






## Curriculum Vitae

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### 1. Profiles on scientific networks

Network	Link to profile
	<a href="https://scholar.google.com/citations?user=UCqbsvQAAAAJ&amp;hl=en">https://scholar.google.com/citations?user=UCqbsvQAAAAJ&amp;hl=en</a>
	<a href="https://www.researchgate.net/profile/Davod_Jafari">https://www.researchgate.net/profile/Davod_Jafari</a>
	<a href="https://www.scopus.com/authid/detail.uri?origin=resultslist&amp;authorId=57203955028&amp;zone=">https://www.scopus.com/authid/detail.uri?origin=resultslist&amp;authorId=57203955028&amp;zone=</a>
	<a href="https://orcid.org/0000-0002-2796-9597">https://orcid.org/0000-0002-2796-9597</a>

### 2. Education

Ph.D.
Medical Biotechnology
Iran University of Medical Sciences
Grade point average: 19.40

### 3. Thesis

Ph.D. thesis title
Ongoing project: Fabrication and characterization of a hydrocolloid wound dressing containing human placental ECM: an animal study
Thesis score: 19.91

### 4. Indices

Google scholar h-index: 13	Scopus h-index: 11	i10-index: 13
Total citations: 645	Total citations: 576	Total documents: 26

### 5. Teaching experiences

No	Degree and course	Taught	Place	Duration
1	Tissue engineering, Ph. D	ELISA and Western blotting	Iran University of Medical Sciences	TA
2	Radiobiology, MSc	PCR	Iran University of Medical Sciences	Practical
3	Radiobiology, MSc	Biology	Iran University of Medical Sciences	TA

4	Radiology, BSc	Cellular Biology	Iran University of Medical Sciences	One semester (TA)
5	Medical Biotechnology, MSc	Biochemistry	Iran University of Medical Sciences	One semester (TA)
6	Radiology, MSc	Molecular Biology	Iran University of Medical Sciences	One semester (TA)
7	Biotechnology, MSc	Bioinformatics	Imam Khomeini International University	TA
8	Biotechnology, Ph.D	In silico rec DNA	Imam Khomeini International University	TA
9	Radiobiology, MSc	ELISA	Iran University of Medical Sciences	Practical
10	Biotechnology, Ph.D	qPCR	Iran University of Medical Sciences	Practical

## 6. Research projects

No.	Project title	Role	Place	Year
1	Designing of a recombinant vaccine for Influenza: a bioinformatics study	Admin	Iran University of Medical Sciences	2018
2	Diagnostics value of serum and SCF exosomes for glioblastoma: a systematic review and meta-analysis	Admin	Iran University of Medical Sciences	2018
3	Cloning, expression and characterization of SARS-COV-2 N antigen in E. Coli	St Admin	Iran University of Medical Sciences	Ongoing
4	Designing a molecular qPCR test for SARS-COV-2 viral load determination.	St Admin	Iran University of Medical Sciences	Ongoing
5	Designing a multimerized subunit vaccine against COVID-19: a bioinformatics study	Admin	Iran University of Medical Sciences	Ongoing
6	Exosomal Biomarkers for liver cancer diagnosis; a systematic review approach	Admin	Iran University of Medical Sciences	Ongoing
7	Diagnosis of pancreatic cancer using exosomes: a systematic review approach	Admin	Iran University of Medical Sciences	Ongoing

## 7. Published Papers

Indexing	Year	Role	Title
IF: 13.3	2024	3 <sup>rd</sup> Author	Enhancing Diabetic Wound Healing Through Improved Angiogenesis: The Role of Emulsion-Based Core-Shell Micro/Nanofibrous Scaffold with Sustained CuO Nanoparticle Delivery
IF: 5.1	2023	Correspond	Diagnostic accuracy of serum derived exosomes for hepatocellular carcinoma: a systematic review and meta-analysis
IF: 5.1	2022	First Author	Diagnostic accuracy of cerebrospinal fluid and serum-isolated extracellular vesicles for glioblastoma: a systematic review and meta-analysis
IF:10.7	2023	3 <sup>rd</sup> Author	3D-printed placental-derived bioinks for skin tissue regeneration with improved angiogenesis and wound healing properties
IF: 5.74	2021	2 <sup>nd</sup> Author	Liquid Biopsy-Based Biosensors for MRD Detection and Treatment Monitoring in Non-Small Cell Lung Cancer (NSCLC)
IF: 2.04	2021	First Author	Protective effect of selenium on vincristine-induced peripheral neuropathy in PC12 cell line
IF: 4.39	2022	3 <sup>rd</sup> Author	3D-printed PLA/Gel hybrid in liver tissue engineering: Effects of architecture on biological functions

