

## **Dr. Amirhossein Ahmadi**

Date of birth: 24 March, 1985

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Marital status: Married

### **Academic Details**

Postdoctoral fellowship in CAR-T cell therapy/ Royan Institute

Molecular Genetics/PhD [2016] with GPA of 18.47 of 20 from university of Tarbiat Modares

Molecular Genetics/MSc [2009] with GPA of 18.48 of 20 from university of Tabriz

Molecular Cell Biology/Bsc [2007] with GPA of 17.58 of 20 from university of Isfahan

### **Work Experience**

Research assistant in Agricultural Biotechnology Research Institute of Iran (ABRII) (2010-2011).

Project title: Association mapping for drought tolerance in Barley

### **Skills**

- 1- Cell culture
- 2- Mammalian cell Transfection
- 3- Virus production and viral transduction
- 4- Flowcytometry
- 5- Realtime PCR
- 6- Western blotting
- 7- Gene cloning
- 8- Recombinant protein expression in bacteria

9- SDS-PAGE

10- siRNA and shRNA design for RNAi mediated gene silencing

11- sgRNA design for CRISPR/Cas9 mediated gene knockout

## Articles

- 1- Moradi S, Sharifi-Zarchi A, **Ahmadi A**, Mollamohammadi S, Stubenvoll A, Günther S, Hosseini Salekdeh G, Asgari S, Braun T, Baharvand H. Small RNA Sequencing Reveals Dlk1-Dio3 Locus-Embedded MicroRNAs as Major Drivers of Ground-State Pluripotency. Stem Cell Report. 2017 Nov 7 pii: S2213-6711(17)30464-2.
- 2- Rahimi E, **Ahmadi A**, Boroumand MA, Soltani BM, Behmanesh M. Association of ANRIL expression with Coronary Artery Disease in type 2 diabetic patients. Cell Journal. 2018 Spring 20; 1.
- 3- Pahlavanneshan S, **Ahmadi A**, Boroumand M, Sadeghian S, Behmanesh M. Association of-77T> C and Arg194trp polymorphisms of XRCC1 with risk of coronary artery diseases in Iranian population. Iranian Journal of Basic Medical Sciences. 2016 Feb 1;19(2):194-200.
- 4- **Ahmadi A**, Behmanesh M, Boroumand MA, Tavallaei M. Up-regulation of MSH2, XRCC1 and ATM genes in patients with type 2 diabetes and coronary artery disease. Diabetes research and clinical practice. 2015 Sep 30;109(3):500-6.
- 5- Javidi MA, **Ahmadi AH**, Bakhshinejad B, Nouraei N, Babashah S, Sadeghizadeh M. Cell-free microRNAs as cancer biomarkers: the odyssey of miRNAs through body fluids. Medical Oncology. 2014 Dec 1;31(12):1-1.
- 6- Soleimani F, Behmanesh M, **Ahmadi AH**, Mohamad Soltani B. Reduction of ITPA gene expression in human gastric adeno carcinoma tumors. Modares Journal of Medical Sciences: Pathobiology. 2015 Jun 22;18(2):87-99.
- 7- Moosavi MA, Ghafary SM, Asvadi-Kermani I, Hamzeiy H, Rahmati M, **Ahmadi AH**, Nikanfar A, Sanaat Z, Asadi-Khiavi M. Carbenoxolone induces apoptosis and inhibits survivin and survivin-ΔEx3 genes expression in human leukemia K562 cells. DARU Journal of Pharmaceutical Sciences. 2011;19(6):455.

- 8- Moosavi SM, **Ahmadi AH**. Apoptosis induction and S-phase cell cycle arrest by adenosine 5'-triphosphate through its degradation to adenosine in human myeloid leukemia K562 cell line. Scientific Journal of Kurdistan University of Medical Sciences. 2010 Sep 15;15(2):51-63.
- 9- **Ahmadi AH** , Moosavi MA. The inductive effect of boric acid on growth inhibition and differentiating changes of human chronic myeloid leukemia K562 cell line. Arak University of Medical Sciences Journal .2010; 13 (3) :1-11.
- 10- Hosseinpour Feizi M, Moosavi M , Ahmadi A , Movafeghi A. Effects of Adenosine 5'-Triphosphate on Apoptosis and Gene Expression of Survivin Splice Variants in K562 Cells. JSSU. 2010; 18 (4) :369-379.
- 11- Moosavi M, **Ahmadi A**, Yazdanparast R. Effect of Adenosine 5-Triphosphate on Cell Cycle of Human Acute Myeloid Leukemia KG1 Cells during S Phase. Qom Univ Med Sci J . 2011; 5 (1) :45-52.

#### Conference papers

- 1- Zahra Abedi, Mehrdad Behmanesh, **Amirhossein Ahmadi**. Human umbilical vein endothelial cells response to shRNA-mediated knock down of ITPA gene. The 1st international & 9th National biotechnology congress of Iran. May 24-26, 2015, Tehran, Iran.
- 2- Mehrdad Behmanesh, **Amirhossein Ahmadi** , Esmail Rahimi. Central nervous system complications: the function of long non-coding RNAs. The 12th MS congress of Iran. 2015, Sari, Iran.
- 3- Esmail Rahimi , Mehrdad Behmanesh , **Amirhossein Ahmadi**. Studying the role of the Wnt signaling in Remyelination in Multiple Sclerosis. The 12th MS congress of Iran. 2015, Sari, Iran.
- 4- **Amirhossein Ahmadi**, Mehrdad Behmanesh, Mohammad Ali Broumand, Mahmoud Tavallaei. Studying the expression of ATM gene in PBMCs of patients with type 2 diabetes and CAD. The 1st international congress of genetics. 2013, Tehran, Iran.
- 5- **Amirhossein Ahmadi**, Mohammad Amin Moosavi, Shams-Allah Pezhman, Mohammad Ali Hosseinpour Feizi. Differentiating and growth inhibitory effects of boric acid in

human leukemia K562 cell line. The 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 2009, Tehran, Iran.

- 6- Mohammad Amin Moosavi, **Amirhossein Ahmadi**, Somayeh Saed, Razieh Yazdanparast, Mohammad Ali Hosseinpour Feizi. Adenosine 5-tri-phosphate induces apoptosis and down-regulate stem cell marker nucleostemin in K562 cell line. The 10th Iranian Congress of Biochemistry & 3rd International Congress of Biochemistry and Molecular Biology, 2009, Tehran, Iran.