

Hossein Javid

Javidh@Varastegan.ac.ir
Labratorylabratory@yahoo.com

D.O.B.: September 11, 1991; Gorgan-Iran



Address: Department of Medical Laboratory Sciences, Varastegan Institute for Medical Sciences, Mashhad, Iran

Email: Javidh@Varastegan.ac.ir

Tel: +98 911 866 7865

ORCID ID

orcid.org/0000-0002-2248-7708

GOOGLE SCHOLAR

https://scholar.google.com/citations?hl=en&user=0n4KR_UAAAAJ&view_op=list_works&sortby=pubdate

Educational Qualifications

Postgraduate

۲۰۲۰

PhD in Clinical Biochemistry

Faculty of Medicine

Mashhad University of Medical Sciences

Mashhad, Iran

Dissertation: “**The role of Substance P/Neurokinin 1 Receptor in the pathogenesis of esophageal squamous cell carcinoma through constitutively active PI3K/Akt/NF-κB signal transduction pathways**”

Supervisor: Professor Seyyed Issac Hashemy

Foundation of Elites and Top Talents

۲۰۲۲

Elites and Top Talent in Clinical Biochemistry

Faculty of Medicine

AJA University of Medical Sciences

Tehran, Iran

Dissertation: **“The Anticancer Role of Cerium Oxide Nanoparticles by Inducing Antioxidant Activity in Esophageal Cancer and Cancer Stem-Like ESCC Spheres”**

Supervisor: Professor Sattar Gorgani-Firuzjaee

Undergraduate

۲۰۱۵	MSc in Clinical Biochemistry Faculty of Medicine Mashhad University of Medical Sciences Mashhad, Iran
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Dissertation: **Tissue Expression of Prohibition-I and It's Relationship With Prognostic Factors in Breast Cancer**

Supervisor: Professor Farnaz Zahedi Avval

۲۰۱۳	BSc in Medical Laboratory Faculty of Medicine Golestan University of Medical Sciences Golestan, Gorgan, Iran
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Diploma

۲۰۰۹	Diploma in Natural Sciences; Experimental Sciences, Golestan, Iran
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Academic Employment

۲۰۲۰ – Present	Vice-Chancellor for Student and cultural Affairs, Varastegan Institute for Medical Sciences Mashhad, Iran
۲۰۲۰ – Present	Assistant Professor of Clinical Biochemistry, Department of Medical Laboratory Sciences, Varastegan Institute for Medical Sciences Mashhad, Iran
۲۰۱۵ – ۲۰۲۰	University Lecturer - Instructor of Clinical Biochemistry, Department of Clinical Biochemistry, Faculty of Medicine, Mashhad University of Medical Sciences Mashhad, Iran
۲۰۱۵-۲۰۲۰	Polyvalent laboratory technical personnel, Soroush Medical laboratory, Mashhad, Iran

Memberships

۲۰۲۰	Scientific Committee of ۴th Information Technology and Health
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	Promotion with Smart Health Focus, Mashhad, Iran
۲۰۲۰ – Present	Vice-Chancellor for Student and cultural Affairs, Varastegan Institute for Medical Sciences Mashhad, Iran
۲۰۱۵ - Present	Surgical Oncology Research Center, Faculty of Medicine Mashhad University of Medical Sciences Mashhad, Iran
۲۰۲۰ - Present	Medical Council, I. R. IRAN
۲۰۲۰ - Present	skill school Varastegan Institute for Medical Sciences Mashhad, Iran
۲۰۲۰ – Present	Board of Reviewers of <i>Frontiers in Health Informatics</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Metabolic Brain Disease</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Frontiers in Neurology</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Cancer Medicine</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Molecular Biology Reports</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Neuropeptides</i>
۲۰۲۲ – Present	Board of Reviewers of <i>Journal of Neurology, Neurological Science and Disorders</i>
۲۰۲۳	Editorial Board of <i>International Journal of Green Nanotechnology</i>
۲۰۲۳	Editorial Board of <i>Journal of Clinical Tumor Science</i>