<b>IF: 5.5</b>	2020	<b>First Author</b>	Designer Exosomes: A New Platform for Biotechnology Therapeutics
<b>IF: 3.6</b>	2022	<b>First Author</b>	Combined Treatment of Dendrosomal-Curcumin and Daunorubicin Synergistically Inhibit Cell Proliferation, Migration and Induce Apoptosis in A549 Lung Cancer Cells
<b>IF: 3.4</b>	2019	<b>First Author</b>	The relationship between molecular content of mesenchymal stem cells derived exosomes and their potentials: Opening the way for exosomes based therapeutics
<b>IF: 8.2</b>	2020	<b>First Author</b>	Improvement, scaling-up, and downstream analysis of exosome production
<b>IF: 3.56</b>	2020	<b>First Author, Correspond</b>	Designing a chimeric subunit vaccine for influenza virus, based on HA2, M2e and CTxB: a bioinformatics study
<b>IF: 1.8</b>	2018	<b>First Author</b>	Constructing and transient expression of a gene cassette containing edible vaccine elements and shigellosis, anthrax and cholera recombinant antigens in tomato.
<b>IF: 3.6</b>	2021	<b>Co-Author</b>	A review of potential suggested drugs for coronavirus disease (COVID-19) treatment
<b>IF: 1.5</b>	2018	<b>Co-Author</b>	Effects of fungal extracts on vinblastine and vincristine production and their biosynthesis pathway genes in <i>Catharanthus roseus</i> .
<b>PubMed</b>	2016	<b>First Author, Correspond</b>	Bioinformatic analysis of different fusions of ipaD, PA20 and CTxB antigens: A preliminary analysis for vaccine design.
<b>DOAJ</b>	2018	<b>First Author</b>	Isolation and bioinformatics study of TbjAMYC transcription factor involved in biosynthesis of Taxol from Iranian yew.
<b>DOAJ</b>	2016	<b>Co-author</b>	Prevalence and Antibiotic Susceptibility Patterns of Urinary Tract Infections in Patients Referred to a Clinical Laboratory in Isfahan, Iran, 2014 - 2015.
<b>DOAJ</b>	2016	<b>Co-author</b>	Anti-Toxoplasma IgM and IgG Seropositivity Among Individuals Referred to a Clinical Laboratory of Isfahan, Central Iran. Int J Infect

**IF: impact factor**

## 7. in process papers

Indexing	Year	Role	Title	Journal	Status
-	-	-	Silk sericin for skin tissue engineering	-	<b>Preparation</b>
-	-	-	3D printed ECM matrices for healing of full thickness wound in mice	-	<b>Preparation</b>
-	-	-	Cloning, expression and development of an ELISA test by SARS-CoV 2 nucleocapsid protein	-	<b>Submitted</b>
-	-	-	Designing a multimerized subunit vaccine for COVID-19	-	<b>Prepared</b>
			Translation prospects of a novel ECM 3D printed scaffold with improved angiogenesis and skin wound healing properties: an in vitro and in vivo study	-	<b>Revision</b>
			Diagnostic accuracy of serum-isolated exosomes for Pancreatic cancer: a systematic review and meta-analysis		<b>Prepared</b>

## 8. Patents

No.	Patent title	Status
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1	Composition and fabrication technique of a hydrocolloid wound dressing				Filed
9. Article reviews					
No.	Manuscript title				Journal
1	Safety features and non-clinical considerations of extracellular vesicles for clinical entry				Biodrugs
10. Commercialization experiences					
No.	Title	Trade Name	Role	Status	Year
1	RED PCR mastermix	Reddi	Admin	On market	2020
2	RNA protector	RNAguard	Admin	On market	2020
3	Plasmid extraction kit	Nopex	Admin	On market	2021
4	Gel extraction kit	Nogex	Admin	On market	2021
5	PCR product purification kit	3PKit	Admin	On market	2021
6	100bp+ DNA ladder	LD100	Admin	On market	2019
7	50bp+ DNA ladder	LD50	Admin	On market	2019
8	Green and blue Loading buffer	Easyload and Easyrun	Admin	On market	2020
9	SYBR green mastermix	RealTiQ	Co-admin	On market	2021
10	SARS-COV-2 N recombinant protein	In progress	Co-admin	Ongoing R&D	2020
11	SARS-COV-2 standard sequence production	In progress	Co-admin	Ongoing R&D	2020
12	Hydrocolloid wound dressing	In progress	Stu-admin	Ongoing R&D	2019
13	cDNA synthesis kit	Notescript	Admin	Ongoing R&D	2022
14	RNA extraction solution	Norex	Co-admin	Ongoing R&D	2022
15	Recombinant RT enzyme production	In progress	Co-admin	Ongoing R&D	2022
16	DNA extraction kit	NodexPlus	Developer	On market	2022
17	gDNA extraction from Blood kit	NodexBlood	Developer	On market	2023
18	RBC lysis Buffer	RBC Lyse	Developer	On market	2023

