

# HOSSEIN FALLAHI (PhD, MSc, BSc)

# ASSOCIATE PROFESSOR BIOINFORMATICS & MOLECULAR BIOLOGY

# **PERSONAL INFORMATION**

Surname: Fallahi

First name: Hossein

Marital Status: Married-no kid

Nationality: Iranian

Date of birth: 25.05.1976

Place of Birth: Tehran-Iran

Languages: Native Persian speaker,

Fluent in English,

basic understanding of Arabic

# **EDUCATION**

Degree	Year	Major	University
PhD	Oct 2004- Oct 2008	Mol. Genetics	ANU, Australia
MSc	Sep 1999- July 2002	Cell & Mol. Biology	Razi Uni. Iran
BSc	Sep 1995-July 1999	General Biology	Shiraz Uni. Iran

# **SKILLS**

# Main (Bioinformatics Skills)

Linux and Mac OS	
Python Programming	
R Programming	
Perl programming	
NGS analysis	
Gene regulatory networks analysis	
Machine Learning	

#### **CONTACT INFORMATION**

Work: +98(833)-4274545 Mobile: +98(9127177784)

fallahi.hossein@gmail.com h.fallahi@razi.ac.ir

Department of Biology, Razi University, Kermanshah, Iran

% Google Scholar

& <u>Lab website</u>

% PubMed



#### Minor (Wet lab skills)

## **RESEARCH INTERESTS**

- Cancer epigenetics and gene expression-insight from highthrough put data
- NGS, RNAseq, small RNAseq,
   Microarray and other forms of high through put data analysis
- Bioinformatics, Systems biology and Molecular evolution
- Gene and protein functional network analysis
- Data mining in biological databases
- Cancer and Stem cell biology,
   Regenerative and personalized medicine

#### **HOBBIES**

- Sports (Cycling, Tennis)
- Running and walking in Nature
- Reading about cognitive sciences and philosophy
- Watching Sci. documentaries.

# STUDENTS' SUPERVISION

## ♦ Molecular biology techniques including:

DNA and RNA preps, Blotting (Southern, northern),
DNA sequencing, PCR techniques (primer design,
semi- quantitative PCR, quantitative PCR, RAPD),
Gene cloning techniques (vector design,
manipulation and transformation)

## **♦** Biochemistry techniques including:

Protein extraction and purification, Enzyme assays,

SDS-PAGE and western blotting, Carbohydrate analysis,

Chromatography (ion exchange, gel filtration)

## Microscopy techniques including:

Bright-field and florescence microscopy,

Digital imaging, Fixation, embedding and sectioning,

Immunolocalization and in situ hybridisation,

Histological staining

♦ General and PC2 laboratory maintenance skills

#### **WORK EXPERIENCESE**

 ASSOCIATE PROFESSOR • RAZI UNIVERSITY • AUGUST 2020-ONGOING

Main responsibilities include:

- a) Teaching Computational Biology, Bioinformatics,
   Systems Biology, Advanced molecular biology and
   Genetics
- b) Supervising and advising PhD & MSc students.
- HEAD OF BIOINFORMATICS LAB: (RAZI UNIVERSITY) SEP 2019-ONGOING



#### Master Student

- 1.Farhangyain M. (Razi University)
- 2. Azar Afrouz A. (Razi University)
- 3. Falsafi N. (Razi University)
- 4. Soleimani T. (Razi University)
- 5. Azarian S. (Shahrekord University)
- 6.Ebrahimi Sh. (Shahrekord University)
- 7.Hematyar M. (Shahrekord University)
- 8. Yaqubi M. (NIGEB)
- 9. Mohammadnia AS. (NIGEB)
- 10.Ahmadi L. (Shahrekord University)
- 11.Fadaie A. (Shahrekord University)
- 12. Aminzadeh S. (Razi University)
- 13. Mahmoudi F. (Razi University)
- 14. Amiri M. (Razi University)
- 15. Varzandian M. (Razi University)
- 16.Samadian E. (Razi University)
- 17.Mirzaghai S. (Razi University)
- 18. Aref M. (Razi University)
- 19. Ahmadi M. (Razi University)
- 20. Daneshfar R. (Razi University)
- 21. Fattahi H. (Razi University)
- 22. Pour Nazari M. (Razi University)
- 23. Nazari K. (Razi University)