Scientific Publications

Books in Persian

● مقدمات کشت سلولی (Preparations for cell culture)، با ضمیمه های محلول سازی - حسین جاوید، علیرضا شعرباف مشهد، شقایق یزدانی؛ زیر نظر حسین جاوید - چاپ اول؛ ۱۴۰۰ - شابک: ۹۷۸-۶۰۰-۴۲۲-۶۸۴-۴ - گروه تالیفی دکتر خلیلی

Papers in English

- Mahboubeh Tajaldini, Amirhoushang Poorkhani, Taghi Amiriani, Amirhossein Amiriani, **Hossein Javid**, Parham Aref, Farahnazsadat Ahmadi, Somayeh Sadani, Vahid Khorii
Strategy of targeting the tumor microenvironment via inhibition of fibroblast/fibrosis remodeling new era to cancer chemo-immunotherapy resistance
EUROPEAN JOURNAL OF PHARMACOLOGY. ۲۰۲۳
<https://doi.org/10.1016/j.ejphar.2023.175991>
- Farideh Ghavidel, Razieh Moalef Shahri, **Hossein Javid**, Nastaran Rezagholinejad, Seyed Isaac Hashemy
The Emerging Role of Heat Shock Proteins in Nasopharyngeal Carcinoma: A Review.
CURRENT MEDICINAL CHEMISTRY. ۲۰۲۳
<https://doi.org/10.2174/0929867331666230821110418>
- Nima Ghoreyshi, Atefeh Ghahremanloo, **Hossein Javid**, Masoud Homayouni Tabrizi, Seyed Isaac Hashemy
Effect of folic acid-linked chitosan-coated PLGA-based curcumin nanoparticles on the redox system of glioblastoma cancer cells
PHYTOCHEMICAL ANALYSIS. ۲۰۲۳
<https://doi.org/10.1002/pca.3263>
- Sanaz Akbari, Reza Assaran Darban, **Hossein Javid**, Ali Esparham, Seyed Isaac Hashemy
The anti-tumoral role of Hesperidin and Aprepitant on prostate cancer cells through redox modifications
Naunyn-Schmiedeberg's Archives of Pharmacology. ۲۰۲۳
<https://doi.org/10.1007/s00210-023-02501-0>
- **Hossein Javid**, Fatemeh Attarian, Toktam Saadatmand, Nastaran Rezagholinejad, Ali Mehri, Hamed Amiri, Mehdi Karimi-Shahri
The therapeutic potential of immunotherapy in the treatment of breast cancer: Rational strategies and recent progress
JOURNAL OF CELLULAR BIOCHEMISTRY. ۲۰۲۳
DOI: 10.1002/jcb.30402
- **Hossein Javid**, Alireza Sharbaf Mashhad, Shaghayegh Yazdani, Mahsa Akbari Oryani, Sanaz Akbari, Nastaran Rezagholinejad, Mahboubeh Tajaldini, Mehdi Karimi-Shahri
The role of viruses in cancer development versus cancer therapy: An oncological perspective
Cancer Medicine. ۲۰۲۳
DOI: 10.1002/cam4.5694
- **Hossein Javid**, Mehdi Karimi-Shahri, Malihe Khorramdel, Ayda T Tabrizi, Thozhukat Sathyapalan, Amir R Afshari, Amirhossein Sahebkar
Probiotics as an adjuvant for management of gastrointestinal cancers through their anti-inflammatory effects: A mechanistic review
CURRENT MEDICINAL CHEMISTRY. ۲۰۲۳
<https://doi.org/10.2174/0929867329666230511180745>
- Mehdi Karimi-Shahri, Abbas Alalikhani, Alireza Hashemzadeh, **Hossein Javid**
The applications of epigallocatechin gallate (EGCG)-nanogold conjugate in cancer therapy
Cancer Nanotechnology. ۲۰۲۲