### 11. Teaching personal courses

No.	Title	Place	Year
1	Molecular Tests	Tehran	2022-9
1	Molecular Tests	Tehran	2022-10
1	Molecular Tests	Tehran	2022-11
1	Molecular Tests	Tehran	2022-12
5	Scientific writing	Tehran	2022-11

### 12. Teaching workshops

No.	Title	Place	Year
1	Introduction to Bioinformatics	Iran University of Medical Sciences	2018
2	Primer designing and analysis	Iran University of Medical Sciences	2018
3	In silico gene cloning and genetic engineering	Tabriz University of Medical Sciences	2019
4	In silico gene cloning and recombinant DNA	Imam Khomeini International University	2019
5	Advanced primer designing for gene expression	Imam Khomeini International University	2019
6	In silico Mutagenesis with oligonucleotides	Imam Khomeini International University	2019
7	In silico genetic engineering	Iran University of Medical Sciences	2019
8	Stem cell extraction from mice	Iran university of Medical sciences	2022
9	Scientific writing	SRTC (Iran university of Medical sciences)	2022
10	PCR and primer designing	SRTC (Iran university of Medical sciences)	2021
11	PCR, qPCR and primer designing	Offline package (20+2hrs)	2020
12	RNA extraction and Standard PCR	Iran university of Medical sciences	2022
13	qPCR	Iran university of Medical sciences	2022

### 13. Workshops

No.	Title	Place	Year
1	Real-time PCR	Shahid Beheshti university	2015
2	EndNote	Iran University of Medical Sciences	2018
3	Primer designing	Iran University of Medical Sciences	2018
4	Bioinformatics	Iran University of Medical Sciences	2018
5	CRSPR	National Institute of Genetic engineering and Biotechnology	2018
6	Personalized medicine	University of social welfare and rehabilitation sciencess	2018
7	Microbiome	Shahid Beheshti university	2018
8	Compilation of the lesson	Iran University of Medical Sciences	2018

	plan		
9	Pharmaceutical Biotechnology startups	Iran University of Medical Sciences	2019
10	Chemical biology	Iran University of Medical Sciences	2019
11	Directed evolution for protein engineering	Iran University of Medical Sciences	2019

#### 14. Congresses

No.	Congress	Presentation
1	16 <sup>th</sup> International Congress of Microbiology	Poster
2	16 <sup>th</sup> International Congress of Microbiology	Poster
3	2 <sup>nd</sup> international personalized medicine of Iran	Poster
4	2 <sup>nd</sup> international personalized medicine of Iran	Poster
5	4 <sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine	Poster
6	4 <sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine	Poster
7	4 <sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine	Poster
8	4 <sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine	Poster
9	4 <sup>th</sup> Iranian Congress on Progress in Tissue Engineering and Regenerative Medicine	Poster
10	3 <sup>rd</sup> international personalized medicine of Iran	Poster
11	3 <sup>rd</sup> international personalized medicine of Iran	Poster

#### 15. Personal skills

No.	Title	Description
1	<b>English language</b>	Upper-advanced level of Speaking, Writing, Listening and Reading
2	<b>Software/Internet</b>	Bioinformatics analysis tools, protein modelling, in silico gene designing, all applicable Microsoft Office, Photoshop, bioinformatics scientific databases, EndNote, SnapGene, Oligo 7, Primer 3 and 3plus, Modeller.
3	<b>Laboratory techniques</b>	Western blotting, Dot Blotting, sandwich Elisa, PCR, Real-time PCR, Overlap-extension PCR, Gene cloning, Gene expression, Recombinant protein expression and purifying, working with laboratory animals, tissue processing and staining, Animal cell culture, Cell differentiation, Cancer cell lines, Cancer dependent miRNA expressions, Cancer molecular diagnosis.
4	<b>Submitted genes in Gene Bank</b>	<i>TbJAMYC (a gene coding a transcription factor)</i>

#### 16. Research interests

- 1- Protein engineering
- 2- Gene therapy
- 3- Molecular Diagnostics
- 4- Exosomes engineering

#### 17. Development interests

1. Development of recombinant enzymes
2. Development of molecular IVD tests
3. Development of rapid tests