#### **PhD Students**

- 1. Shaghaghi N. (Razi Uni)
- 2. Merati T (Razi Uni)
- 3. Ghosay A (International Stu. Razi Uni)
- 4. Laftah A (International Stu. Razi Uni)
- 5. Laftah H (International Stu. Razi Uni)
- 6. Moradi B (Razi Uni)

Lab address: https://hossein-fallahi.github.io/Fallahi-Bioinformatics-Lab/

## ASSITANT PROFESSOR • RAZI UNIVERSITY • JUL 2009- AUGUST 2020

Main responsibilities include:

- a) Teaching Computational Biology, Bioinformatics,
   Systems Biology, Advanced molecular biology and
   Genetics
- b) Supervising and advising PhD & MSc students.
- RESEARCH ASSISTANT, COTTON RESEARCH GROUP, CSIRO.
   AUG 2007- MAR 2009.

Analysis of transgenic plants, which were transformed with constructs to modify the level of SUS activity in cotton.

 RESEARCH ASSISTANT, MPP GROUP, RSBS. OCT 2007- MAR 2009.

Isolation and characterisation of Arabidopsis mutants for CO2 compensation point.

 RESEARCH ASSISTANT, MPP GROUP, RSBS AND PI, CSIRO. DEC 2007- MAR 2009.

To investigate the effects of polyploidy on the performances of plants with 4n chromosomal sets in comparison to those with 2n chromosomal set.

TEACHING ASSISTANT IN "BIOCHEMISTRY OF THE CELL"
 COURSE, BIOCHEMISTRY AND MOLECULAR BIOLOGY
 DEPARTMENT (BAMBI), ANU, 2004-08 (6 SEMESTERS)
 supervising undergraduate students during experiments
 and marking reports and exam papers.



- 7. Mousavi S (Shahrekord Uni)
- 8. Alisoltani A (Shahrekord Uni)
- 9. Karimi M (Shahrekord Uni)
- 10. Moradi B (Shahrekord Uni)
- 11. Sohrabi S (Lorestan Uni)
- 12. Motalebi R (Shahrekord Uni)

#### WORKSHOPS AND COURSES THOUGHT

#### Talks and workshops:

- Invited keynote-speaker at the workshop on "RNA-Seq technology and data analysis", 18<sup>th</sup> 19<sup>th</sup>
   September 2013, Shahrekurd University, Shahrekurd, Iran
- Invited keynote-speaker at the workshop on "micro-RNA Biogenesis and Analysis", 2<sup>ed</sup> 5<sup>th</sup> October 2012, Shahrekurd University, Shahrekurd, Iran.
- Organized an Immunoinformatics workshop (instructor) at the "11th International congress of Immunology and Allergy", 26th 29th April 2012. Milad Tower, Tehran, Iran
- Invited keynote-speaker at the workshop on "Molecular, genomics and bioinformatics solution to improve plants under abiotic stresses", 1<sup>st</sup> 4<sup>th</sup> November 2010, Shahrekurd University, Shahrekurd, Iran.
- Organised an Immunoinformatics workshop (instructor) at the "10th International congress of Immunology and Allergy", 10th 12th May 2010. Shahid Beheshti Medical School, Tehran, Iran.

#### Courses:

☐ Graduate courses (PhD and master students): Immunoinformatics, Nanoinformatics,
Bioinformatics, Advanced Molecular Biology, Molecular Evolution, Biotechnology and Scientific
Writings. (Since Sep. 2009)
☐ Undergraduate courses: Bioinformatics, Epigenetics, Systems Biology, Principles of Genetics, Cell and Molecular biology, Introductory Molecular Genetics and Scientific Writings, Topics in Genetics. (Since Sep. 2010)

# **PUBLICATIONS AND PRESENTATIONS**

Note: \*represent Corresponding author & Impact factors as JULY 2025

- 1) Radak M, Ravand FK, Ghamari N, <u>Fallahi H</u>\*. 2025 "Genetic Signatures Upon Transition from Colorectal Polyps to colon Cancer". <u>Current Tissue Microenvironment Reports</u>, 1-15
- Karimi M, Shiran B\*, Rabei B, <u>Fallahi H</u>, Deri BB. 2025" Arabidopsis Cold Stress Tolerance Improvement via AthHOS1-targeting HOS1-amiRNA Approach". <u>Journal of Agricultural</u> Science & Technology 27 (2)
- 3) Aref M, Sisakhtnezhad S\*, <u>Fallahi H</u>. 2024 "Investigating the effect of Quercetin in the presence of CoCl<sub>2</sub> as an inducing hypoxia agent on the biological characteristics of human telomerase reverse transcription". Ecotoxicology and Environmental Safety 288, 117389
- 4) Radak M, <u>Fallahi H\*.</u> 2024 "Cell–cell communication in stem cells and cancer: Alone but in touch". <u>Fundamental & Clinical Pharmacology</u> 38 (3), 479-488