DOI 10.1088/1361-6528/acaca3

● **Hossein Javid**, Seyed Isaac Hashemy, Mohammad Foad Heidari, Ali Esparham, Sattar Gorgani-Firuzjaee

The anticancer role of cerium oxide nanoparticles by inducing antioxidant activity in esophageal cancer and cancer stem-like escc spheres

BIOMED RESEARCH INTERNATIONAL. 2022

<https://doi.org/10.1155/2022/3268197>

● Abbas AlAlikhan, Atefeh Ghahremanloo, **Hossein Javid**, Safieh Ebrahimi, Seyed Isaac Hashemy

The Effect of Blocking Neurokinin-1 Receptor by Aprepitant on the Inflammatory and Apoptosis Pathways in Human Ovarian Cancer Cells

CELL BIOCHEMISTRY AND BIOPHYSICS. 2022

<https://doi.org/10.1007/s12013-022-01100-5>

● Mehdi Sanati, Maryam Moradi Binabaj, Seyed Sajad Ahmadi, Samaneh Aminyavari, **Hossein Javid**, Hamid Mollazadeh, Bahram Bibak, Elmira Mohtashami, Tannaz Jamialahmadi, Amir R Afshari, Amirhossein Sahebkar

Recent advances in glioblastoma multiforme therapy: A focus on autophagy regulation

BIOMEDICINE & PHARMACOTHERAPY. 2022

<https://doi.org/10.1016/j.biopha.2022.113744>

● **Hossein Javid**, Pedram Hashemian, Shaghayegh Yazdani, Alireza Sharbaf Mashhad, Mehdi Karimi-Shahri

The role of heat shock proteins in metastatic colorectal cancer: A review

JOURNAL OF CELLULAR BIOCHEMISTRY. 2022

<https://doi.org/10.1002/jcb.33266>

● Amir R Afshari, Seyed Hadi Mousavi, Golrokh Mousavi, Sanam Daneshpour Moghadam, Abolfazl Maghrouni, **Hossein Javid**, Zahra Tayarani-Najaran, Bahram Bibak, Hamid Mollazadeh, Azar Hosseini

Ferula gummosa gum exerts cytotoxic effects against human malignant glioblastoma multiforme in vitro

Research in Pharmaceutical Sciences. 2022

DOI: 10.4103/1735-0362,350210

● Maryam Momen Razmgah, Atefeh Ghahremanloo, **Hossein Javid**, Abbas AlAlikhan, Amir-R Afshari, Seyed Isaac Hashemy

The effect of substance P and its specific antagonist (aprepitant) on the expression of MMP-2, MMP-9, VEGF, and VEGFR in ovarian cancer cells

Molecular Biology Reports. 2022

● Mehdi Karimi-Shahri, Malihe Khorramdel, Sara Zarei, Fatemeh Attarian, Pedram Hashemian, **Hossein Javid**

Glioblastoma, an opportunity T cell trafficking could bring for the treatment

Molecular Biology Reports. 2022

DOI: 10.1007/s11033-022-07010-1

● A Ghahremanloo, **Hossein Javid**, A AlAlikhan, AR Afshari, SI Hashemy

The effect of substance P and its specific antagonist (aprepitant) on the expression of MMP-2, MMP-9, VEGF, and VEGFR in ovarian cancer cells.

Molecular Biology Reports. 2022

DOI: 10.1007/s11033-022-07771-w

● Bahram Bibak, Farzaneh Shakeri, Zakieh Keshavarzi, Hamid Mollazadeh, **Hossein Javid**, Mohammad Jalili-Nik, Thozhukat Sathyapalan, Amir R Afshari, Amirhossein Sahebkar

Anticancer mechanisms of Berberine: a good choice for glioblastoma multiforme therapy
CURRENT MEDICINAL CHEMISTRY. 2022
DOI: 10.2174/1568026722022102811

