

## Personal Information

**First Name:** Akram

**Surname:** Jalali

**Date of Birth:** 19<sup>th</sup> July 74

**Gender:** female

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## Position and Affiliation

*Ph.D degree in medical biotechnology*, Department of Biotechnology, School of Medicine, Shahid Beheshti university of Medical Sciences, Tehran, Iran.

*Faculty member:* Department of Molecular medicine and Genetics, School of Medicine, Hamadan University of Medical Sciences, Hamadan, Iran

## Educational Background

- |           |   |
|-----------|---|
| 1994-1998 | <b>BSc, midwifery</b> , Shahrood University of Medical Sciences, Shahrood, Iran   |
| 2005-2008 | <b>MSc, Human Genetics</b> , <i>mutation detection of DOCK4 and RAPI coding regions in sporadic breast cancer</i> , Department of Genetics, University of Social Welfare and Rehabilitation Sciences, Tehran, Iran              |
| 2010-2015 | <b>Ph.D, Medical biotechnology</b> , <i>Production of anti-IL-2 receptor antibody in leishmania tarentolae</i> . Department of Biotechnology, school of medicine. Shahid Beheshti University of Medical Sciences, Tehran , Iran |

## Highlights of Courses Completed

**Statistics Stream:** Elementary Statistics of univariate, Elementary Statistics of multivariate

**biotechnology Stream:** principles of laboratory animal care, research methods, human molecular genetics, advanced molecular biology, bioinformatics, genetic engineering, protein engineering , Ethics in biotechnology, molecular diagnostics in biotechnology, biotechnology applications in the vaccine production, cell culture and stem cell, nanobiotechnology, quality control of the biotechnology products

## professional skills:

Cell culture, Transfection, Gene cloning, Electroporation, Design and production

of recombinant proteins , Protein purification, Antibody production, scFv production, PCR, SSCP, RFLP, BrdU assay, ICC assay, ICH assay, ICE assay, ELISA, Flowcytometry, Bioinformatics (structural bioinformatics, drug design, docking), etc

## **Publications:**

### **papers:**

#### [Long non-coding RNAs in thyroid cancer: implications for pathogenesis, diagnosis, and therapy](#)

MR Mahmoudian-Sani, A Jalali, M Jamshidi, H Moridi, A Alghasi, ...  
Oncology Research and Treatment 42 (3), 136-142

#### [Therapeutic vaccines for colorectal cancer: The progress and future prospect](#)

M Shahnazari, P Samadi, M Pourjafar, A Jalali  
International Immunopharmacology 88, 106944

#### [Aptamer-conjugated nanoliposomes containing COL1A1 siRNA sensitize CRC cells to conventional chemotherapeutic drugs](#)

H Manoochehri, A Jalali, H Tanzadehpanah, A Taherkhani, R Najafi  
Colloids and Surfaces B: Biointerfaces 218, 112714

#### [Identification of key gene targets for sensitizing colorectal cancer to chemoradiation: an integrative network analysis on multiple transcriptomics data](#)

H Manoochehri, A Jalali, H Tanzadehpanah, A Taherkhani, M Saidijam  
Journal of gastrointestinal cancer 53 (3), 649-668

#### [Survivin as a diagnostic and therapeutic marker for thyroid cancer](#)

MR Mahmoudian-Sani, A Alghasi, A Saeedi-Boroujeni, A Jalali, ...  
Pathology-Research and Practice 215 (4), 619-625

#### [An integrative transcriptome analysis reveals potential predictive, prognostic biomarkers and therapeutic targets in colorectal cancer](#)

P Samadi, M Soleimani, F Nouri, F Rahbarizadeh, R Najafi, A Jalali  
BMC cancer 22 (1), 835

#### [A systems biology approach to identify novel biomarkers in progression from Crohn's disease to colorectal cancer](#)

N Shokrollah, P Samadi, A Jalali, R Dalirfardouei, S Afshar, M Pourjafar  
Asian Pacific Journal of Cancer Prevention: APJCP 24 (6), 1993

#### [Immunology and genetic of Leishmania infantum: The role of endonuclease G in the apoptosis](#)

M Azami, VR Adermanabadi, H Khanahmad, MA Mohaghegh, ...  
Journal of Research in Medical Sciences 23 (1), 36

#### [Novel biomarkers for neoplastic progression from ulcerative colitis to colorectal cancer: a systems biology approach](#)

M Shahnazari, S Afshar, MH Emami, R Amini, A Jalali  
Scientific Reports 13 (1), 3413

#### [EpCAM aptamer activated 5-FU-loaded PLGA nanoparticles in CRC treatment; in vitro and in vivo study](#)

B Yavari, SS Athari, Y Omid, A Jalali, R Najafi  
Journal of Drug Targeting 31 (3), 296-309

#### [Nano-scaled emulsion and nanogel containing \*Mentha pulegium\* essential oil: cytotoxicity on human melanoma cells and effects on apoptosis regulator genes](#)

S Azadi, M Osanloo, E Zarenezhad, M Farjam, A Jalali, A Ghanbariasad  
BMC Complementary Medicine and Therapies 23 (1), 6

## Impact of PIN1 inhibition on tumor progression and chemotherapy sensitivity in colorectal cancer

S Gholamzadeh Khoei, M Saidijam, R Amini, A Jalali, R Najafi

Journal of Gastrointestinal Cancer, 1-12

## Polymorphisms in genes involved in breast cancer among Iranian patients

G Farnoosh, A Saeedi-Boroujeni, A Jalali, B Keikhaei, ...

