

## Curriculum Vitae

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### Aliieh Gholaminejad, BS, MS, PhD

#### Personal Data

Birth Date: January 18, 1982

Nationality: Iranian

Marital Status: Married

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#### RESEARCH INTERESTS

Systems biology, Omics data analysis, meta-analysis and biomarker discovery, drug target discovery, Nanobiotechnology and biosensors, Medicinal plants.

**Related Courses:** Bioinformatics, Molecular biology, Biochemistry, Nanobiotechnology, Genetic engineering, Chronic kidney disease pathophysiology.

#### EDUCATION/OCCUPATIONS

**2019-present: Research Assistant Professor in Regenerative Medicine Research Center, Isfahan University of Medical Sciences, Isfahan, Iran.**

**2013-2018: Ph.D. in medical biotechnology, Tarbiat Modares university, Tehran, Iran.**

GPA:4 (course grade:18.95, Thesis grade: 20)

Advisor: Dr. Hossein Abdul Tehrani

Thesis Title: *The study of changing in expression of relative microRNAs to chronic kidney disease with use of real time PCR method and comparison with colorimetric method of gold nanoparticles*

**2005-2008: M.S. in Plant Biology, Isfahan University, Isfahan, Iran.**

GPA:4

Thesis Title: A Study of the Effect of Salinity Stress (NaCl) on Vegetative Growth and Proline Content in *Curcuma longa* in Controlled Condition.

Advisor: Dr. Akbar Mostajeran

**2001-2004: B.S. in Biology, Esfahan University, Isfahan, Iran**

GPA:4

## **PUBLICATIONS**

### **A- Published Papers**

#### **RMRC:**

1. **Gholaminejad A**, Zare N, Dana N, Shafie D, Mani A Haghjooy Javanmard SH. A meta-analysis of microRNA expression profiling studies in heart failure. *Heart Failure Reviews*. 2020 (doi:10.1007/s10741-020-10071-9). **Q1, IF:3.5**
2. Roointan A, Gheisari Y, Hudkins KL, **Gholaminejad A\***. Non-invasive metabolic biomarkers for early diagnosis of diabetic nephropathy: Meta-analysis of profiling metabolomics studies. *Nutrition, Metabolism and Cardiovascular Diseases*. 2021 May 4. **Q1, IF:3.9**
3. **Gholaminejad A**, Fathalipour M, Roointan A. Comprehensive analysis of diabetic nephropathy expression profile based on weighted gene co-expression network analysis algorithm. *BMC nephrology*. 2021 Dec;22(1):1-3. **Q2, IF:2.2**
4. Gholaminejad A, Gheisari Y, Jalali S, Roointan A. Comprehensive analysis of IgA nephropathy expression profiles: identification of potential biomarkers and therapeutic agents. *BMC nephrology*. 2021 Dec;22(1):1-0. **Q2, IF:2.2**

#### **Ph. D. (University of Tarbiat Modares):**

1. **Gholaminejad A**, Abdul Tehrani H, Gholami Fesharaki M. Identification of candidate microRNA biomarkers in renal fibrosis: a meta-analysis of profiling studies. *Biomarkers*. 2018:1-33. **Q2, IF:2**
2. **Gholaminejad A**, Tehrani HA, Fesharaki MG. Identification of candidate microRNA biomarkers in diabetic nephropathy: a meta-analysis of profiling studies. *Journal of nephrology*. 2018:1-19. **Q1, IF:3.5**
3. Shoaie N, Daneshpour M, Azimzadeh M, Mahshid S, Khoshfetrat SM, Jahanpeyma F, **Gholaminejad A**, Omidfar K, Foruzandeh M. Electrochemical sensors and biosensors based on the use of polyaniline and its nanocomposites: A review on recent advances. *Microchimica Acta*. 2019 Jul;186(7):1-29. **Q1, IF:6.2**
- 4.

#### **MS (University of Isfahan):**

1. 1-A. Mostajeran, **A. Gholaminejad**, and G. Asghari, 2014, Salinity alters curcumin, essential oil and chlorophyll of turmeric (*Curcuma longa* L.) .*Res Pharm Sci.* ; 9(1): 49–57.

- 2-A. Mostajeran, A. Gholaminejad, 2014, Effect of salinity on sodium & potassium uptake and proline, carbohydrates contents of Turmeric plant parts, *J. Curr. Chem. Pharm. Sc.:* 4(1), 10-21.