● Malihe Golestaneh, Mohsen Firoozrai, **Hossein Javid**, Seyed Isaac Hashemy
The substance P/neurokinin-1 receptor signaling pathway mediates metastasis in human colorectal SW620 cancer cells
Molecular Biology Reports. 2022
DOI: 10.1007/s11033-022-07348-7

● **Hossein Javid**, Atefeh Ghahremanloo, Amir R Afshari, Roham Salek, Seyed Isaac Hashemy
The Emerging Role of Neurokinin-1 Receptor Blockade Using Aprepitant in the Redox System of Esophageal Squamous Cell Carcinoma
INTERNATIONAL JOURNAL OF PEPTIDE RESEARCH AND THERAPEUTICS. 2022
DOI: 10.1007/s10989-022-10399-w

● Soodabeh Rezaei, Reza Assaran Darban, **Hossein Javid**, Seyed Isaac Hashemy
The therapeutic potential of aprepitant in glioblastoma cancer cells through redox modification
BIOMED RESEARCH INTERNATIONAL. 2022
DOI: 10.1100/2022/804.4.3

● Roshanak Ghaffarian Zirak, Hurie Tajik, Jahanbakhsh Asadi, Pedram Hashemian, **Hossein Javid**
The role of micro RNAs in regulating PI3K/AKT signaling pathways in glioblastoma
Iranian Journal of Pathology. 2022
DOI: 10.30699/IJP.2022,039.29,2726

● **Hossein Javid**, Amir R Afshari, Farnaz Zahedi Avval, Jahanbakhsh Asadi, Seyed Isaac Hashemy
Aprepitant promotes caspase-dependent apoptotic cell death and G2/M arrest through PI3K/Akt/NF-κB axis in cancer stem-like esophageal squamous cell carcinoma spheres
BIOMED RESEARCH INTERNATIONAL. 2021
DOI: 10.1100/2021/88.8214

● Negeen Mehrabani, Mohammad Reza Vaezi Kakhki, **Hossein Javid**, Safieh Ebrahimi, Seyed Isaac Hashemy
The SP/NK1R system-mediated ROS generation in GBM cells through inhibiting glutaredoxin protein
Neurology Research International. 2021
DOI: 10.1100/2021/9966...

● Amir R Afshari, Mohammad Jalili-Nik, Farzaneh Abbasinezhad-Moud, **Hossein Javid**, Mohammad Karimi, Hamid Mollazadeh, Tannaz Jamialahmadi, Thozhukat Sathyapalan, Amirhossein Sahebkar
Anti-tumor effects of curcuminoids in glioblastoma multiforme: An updated literature review
CURRENT MEDICINAL CHEMISTRY. 2021
DOI: 10.2174/1568026722021111140212

● Mehdi Karimi-Shahri, **Hossein Javid**, Shaghayegh Yazdani, Seyed Isaac Hashemy
Mesenchymal stem cells in cancer therapy; the art of harnessing a foe to a friend
IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES. 2021
DOI: 10.22038/IJBMS.2021,08227,12934

● Atefeh Ghahremanloo, **Hossein Javid**, Amir R Afshari, Seyed Isaac Hashemy
Investigation of the role of neurokinin-1 receptor inhibition using aprepitant in the apoptotic cell death through PI3K/Akt/NF-κB signal transduction pathways in colon cancer cells
BIOMED RESEARCH INTERNATIONAL. 2021

DOI: 10.1100/2.21/1383878

● Amir R Afshari, Ali Motamed-Sanaye, Hamed Sabri, Arash Soltani, Sepideh Karkon-Shayan, Sarvin Radvar, **Hossein Javid**, Hamid Mollazadeh, Thozhukat Sathyapalan, Amirhossein Sahebkar

Neurokinin-1 receptor (NK-1R) antagonists: potential targets in the treatment of glioblastoma multiforme

CURRENT MEDICINAL CHEMISTRY. 2021

DOI: 10.2174/092986732866210113160800

● Hamed Amiri, Seyed Isaac Hashemy, Zahra Sabouri, **Hossein Javid**, Majid Darroudi