- 5) Radak M, <u>Fallahi H\*.</u> 2024 "Unraveling molecular similarities between colorectal polyps and colorectal cancer: a systems biology approach". <u>Intestinal research</u> 22 (2), 199-207
- 6) Radak M, <u>Fallahi H\*.</u> 2023 "The Epigenetic Regulation of Quiescent in Stem Cells"- <u>Global Medical Genetics</u> (IF=1.9)
- 7) Radak M, Ghamari N, <u>Fallahi H\*</u>. 2023 "Identification of common factors among Fibrosarcoma, Rhabdomyosarcoma, and Osteosarcoma by network analysis"- <u>BioSystems</u> (IF=1.7)
- 8) <u>Fallahi H\*</u>, Radak M, Yadegari ZS.2023 "Uncovering systems-level molecular similarities between Alzheimer's and Parkinson's diseases"- <u>Neuroscience and Behavioral Physiology</u> (IF=ND)
- 9) Radak M, Yabr-Lafta H, <u>Fallahi H\*</u>. 2023 "Machine learning and deep learning techniques for breast cancer diagnosis and classification: a comprehensive review of medical imaging studies"<u>Journal of Cancer Research and Clinical Oncology (IF=3.7)</u>
- 10) Radak M, Ghamari N, <u>Fallahi H\*</u>. 2023 "Common factors among three types of cells aged in mice"-Biogerontology (IF=4.3)
- 11) Radak M, <u>Fallahi H\*</u>. 2023 "Zbp1 gene: a modulator of multiple aging hallmarks as potential therapeutic target for age-related diseases"-<u>Biogerontology</u> (IF=4.3)
- 12) Godini R, <u>Fallahi H</u>, Pocock R\*. **2022** "The regulatory landscape of neurite development in *Caenorhabditis elegans*"- <u>Frontiers in Molecular Neuroscience (IF=5.4)</u>
- 13) Godini R, <u>Fallahi H\*.</u> 2021. "Dynamics of transcription regulatory network during mice-derived retina organoid development"- <u>Gene</u> (IF= 2.8)
- 14) Karami K, Akbari M, Moradi MT, Soliemani B\*, <u>Fallahi H\*</u>. 2021. "Survival prognostic factors in patients with acute myeloid leukemia using machine learning techniques"- <u>PLOS ONE</u> (IF=2.66)
- 15) Sohrabi SS, Ismaili A\*, Nazarian Firouzabadi F, <u>Fallahi H.</u> 2021 "Identification of key genes and molecular mechanisms associated with temperature stress in lentil"-<u>Gene</u> (IF=6.205)
- 16) Godini R, <u>Fallahi H\*.</u> 2019. "Genome Imprinting and Stem Cells"- <u>Gene Expression Pattern</u> (IF=1.50)



