MYC, and FGFR1 amplification using modified SYBR Green qPCR and FISH in breast cancer

A Azarnezhad, M Tabrizi, F JAVAN, P Mehdipour  
Turkish journal of medical sciences 48 (4), 759-767

14. Five-hit hypothesis in ATM gene: An individualized model in a breast cancer patient.

P Mehdipour, A Azarnezhad  
Frontiers in bioscience (Elite edition) 10, 375-383

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15. Redox interactions and genotoxicity of metal-based nanoparticles: A comprehensive review

K Mortezaee, M Najafi, H Samadian, H Barabadi, A Azarnezhad, ...  
Chemico-biological interactions, 108814

16. A simple and low cost tetra-primer ARMS-PCR method for detection triazole-resistant *Aspergillus fumigatus*

S Mahmoudi, H Badali, S Rezaie, A Azarnezhad, A Barac, M Kord, ...  
Molecular Biology Reports, 1-7

17. Association of SHMT1, MAZ, ERG, and L3MBTL3 Gene Polymorphisms with Susceptibility to Multiple Sclerosis

Seyede Zahra Nazari Mehrabani, Mohammad Hossein Shushizadeh, Mohammad Foad Abazari, Maryam Nouri Aleagha, Abbas Ardalani, Rasoul Abdollahzadeh, Asaad Azarnezhad  
Biochemical genetics 57 (3), 355-370

18. TCF4 and GRM8 gene polymorphisms and risk of schizophrenia in an Iranian population: a case-control study

J Tavakkoly-Bazzaz, A Azarnezhad, N Mousavi, P Salehipour, ...  
Molecular biology reports 45 (6), 2403-2409

19. An Effective Concentration of 5-Aza-CdR to Induce Cell Death and Apoptosis in Human Pancreatic Cancer Cell Line through Reactivating RASSF1A and Up-Regulation of Bax Genes.

MN Dastjerdi, A Azarnezhad, B Hashemibeni, M Salehi, M Kazemi, ...  
Iranian Journal of Medical Sciences 43 (5), 533-540

20. ESR1 gene amplification in an Iranian population with early onset invasive ductal breast carcinoma

A Azarnezhad, M Tabrizi, M Atri, P Mehdipour  
Breast Cancer Management 7 (2), BMT10

21. PTEN and p53 gene expressions in breast cancer specimens and their clinicopathological significance

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H Salmani, A Hosseini, A Azarnezhad, H Ahmad  
Middle East Journal of Cancer 9 (2), 105-111

22. Cancer Genetics at a Glance: The Comprehensive Insights  
Azarnezhad Asaad  
Cancer Genetics and Psychotherapy, 79-389

23. Distribution and Comparison Of Antibiotic Resistance Pathogenicity Islands  
Among Upec And Dec  
HS Arshad Hosseini, Asaad Azarnezhad, Mohammad Reza Fayazi  
International Journal of Management and Applied Science (IJMAS) 3 (4), 17-21

24. DEVELOPMENT OF HIV-1 RECOMBINANT PROTEASE (RPR)  
EXPRESSION, SOLUBILITY AND PURIFICATION PROBLEMS BY  
TOPO-CLONING IN E. COLI BL21  
A AZARNEZHAD, A HOSSEINI, Z SHARIFI  
NEW CELLULAR & MOLECULAR BIOTECHNOLOGY JOURNAL 6 (21), 21-27

25. Association of Apolipoprotein E Alleles with Susceptibility to Age-  
Related Macular Degeneration in Iranian Patients  
M Askari, AR Nikpoor, H Aryan, H Ghaedi, J Akhtari, A Azarnejad, ...  
Research in Molecular Medicine 3 (2), 22-27

### **Journal Editorial and Reviewers membership:**

- Reviewers member, Iranian Journal of Medical Science (2015-present), Shiraz, Iran
- Reviewers member, International Journal of Molecular and Cellular Medicine (IJMCM) (2016-present), Babol, Iran
- Reviewers member, Journal of the neurological sciences (2016-present), Europe

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## **Workshop prepared and presented for faculty development**

- + Primer Design,
- + PCR,
- + Real-Time PCR,
- + Cell Culture,
- + Bioinformatics

### **Research Interests:**

- Biotechnology,
- Cancer genetic,
- Functional studies,
- Drug innovation, and
- Gene Association studies

### **Professional Membership:**

- Member of Research Council of Liver and digestive Research Center, Research Institute for Health Development, Kurdistan University of Medical Science, Sanandaj, Iran (2019-Present)
- Member of Iranian Association of Medical Genetics (2014-present)

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## **Key Skills:**

- PCR
- qPCR
- FISH
- Cloning
- Scientific Paper writing
- SPSS & Excell
- Gene network analysis
- Cell culture
- RNA and DNA extraction
- Advanced PCR
- Primer design
- Western blot
- Affinity chromatography
- Bioinformatics and protein modeling

## **Teaching:**

- Medical Genetics
- Molecular Genetics
- Molecular Biology
- Genetic Engineering
- Gene Therapy
- Bioinformatics

## **Interests:**

Football, Swimming, Iranian traditional music

## **Language:**

Fluent in Farsi and Native in Kurdish(Sorani), Good in English