Personalized Medicine 18 (2), 153-169

## Expression, Purification, and Evaluation of Anti-IL-2R $\alpha$ Antibody Secreted by *Leishmania tarentolae*

A Jalali, M Bandehpour, R Chegeni, H Ghanbarian, Y Mardani-Dashti, ...

International Journal of Peptide Research and Therapeutics 27, 301-307

## A pan-cancer analysis indicates long noncoding RNA HAND2-AS1 as a potential prognostic, immunomodulatory and therapeutic biomarker in various cancers including colorectal ...

P Samadi, M Shahnazari, A Shekari, F Maghool, A Jalali

Cancer Cell International 23 (1), 307

## The Combination of Zerumbone with 5-Fluorouracil for Sensitizing Colorectal Cancer-Associated Fibroblasts to Treatment

S Nobari, R Najafi, A Mahdavinezhad, A Jalali, R Amini

Evidence-Based Complementary and Alternative Medicine 2022 (1), 9369328

## Auraptene Promotes THP-1 Polarization to M1 Macrophages and Improves M1 Function

A Jalali, M Haji Molla Hoseini, M Rezaei

Research Journal of Pharmacognosy 9 (1), 63-75

## Cell-based immunotherapy approaches for colorectal cancer: main achievements and challenges

M Shahnazari, P Samadi, M Pourjafar, A Jalali

Future Oncology 17 (24), 3253-3270

## New variations in the promoter regions of human DOCK4 and RAP1A genes, and coding regions of RAP1A in sporadic breast tumors

A Jalali, H Ebrahimi, M Ohadi, M Karimloo, AI Shemirani, B Mohajer, ...

Avicenna Journal of Medical Biotechnology 1 (2), 117

## Evaluation of BMP-2 as a differentiating and radiosensitizing agent for colorectal cancer stem cells

R Mahmoudi, S Afshar, R Amini, A Jalali, M Saidijam, R Najafi

Current Stem Cell Research & Therapy 19 (1), 83-93

## Improving the selective naked-eye detection of COVID-19 mediated by simultaneously using three different target oligonucleotides coated on plasmonic AuNPs/hexagonal Ag@ AuNPs

N Hosseinpour Moghadam, R Najafi, A Ghanbariasad, ...

Journal of Biomolecular Structure and Dynamics 41 (23), 14372-14381

## A Gene expression signature to Predict Chemotherapy Response of colorectal cancer Patients: Systems Biology analysis on Transcriptomics data and experimental Validation

H Manoochehri, H Tanzadehpanah, A Taherkhani, A Jalali

Journal of Applied Biotechnology Reports 9 (2), 657-670

## Targeted Gene-Hormone Therapy of Colorectal Cancer with Guanylin Expressing Nano-system

P Samadi, F Rahbarizadeh, F Nouri, M Soleimani, R Najafi, A Jalali

## Investigating the Relationship Between High Levels of Angiotensin II in Plasma and the Rate of Deterioration in Hypertensive Patients to COVID-19

M Shahnazari, MM Majzoobi, F Keramat, Y Mohammadi, R Najafi, ...

International Journal of Basic Science in Medicine 8 (1), 30-35

## Antibacterial Activity and Biofilm Inhibition of Gold Nanoparticles Synthesized with Ethanolic Extract of *Rosa damascena* and *Juglans regia*

B Ghavabesh, M Taheri, R Dalirfardouei, F Nouri, A Jalali

Journal of Mazandaran University of Medical Sciences 33 (219), 1-15

Computational analysis, design and expression of hybrid antibody in Single Chain Fragment Variable (scFv) form for identifying surface antigen factor H binding protein (fHbp ...

M Khajavi, F Yarian, S Ahangarzadeh, M Bandehpour, M Mohammadpour, ...  
Medical Science Journal of Islamic Azad Univesity-Tehran Medical Branch 33 ...

Effect of transgenic Leishmania major expressing mLLO-Bax-Smac fusion gene in the apoptosis of the infected macrophages

M Aghaei, H Khanahmad, A Jalali, S Aghaei, M Narimani, SM Hosseini, ...  
Iranian Journal of Basic Medical Sciences 24 (12), 1666

Immunology and Genetic of Leishmania infantum: The Role of Endonuclease G in the Apoptosis

GENE THERAPY, ETHICS AND THE FUTURE

A JALALI, M ABBASI  
MEDICAL ETHICS 4 (12), 149-162

## Patents:

عنوان اختراع:

یک روش مبتنی بر چاپ با فشار شدید برای ساخت داربست سلولی از جنس نانوسلولز باکتریایی دارای توپوگرافی مشابه سطح اتصال درم-اپیدرم

## Conference/ Congress/ Seminar Presentations

6th International Iranian Congress of Laboratory and Clinic, december, 2013

12th International Congress of Immunology and Allergy of Iran, April, 2014

The first international congress of cancer genomics. May, 2023

## Award

2008 Introduced as top student in MSc

2015 Introduced as top student in Ph.D degree