- 17) <u>Fallahi H\*, Godini R.</u> 2019. "System-level Responses to Cisplatin in Pre-Apoptotic Stages of Breast Cancer Cell Line MCF-7"- <u>Computational Biology and Chemistry</u> (IF=1.41)
- 18) Godini R, Pocock R, <u>Fallahi H\*.</u> 2019. "Caenorhabditis elegans hub genes that respond to amyloid beta are homologs of genes involved in human Alzheimer's disease"- <u>PLOS ONE</u> (IF=2.66)
- 19) Godini R, <u>Fallahi H\*.</u> 2019. "A brief overview of the concepts, methods and computational tools used in phylogenetic tree construction and gene prediction"- <u>Meta Gene</u>-
- 20) Karami K, Zerehdaran S\*, Javadmanesh A, Shariati MM, <u>Fallahi H\*.</u> 2019. "Characterization of Bovine (*Bos taurus*) imprinted genes from genomic to amino acid attributes by data mining approaches"- <u>PLOS ONE</u> (IF=2.66)
- 21) Falsafi N, Soleimani T, <u>Fallahi H\*</u>, Azadbakht M. **2019**. "Regulatory Networks Upon Neurogenesis Induction in PC12 cell line by Small Molecules"- <u>Journal of Cellular Physiology</u> (IF=3.94)
- 22) Karami K, Zerehdaran S\*, Javadmanesh A, Shariati MM, <u>Fallahi H\*.</u> 2019. "Classification of maternal and paternal imprinted genes in Bovine (Bos Taurus) using supervised machine learning algorithms"- <u>Journal of Animal Breeding and Genetics</u>, DOI: 10.1111/jbg.12379 (IF=1.94)
- 23) Moradi MT, <u>Fallahi H</u>, Rahimi Z\*. **2018**. "Interaction of LncRNA MEG3 with MiRNAs: A Reciprocal Regulation"- <u>Journal of Cellular Biochemistry</u>, DOI: 10.1002/jcb.27604. (IF=2.96)
- 24) Eshaghi M, Shiran B\*, <u>Fallahi H</u>, Ravash R, Banovic B. **2018.** "Identification of genes involved in steroid alkaloid biosynthesis in Fritillaria imperialis via de novo transcriptomics" <u>Genomics</u>, DOI: 10.1016/j.ygeno.2018.09.008. (IF=2.910)
- 25) Godini R, <u>Fallahi H\*.</u> **2018.** "Dynamics Changes in the Transcription Factors During Early Human Embryonic Development"- <u>Journal of Cellular Physiology</u>, DOI: 10.1002/jcp.27386. (IF= 3.94)
- 26) Godini R, <u>Fallahi H\*</u>, Ebrahimie E. 2018. "Network Analysis of Inflammatory Responses to Septic Reaction by Neutrophils and Peripheral Blood Mononuclear Cells"- <u>PLOS ONE</u>, DOI: 10.1371/journal.pone.0201674. (IF=2.66)
- 27) Godini R, <u>Fallahi H\*,</u> Ebrahimie E. **2018.** "A Comparative System-Level Analysis of the Neurodegenerative Diseases" <u>Journal of Cellular Physiology</u>, DOI: 10.1002/jcp.27330. (IF= 3.94)



- 28) Godini R, <u>Fallahi H\*.</u> 2018. "Shortening the list of essential genes in the human genome by network analysis". <u>Meta Gene</u>, DOI:10.1016/j.mgene.2018.05.001
- 29) Godini R, Yabr-Lafta H, <u>Fallahi H\*.</u> 2018. "Epigenetic modifications in the embryonic and induced pluripotent stem cells". <u>Gene Expression Pattern</u>, DOI: 10.1016/j.gep.2018.04.001. (IF= 1.15)
- 30) Alisoltani A, Shiran B, Rahpeyma Sarvestani N, <u>Fallahi H</u>, Feto NA, Ebrahimie E\*. **2017.** "Changes in Microsatellite Motifs in Response to Abiotic Stresses: a Case Study Using Wheat and Rice RNA-sequencing Data". <u>Asian Journal of Scientific Research</u>, DOI: 10.3923/ajsr.2018.12.21. (IF=0.75)
- 31) Soleimani T, Falsafi N, <u>Fallahi H\*.</u> 2017. "Dissection of regulatory elements during direct conversion of somatic cells into neurons". <u>Journal of Cellular Biochemistry</u>, DOI: 10.1002/jcb.25944. (IF= 3.45)
- 32) Esmaeili F, Shiran B\*, <u>Fallahi H</u>, Mirakhorli N, Ebrahimie E, Budak H, Martinez-Gomez P. **2017**. "In silico search and biological validation of microRNAs related to drought response in peach and almond". <u>Functional & Integrative Genomics</u>. 1-13. DOI:10.1007/s10142-016-0488-x. (IF=3.50)
- 33) Karimi M, Ghazanfari F, Fadaei A, Ahmadi L, Shiran B\*, Rabei M, <u>Fallahi H\*.</u> 2016. "The small-RNA profiles of almond (Prunus dulcis Mill.) reproductive tissues in response to cold stress". <u>PLoS ONE</u>. 11(6), e0156519. DOI: 10.1371/journal.pone.0156519. (IF= 3.23)
- 34) Mohammadnia AS, Yaqubi M, Pourasgari, <u>Fallahi H\*</u>, Massumi M. **2016**. "Signalling and Gene Regulatory Networks Governing Definitive Endoderm Derivation from Pluripotent Stem Cells". <u>Journal of Cellular Physiology</u>. DOI: 10.1002/jcp.25308. (IF=3.84)
- 35) Alisoltani A, Azarian S, Ebrahimi Sh, Hematyar M, Shiran B\*, Jahanbazi H, <u>Fallahi H</u>, Mousavi S, Rafiei F. **2016**. "Parallel consideration of SSRs and differentially expressed genes under abiotic stress for targeted development of functional markers in almond and related Prunus species". <u>Scientia Horticulturae</u>. 198,462-472. DOI: 10.1016/j.scienta.2015.10.020. (IF=1.365)
- 36) Alisoltani A, Shiran B\*, <u>Fallahi H</u>, Ebrahimie E. **2015**." Gene regulatory network in almond (Prunus dulcis Mill.) in response to frost stress". <u>Tree Genetics & Genomes</u> 11 (5) 1-15. DOI 10.1007/s11295-015-0929-z. (IF=2.456)