Green synthesized selenium nanoparticles for ovarian cancer cell apoptosis

RESEARCH ON CHEMICAL INTERMEDIATES. 2021

● Faranak Korfi, **Hossein Javid**, Reza Assaran Darban, Seyed Isaac Hashemy

The effect of SP/NK1R on the expression and activity of catalase and superoxide dismutase in glioblastoma cancer cells

Biochemistry Research International. 2021

DOI: 10.1100/2.21/6620708

● Fatemeh Ghahremani, Reihaneh Sabbaghzadeh, Safieh Ebrahimi, **Hossein Javid**, Javad Ghahremani, Seyed Isaac Hashemy

Pathogenic role of the SP/NK1R system in GBM cells through inhibiting the thioredoxin system

IRANIAN JOURNAL OF BASIC MEDICAL SCIENCES. 2021

DOI: 10.22038/ijbms.2021.02902.11940

● Safieh Ebrahimi, **Hossein Javid**, Amin Alaei, Seyed Isaac Hashemy

New insight into the role of substance P/neurokinin-1 receptor system in breast cancer progression and its crosstalk with microRNA

CLINICAL GENETICS. 2020

DOI: 10.1111/cge.13700

● Seyed Isaac Hashemy Pedram Hashemian, **Hossein Javid**, Ayda Tadayyon Tabrizi

The Role of Tachykinins in the Initiation and Progression of Gastrointestinal Cancers: A Review

INTERNATIONAL JOURNAL OF CANCER MANAGEMENT. 2020

DOI: 10.0812/ijcm.100717

● Fariba Mohammadi, **Hossein Javid**, Amir Reza Afshari, Baratali Mashkani, Seyed Isaac Hashemy

Substance P accelerates the progression of human esophageal squamous cell carcinoma via MMP-2, MMP-9, VEGF-A, and VEGFR1 overexpression

Molecular Biology Reports. 2020

DOI: 10.1007/s11033-020-0032-1

● **Hossein Javid**, Jahanbakhsh Asadi, Farnaz Zahedi Avval, Amir R Afshari, Seyed Isaac Hashemy

The role of substance P/neurokinin 1 receptor in the pathogenesis of esophageal squamous cell carcinoma through constitutively active PI3K/Akt/NF-κB signal transduction pathway.

Molecular Biology Reports. 2020

DOI: 10.1007/s11033-020-0033-9

● Erfan Tavana, Hamid Mollazadeh, Elmira Mohtashami, Seyed Mohamad Sadegh Modaresi, Azar Hosseini, Hamed Sabri, Arash Soltani, **Hossein Javid**, Amir R Afshari, Amirhossein Sahebkar

Quercetin: a promising phytochemical for the treatment of glioblastoma multiforme

BIOFACTORS. 2020

DOI: 10.1002/biof.1600

●Fariba Mohammadi, Arash Soltani, Atefeh Ghahremanloo, **Hossein Javid**, Seyed Isaac Hashemy

The thioredoxin system and cancer therapy: a review

CANCER CHEMOTHERAPY AND PHARMACOLOGY. ۲۰۱۹

DOI: ۱۰.۱۰۰۷/s۰۰۲۸۰-۰۱۹-۰۳۹۱۲-۴

●**Hossein Javid**, Fariba Mohammadi, Elnaz Zahiri Seyed, Isaac Hashemy

The emerging role of substance P/neurokinin-1 receptor signaling pathways in growth and development of tumor cells

JOURNAL OF PHYSIOLOGY AND BIOCHEMISTRY. ۲۰۱۹

DOI: ۱۰.۱۰۰۷/s۱۳۱۰۰-۰۱۹-۰۰۶۹۷-۱

●Arash Soltani, Arash Salmaninejad, Mohammad Jalili-Nik, Anvar Soleimani, **Hossein Javid**, Seyed Isaac Hashemy, Amirhossein Sahebkar

δ'-Adenosine monophosphate-activated protein kinase: A potential target for disease prevention by curcumin