#### **B- Submitted Papers (under review)**

1. Gholaminejad A, Gheisari Y, Roointan A. Comprehensive analysis of IgA nephropathy expression profile based on weighted gene co-expression network analysis algorithm. *BMC nephrology*.
2. The applications of carbon-based nanoparticles in biomedicine industry, and environment: A comprehensive overview Authors: Maryam Farmand, Fatemeh Jahanpeyma, Alieh Gholaminejad, Mostafa Azimzadeh \*, Nahid Shoaie \*

#### **C- Presentations:**

- 1- Gholaminejad A, Abdul Tehrani H, Gholami Fesharaki M, Determination of candidate miRNA biomarkers in chronic kidney disease based on meta-analysis and bioinformatics methods and validating them with real-time PCR. *The 12th International & 17th National Congress on Quality Improvement in Clinical Laboratories*. 2019, Tehran, Iran (Poster).
- 2- Gholaminejad A, Abdul Tehrani H, Identification of candidate microRNA biomarkers in lupus nephritis: a meta-analysis of profiling studies, *3<sup>rd</sup> International and 11<sup>th</sup> National Biotechnology Congress of Islamic Republic of Iran*, 2019, Tehran, Iran (Poster).
- 3- Gholaminejad A, Abdul Tehrani H, Design of a Nanobiosensor using gold nanoparticles and HCR amplification for Detection of microRNA Involved in CKD, *3<sup>rd</sup> International and 11<sup>th</sup> National Biotechnology Congress of Islamic Republic of Iran*, 2019, Tehran, Iran (Poster).
- 4- Gholaminejad A, Mostajeran A, The 15<sup>th</sup> Iranian & 3<sup>rd</sup> International Conference of Biology, Terhran, Iran, 2008 (Lecture).
- 5- Gholaminejad A, Mostajeran A, The 3<sup>rd</sup> Congress of Medicinal Plants, Tehran, Iran, 2008 (Lecture).
- 6- Gholaminejad A, Mostajeran A, The 3<sup>rd</sup> Congress of Medicinal Plants, Tehran, Iran, 2008 (Poster).

#### **D- Patents**

- 1- **U.S. Provisional Patent Application Serial No. 63/117,469, filed** on November 24, 2020, and entitled "MICRORNA BIOMARKER PANELS," (Abdul Tehrani H, Gholaminejad A) (DIAGNOSIS OF CHRONIC KIDNEY DISEASE (CKD) AND ITS SUBGROUPS)
- 2- **National Patent, Registration number: 104320, (NANOBIOSENSOR FOR FAST DETECTION OF NUCLEIC ACIDS AND DETECTION METHOD THEREOF)** (Gholaminejad A, Abdul Tehrani H,)

- 3- Under review for national patent: (miRNA biomarker panel for diagnosis of chronic kidney disease (CKD) and its subgroups measured in urine sample via Real-time PCR technique) (Abdul Tehrani H, **Gholaminejad A**)

## **RESEARCH EXPERIENCE**

### **RMRC, 2019-present**

- System biology methods and analysis including transcriptomics and metabolomics in chronic kidney disease.
- Biobanking methods in CKD
- Clinical trials of amino acids in CKD

### **University of Tarbiat modares, 2013-2018**

- Bioinformatics methods in analysis of miRNA profiling dataset
- Molecular techniques: RNA extraction, cDNA synthesis, real time PCR on miRNAs
- Working on colorimetric biosensor

### **University of Isfahan, 2005-2008**

- Conducted experiments on tissue culture
- Extracting essence of medical plants in Medicine Faculty, Isfahan University.
- Gas Chromatography

## **TEACHING EXPERIENCE**

### **Islamic Azad University of *Falavarjan* 2008-2013**

## **WORKSHOPS**

- Construction of co-regulatory gene interaction network, research and development center for biotechnology, *Tarbiat modares university*, 2017.
- Designing of primer and probe for MicroRNA & online target prediction software, *Pasteur Institute of Iran*, 2017.
- Real Time PCR, *Ampliqon A/S*, in cooperation with *Vitagene Akam Co.* & *Department of Anatomical Science, Tarbiat Modares university*, 2015.
- Safety and protection in biological labs workshop, *Tarbiat Modares university*, 2015.
- Primer design, *zist fanavari novin institute*, Isfahan, 2013.

- RT-PCR, *zist fanavari novin institute*, Isfahan, 2013.
- Enzyme-linked immuno\_sorbent assay, *zist fanavari novin institute*, Isfahan, 2013.

## **SKILLS**

- **Languages**
  - English: Speaking, Writing, Listening.
- **Computer**
  - SPSS software
  - EndNote x7
  - Microsoft Office (Word, Excel, Power Points)
  - MODELLER (Protein Modelling)
  - AlleleID: Real Time PCR Primer Design Software.
  - MaxQuant proteome software
  - Perseus software
  - Metaboanalyst