- 37) Ebrahimi R, Mirlohi Sh, Khalaji F, Fakhari Z, Fakhari Z, Shiran B\*, <u>Fallahi H</u>, Rafiei F, Budak H, Ebrahimie E. **2015**. "Differential expression of seven conserved microRNAs in response to abiotic stress and their regulating network in Helianthus annuus". <u>Frontiers in Plant Science</u>, 6 (741), 1-14. DOI: 10.3389/fpls.2015.00741. (IF=3.95)
- 38) Shirani Bidabadi M, Shiran B\*, <u>Fallahi H</u>, Rafiei F, Esmaeili F, Ebrahimie E. **2015.** "Identification of differential expressed transcripts of almond (Prunus dulcis var. Sefied) in response to water-deficit stress by cDNA-AFLP". <u>Journal of forest research</u>. DOI: 10.1007/s10310-015-0494-1. (IF=1.01)
- 39) Esmaeili F, Shiran B\*, Mirakhorli N, <u>Fallahi H</u>. 2015. "Analysis of expression patterns of miR159, miR171 under drought stress in peach, almond and GN". Frontiers in Plant Science. <u>Modern Genetics</u>. (Accepted). (In Persian accompanied by English abstract, IF = not determined)
- 40) Rahmani-Badi A, Sepehr S\*, <u>Fallahi H.</u> 2015. "Dissection of the cis-2-decenoic acid signalling network in Pseudomonas aeruginosa using microarray technique". <u>Frontiers in Microbiology</u>, 6 (383), 1-13 DOI: 10.3389/fmicb.2015.00383. (IF=3.90)
- 41) Yaqubi M, Mohammadnia AS, <u>Fallahi H\*</u>. **2015**. "Predicting Involvement of Polycomb Repressive Complex 2 in Direct Conversion of Mouse Fibroblasts into Induced Neural Stem Cells". <u>Stem Cell Research & Therapy</u>, 6:42, 1-13. DOI: 10.1186/s13287-015-0045-x. (IF= 4.63)
- 42) Alisoltani A, Shiran B\*, Ebrahimie E, <u>Fallahi H</u>, Mousavi S, et al. **2015** "Differential expression of genes related to macromolecule metabolic process under cold stress in almond (Prunus dulcis Mill) using RNA-seq analysis". <u>Modern Genetics</u>. (Accepted). (In Persian accompanied by English abstract, IF = not determined)
- 43) Alisoltani A, <u>Fallahi H\*</u>, Shiran B, Alisoltani A, Ebrahimie E. **2015** "RNA-Seq SSRs and small RNA-Seq SSRs, new approaches in cancer biomarker discovery". <u>Gene.</u> DOI: 10.1016/j.gene.2015. 01.027. (IF=2.2)
- 44) Akrami H\*, Aminzadeh S, <u>Fallahi H.</u> 2014. "Inhibitory effect of ibuprofen on tumour survival and angiogenesis in gastric cancer cell". <u>Tumour Biology</u>. DOI: 10.1007/s13277-014-2952-3. (IF=2.8)
- 45) Mohammadnia AS, Yaqubi M, <u>Fallahi H\*</u>. **2014**. "Transcription factors regulatory network upon early lung immune response to tuberculosis in mouse". <u>Molecular Medicine Reports</u>. DOI:10.3892/mmr.2015.3721. (IF=1.55)