JOURNAL OF CELLULAR PHYSIOLOGY. ۲۰۱۸

DOI: ۱۰.۱۰۰۲/jcp.۲۷۱۹۲

●**Hossein Javid**, Arash Soltani, Fariba Mohammadi, Seyed Isaac Hashemy

Emerging roles of microRNAs in regulating the mTOR signaling pathway during tumorigenesis

JOURNAL OF CELLULAR BIOCHEMISTRY. ۲۰۱۹

DOI: ۱۰.۱۰۰۲/jcb.۲۸۴۰۱

●**Hossein Javid**, I Hashemy, S Shahidsales, NM Roshan, T Kianoosh, FZ Avval

Tissue Expression of Prohibition-I and It's Relationship With Prognostic Factors in Breast Cancer Iranian Journal of Pathology. ۲۰۱۸

PMCID: PMC۶۳۳۹۰۰۰

Conferences

● The role of substance P/NK1R in the pathogenesis of colorectal cancer through constitutively active PI3K/Akt/NF-κB signal transduction pathways

Author(s): **Hossein Javid**

Conference Information: ۱۶th National Congress of Biochemistry and ۷th International Congress of Biochemistry and Molecular Biology

Date: **Nov ۹, ۲۰۲۰, Tehran, Iran**

● Tissue Expression of Prohibitin I in breast cancer

Author(s): **Hossein Javid**, Farnaz Zahedi Avval

Conference Information: Molecular and cancer biomarkers

Date: **Sep ۱۰, ۲۰۱۷, Berlin, Germany**

● Investigating the serum level of prohibitin I and its relationship with prognostic factors in breast cancer

Author(s): **Hossein Javid**, Isaac Hashemy, Soudabeh Shahidsales, Nema Mohammadian Roshan, Tayebeh Kianoosh, Farnaz Zahedi Avval

Conference Information: ۱۲th International Breast Cancer Congress

Date: **July ۱۷, ۲۰۱۸, Tehran, Iran**

● Aprepitant Promotes Caspase-dependent Apoptotic cell death and G2/M arrest through PI3K/Akt/NF-κB axis in Cancer Stem-like Esophageal Squamous Cell Carcinoma spheres

Author(s): **Hossein Javid**

Conference Information: ۱۶th National and ۷th International Congress of Biochemistry and Molecular Biology

Date: **Nov ۹, ۲۰۲۰, Tehran, Iran**

● The Role of Tachykinins in Initiation and Progression of Gastrointestinal Cancers

Author(s): **Hossein Javid**

Conference Information: 11th National Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology

Date: **Nov 9, 2020, Tehran, Iran**

● The Therapeutic Potential of MicroRNAs in Regulating the mTOR signaling pathway in Cancer: A Review

Author(s): **Hossein Javid**

Conference Information: 11th National Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology

Date: **Nov 9, 2020, Tehran, Iran**

● The Emerging Role of Substance P/Neurokinin-1 Receptor Signaling Pathways in Growth and Development of Tumor Cells

Author(s): **Hossein Javid**

Conference Information: 11th National Congress of Biochemistry and 4th International Congress of Biochemistry and Molecular Biology

Date: **Nov 9, 2020, Tehran, Iran**

● The Emerging Role of Polymeric Microparticles as an Effective Therapeutic Strategies for Cancer

Author(s): Morteza Hassandokht Mashhadi, Negin Najmi Noghondar, Mahla Hassani, Mobina Tork, Mina Hosseini, **Hossein Javid**

Conference 3rd INTERNATIONAL CONFERENCE ON BIOTECHNOLOGY AND GLOBAL DEVELOPMENT

Date: **Apr 30, 2022, Tehran, Iran**

Supervisor in the following theses

● 2023 - Master thesis – Voroud Alkriy

Synthesis of SLN solid lipid nanoparticles containing naringenin decorated with folate-conjugated chitosan to evaluate its anticancer effects.