- 46) Mousavi S, Alisoltani A, Shiran B\*, <u>Fallahi H</u>, Ebrahimie E, et al. **2014**. "De Novo Transcriptome Assembly and Comparative Analysis of Differentially Expressed Genes in Prunus dulcis Mill. In response to Freezing Stress". <u>PLoS ONE</u> 9(8): e104541. DOI: 10.1371/journal.pone.0104541. (IF=3.53)
- 47) Rahmani-Badi A, Sepehr S\*, Babaie-Naiej H, Mohammadi P, Soudi MR, <u>Fallahi H.</u> 2014. "A combination of cis-2-Decenoic acid and antibiotics eradicates pre-established catheter-associated biofilms". <u>Journal of Medical Microbiology</u>. DOI: 10.1099/jmm.0.075374-0. (IF=2.4)
- 48) Mohammadnia AS, Yaqubi M, <u>Fallahi H\*</u>. **2014**. "Predicting transcription factors in human alcoholic hepatitis from gene regulatory network". <u>European Review for Medical and Pharmacological Sciences</u>. 19 (12), 2246-2253. (IF=1.21)
- 49) Ebrahimi R, Shiran B\*, Ebrahimie E, <u>Fallahi H.</u> 2014. "The Effect of Heat Stress on Expression Alternation of miR398 on Helianthus annuus L.". <u>Crop Biotech</u>. Autumn and winter, 5: 49-59. (In Persian accompanied by English abstract, IF = not determined)
- 50) Alisoltani A, <u>Fallahi H</u>, Ebrahimi M, Ebrahimi M, Ebrahimie E\*. **2014**. "Prediction of Potential Cancer-Risk Regions Based on Transcriptome Data: Towards a Comprehensive View", <u>PLOS ONE</u>, 9(5): e96320. (IF=3.53)
- 51) Badger M.R\*, <u>Fallahi H</u>, Kaines S, Takahashi T. **2009**. "Chlorophyll fluorescence screening of Arabidopsis thaliana for CO2 sensitive photorespiration and photoinhibition mutants". <u>Functional Plant Biology</u>, 36(11): 867–873. (IF=2.929)
- 52) <u>Fallahi H</u>, Scofield G.N, Badger M.R, Chow W.S, Furbank R.T\*, Ruan Y-L. **2008**. "Localization of sucrose synthase in developing seed and silique of *Arabidopsis thaliana* reveals diverse roles for SUS during development". <u>Journal of Experimental Botany</u>, 59(12): 3283-3295. (IF=5.364)
- 53) Furbank R.T\*, <u>Fallahi H</u>, Badger M.R, Estavillo G.M, Pogson B, Walter A. **2007**. "Arabidopsis thaliana functional genomics". <u>Photosynthesis Research</u>, 91(2-3), 277. (IF=3.243)
- 54) <u>Fallahi H</u>, Motallebi M\*, Zamani M.R\*. **2007**. "Purification and partial characterization of a polygalacturonase from a virulent isolate of *Ascochyta rabiei* (IK06), causal agent of the *Ascochyta* blight in chickpea". <u>Journal of Science and Technology of Agriculture and Natural Resources</u>, 10(4B): 381-392. (In Persian accompanied by English abstract, IF = not determined)

# **POSTER PRESENTATIONS, TALKS AND ABSTRACTS:**

- 1) Yabr Lafta H, <u>Fallahi H</u>, Yari Kh. **2018**. "Assessing genetic mutations in Chronic Myeloid Leukaemia (CML) patients using whole exome sequencing". The 3<sup>rd</sup> International & 15<sup>th</sup> National Genetics Congress. 13<sup>th</sup>–15<sup>th</sup> May, Tehran, Iran.
- 2) Hadi F, Godini R, <u>Fallahi H</u>. **2018**. "Dissection of plasmacytoid dendritic cell's responses to influenza virus-based network analysis". ICIA 2018, The 14<sup>th</sup> International Congress of Immunology and Allergy. 26<sup>th</sup>-28<sup>th</sup> April, Tehran, Iran.
- 3) Hadi F, Godini R, <u>Fallahi H</u>. **2018**. "Analysis of transcription factors involved in responses of plasmacytoid dendritic cells to influenza virus". ICIA 2018, The 14<sup>th</sup> International Congress of Immunology and Allergy. 26<sup>th</sup>-28<sup>th</sup> April, Tehran, Iran.
- 4) Godini R, Hadi F, <u>Fallahi H</u>. 2018. "Detection of blood cells' genes involved in responding sepsis by weighted gene co- expression network analysis". ICIA 2018, The 14<sup>th</sup> International Congress of Immunology and Allergy. 26<sup>th</sup>-28<sup>th</sup> April, Tehran, Iran.
- 5) Godini R, Hadi F, <u>Fallahi H</u>. **2018**. "Dissection of neutrophils responses to sepsis via network analysis: From weighted co-expression networks to protein-protein and gene regulatory networks". ICIA 2018, The 14<sup>th</sup> International Congress of Immunology and Allergy. 26<sup>th</sup>-28<sup>th</sup> April, Tehran, Iran.
- 6) Radak M, Godini R, <u>Fallahi H</u>. 2018. "Mycophenolic acid treatment alters gene regulatory network of gastric cancer cell line AGS". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 7) Radak M, Godini R, <u>Fallahi H</u>. 2018. "Detection of hub genes and protein complexes in gastric cancer cell line AGS exposed to mycophenolic acid by network0based analysis". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 8) Azarafrouz F, <u>Fallahi H</u>, Akrami H. **2018**. "Regulatory Network in MKN045 Cell Line in Response to Ibuprofen". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 9) Azarafrouz F, <u>Fallahi H</u>, Akrami H. **2018**. "Notch pathway Gene Network in Colorectal Cancer Drug Treatment". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 10) Farhangian M, <u>Fallahi H</u>, Akrami H. **2018**. "Identification of Transcription Factors in Gastric Cancer Cell Line Response to Ibuprofen". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 11) Farhangian M, <u>Fallahi H</u>, Akrami H. **2018**. "Differentiation gene expression of Notch signaling pathway response to Ivermectin". The 7<sup>th</sup> Conference on Bioinformatics, 3<sup>th</sup>-5<sup>th</sup> January, Tehran, Iran.
- 12) Godini R, <u>Fallahi H</u>. 2017. "Differentiation gene expression of Notch signaling pathway response to Ivermectin". The 9th International Tehran Breast Cancer Congress (TBCC9), 18<sup>th</sup>-20<sup>th</sup> October, Tehran, Iran.



- 13) Godini R, <u>Fallahi H</u>. 2017. "Prediction of hub transcription factors of breast cancer cells in response to cisplatin treatment". The 9th International Tehran Breast Cancer Congress (TBCC9), 18<sup>th</sup>-20<sup>th</sup> October, Tehran, Iran.
- 14) Azarafrouz F, Farhangian M, <u>Fallahi H</u>. 2017. "Epigenetic Marks Comparison between Blood Cell Derived from iPSCs and ESCs".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August -1<sup>st</sup> September, Tehran, Iran.
- 15) Azarafrouz F, <u>Fallahi H</u>. 2017. "Methylation Variation between Reprogramming of Different Types of Somatic Cells into iPSCs".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August 1<sup>st</sup> September, Tehran, Iran.
- 16) Farhangian M, <u>Fallahi H</u>. 2017. "Differentiation Capacity of iPSCs Derived from Different Somatic Cells in Blood Cells Generation".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August -1<sup>st</sup> September, Tehran, Iran.
- 17) Farhangian M, Azarafrouz F, <u>Fallahi H</u>. **2017**. "The Regulatory Aspects of Transcriptome between Different iPSCs Resulting from Different Somatic Cells".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August -1<sup>st</sup> September, Tehran, Iran.
- 18) Falsafi N, <u>Fallahi H</u>, Azadbakht M. **2017**. "Identification of Regulatory miRNAs Involved in Cell Death during Neuronal Reprogramming".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August -1<sup>st</sup> September, Tehran, Iran.
- 19) Falsafi N, <u>Fallahi H</u>, Azadbakht M. **2017**. "Identification of Transcription Factors Involved in Staurosporine Induced Cell Death in PC12 Cell Line".13<sup>th</sup> Congress on Stem Cell Biology and Technology (Royan), 30<sup>th</sup> August -1<sup>st</sup> September, Tehran, Iran.
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