Islamic Azad University of Tehran, Tehran- Iran

● 2023 - Master thesis – Janan Hazem Sadegh Al-Adali

Synthesis of lipid nanostructures (NLC) containing gummosin modified with folate-bound chitosan to evaluate its toxicity and anticancer effects.

Islamic Azad University of Tehran, Tehran- Iran

● 2023 - Master thesis – Abdulkarim Saleh Al-Arifi

Synthesis of lipid nanostructures (NLC) containing hesperidin coated with folate bound chitosan to evaluate its toxicity and anticancer effects.

Islamic Azad University of Tehran, Tehran- Iran

● 2023 - Master thesis – Mohammad Jassim Mohammad Al-Jizani

Tymol loading on graphene oxide nanoparticles modified with chitosan conjugated to folic acid to evaluate its anticancer effects.

Islamic Azad University of Tehran, Tehran- Iran

Co-supervisor in the following theses

● 2023 – PhD Thesis – Maliheh Khorramdel

Preparing, characterizing and investigating the effects of solid nanoparticles and nano-lipid carriers containing two drugs, meloxicam and rifampin, on the chromium sensing pathway

of Pseudomonas aeruginosa PAO¹ bacteria.

Islamic Azad University of Amol, Amol- Iran

● ۲۰۲۳ - Master thesis – Razieh Moalef Shahri

Investigating the protective effect of silymarin on brain and liver tissues in ovariectomized adult Wistar rats and its effect on oxidative stress and the expression of inflammatory factors.

● ۲۰۲۲ – Medical doctorate – Maryam Momen Razmgah

Investigating the role of P/NK¹-R substance system and its specific antagonist (aprepitant) on the expression and level of MMP² and MMP⁹ as metastatic factors in ovarian cancer cell line.

Research Interests

- Redox Signaling and Oxidative stress
- Nanotechnology
- Molecular Mechanisms of Cancer
- Tumor Biology
- Target Therapy
- Tachykinin and Neuropeptides
- Immunotherapy

Some of Research projects (Scientific Projects/ Clinical Trials):

Projects in process

● **Investigating the protective effect of lycopene extract on liver and brain tissues in ovariectomized adult Wistar rats and its effect on oxidative stress and expression of inflammatory factors.**

Mashhad university of medical sciences

● **Improvement of ovarian cancer treatment by targeted delivery of curcumin using iron oxide nanoparticles coated with cyclodextrin and folic acid.**

Mashhad university of medical sciences

● **Investigating the protective effect of silymarin on brain and liver tissues in ovariectomized adult Wistar rats and its effect on oxidative stress and the expression of inflammatory factors.**

Mashhad university of medical sciences

● **Synthesis and characterization of iron oxide nanoparticles with porous silica coating for zero-bone loading and investigation of its anticancer properties.**

Mashhad university of medical sciences

● **Investigating the protective effects of synthesized selenium nanoparticles with curcumin coating on arsenic-induced neurotoxicity in PC¹² cells.**

Mashhad university of medical sciences

● **Investigating the protective effect of hesperidin on quinolinic acid-induced toxicity in rat oligodendrocyte cells (OLN-93).**

Mashhad university of medical sciences

● **Investigating the protective effects of ellagic acid on the excitotoxicity caused by quinolinic acid in rat oligodendrocyte cell line OLN-93.**

Mashhad university of medical sciences

● **The effect of SP/NK¹-R system and its antagonist (aprepitant) on inflammation pathways and proliferation of ovarian cancer cells.**

Mashhad university of medical sciences

● **Investigating the role of SP/NK¹-R system and its specific antagonist (aprepitant) on the expression and level of MMP⁹ and MMP¹³ as metastatic factors in ovarian cancer cell line.**

Mashhad university of medical sciences

● **Selenium doping in cerium oxide nanoparticles and investigating their physico-chemical, cytotoxic, antioxidant and inflammatory properties.**

Mashhad university of medical sciences

● **Investigating the antioxidant, cytotoxic and antifungal properties of zinc oxide nanoparticles.**

Mashhad university of medical sciences

● **Investigating the role of substance P in inducing inflammation and proliferation of colon cancer cells.**

Mashhad university of medical sciences

● **Investigating the role of SP/NKR¹ system on cell cycle and cell aging in esophageal cancer line (KYSE-30).**

Mashhad university of medical sciences

● **Investigating the effects of cerium oxide nanoparticles on cytotoxicity, antioxidant and inflammatory properties in esophageal cancer stem-like cells.**

AJA university of medical sciences, Tehran, Iran

● **Synthesis of selenium nanoparticles by green chemistry method and investigation of its anticancer properties.**

Mashhad university of medical sciences

● **Investigating the role of SP/NKR¹ system in the creation and development of esophageal cancer tumor cell and stem cell models, focusing on PI³K/Akt, NFκB, mTOR and Wntβ-catenin pathways.**

Mashhad university of medical sciences

● **Examining the serum level and tissue distribution of Prohibitin I and its relationship with breast cancer prognostic factors.**

Mashhad university of medical sciences

Teaching Contributions

Date	University / Students	Title
● ۲۰۱۵-۲۰۲۰	MUMS, Iran / Faculty of Medicine; Doctorate Students of Pharmacy	Clinical and Lab-oriented Biochemistry
● ۲۰۱۵-۲۰۲۰	MUMS, Iran / Faculty of Medicine; Doctorate Students of Medical	Clinical and Lab-oriented Biochemistry
● ۲۰۱۵-۲۰۲۰	MUMS, Iran / Faculty of Medicine; Doctorate Students of Dentistry	Clinical and Lab-oriented Biochemistry
● ۲۰۱۷-۲۰۱۸	MUMS, Iran / Faculty of Nursing; Bachelor Students of Public health	General Biochemistry Clinical Biochemistry Enzymology Tissue Biochemistry
● Since ۲۰۱۹ (all of teachings are not included)	MUMS, Iran / Faculty of Medicine; MSc Students of Biochemistry	Molecular Signaling Molecular Biochemistry BioSolutions
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Clinical and Lab-oriented Biochemistry
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Clinical and Lab-oriented Hormonology
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	General Biochemistry
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Metabolism Biochemistry
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Molecular Biochemistry
	VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Technical principles of laboratory

Laboratory Sciences; Students of medical laboratory	of equipment
VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Principles of safety in the laboratory
VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	Quality control in the laboratory
VUMS, Iran / Department of Medical Laboratory Sciences; Students of nutrition	Introductory biochemistry
VUMS, Iran / Department of Medical Laboratory Sciences; Students of control in Health	General and Metabolism of Quality Biochemistry
VUMS, Iran / Department of Medical Laboratory Sciences; Students of medical laboratory	The principles of presentation of scientific seminar and expression technique in education

Honors & Awards

۲۰۲۱	Received the best researcher award in Varastegan University of Medical Sciences.
۲۰۲۰ - Present	I became elite and used the facilities of elites and top talents in Iran.
۲۰۲۲ - Present	Received the award with the most disciplined professor of Varastegan University of Medical Sciences.

Skills

۱. *Cell culture and in vitro studies*
۲. *Flow cytometry and analysis of apoptosis and cell cycle*
۳. *Western blotting*
۴. *PCR And Real-time PCR*
۵. *Measurement of reactive oxygen species by ROS technique and Redox System*
۶. *Measurement of cell aging with B-galactosidase staining technique*
۷. *ELISA*
۸. *Enzyme activity measurement techniques (Assay)*
۹. *Wound-healing assay test to evaluate the state of metastasis.*
۱۰. *Working with rats and mice for in vivo studies*
۱۱. *Work with FlowJo, Image J and Prism statistical software*

Languages

Persian	Native
English	Intermediate
Arabic	Intermediate

Turkish

Intermediate

Interests, Hobbies, Family

Working with computer, learning new softwares, and surfing on the web and virtual networks

Married, \ daughter