

Javad Ranjbari

Tel: +9821-88666136

Email: javadr63@gmail.com

Employment history

Assistant professor, Shahid Beheshti University of Medical Sciences, Tehran, Iran.

2017 – 2020

- Supervises MSc and PhD students
- Teaching
- Project planning and management
- Lab management

Executive manager

2017 – 2020

Regenerative medicine & Stem cell research incubation center, SBMU, Iran.

Education

PhD- Pharmaceutical biotechnology- Shahid Beheshti University of Medical Sciences - Iran

2009 – 2015

MSc - Medical biotechnology- Tabriz University of Medical Sciences- Iran

2007 – 2009

BSc – Clinical laboratory sciences - Iran University of Medical Sciences- Iran

2003 – 2007

Achievements

Top PhD student in Shahid Motahari educational festival – 2014

Rank 6 of the national master's entrance exam, Iran – 2007

Publications

Journals

- Fabrication and characterization of cobalt ferrite magnetic hydrogel combined with static magnetic field as a potential bio-composite for bone tissue engineering – Journal of Drug Delivery Science and Technology
S Farzaneh, S Hosseinzadeh, Arash Khojasteh, **Javad Ranjbari** (corresponding author)
- Applications of bacterial cellulose as a natural polymer in tissue engineering - ASAIO Journal
M Bouhlouli, M Pourhadi, F Karami, Z Talebi, **J Ranjbari** (corresponding author), A Khojasteh
- The comparison between the osteogenic differentiation potential of Clay-polyacrylonitrile nanocomposite scaffold and graphene-polyacrylonitrile scaffold in human mesenchymal stem cell - Nano Biomedicine and engineering
F Tabatabaei, S Hosseinzadeh, H Abbaszadeh, M Khoramgah, H Ghanbarian, **Javad Ranjbari** (corresponding author), Bahram Kazemi
- Freeze-dried multiscale porous nanofibrous three dimensional scaffolds for bone regenerations - Bioimpacts
M Khoramgah, **Javad Ranjbari**, H Abbaszadeh, F Tabatabaei, S Hatami, S Hosseinzadeh, H Ghanbarian
- Regenerative medicine under control of 3D scaffolds: Current state and progress of tissue scaffolds - Current Stem Cell Research & Therapy
A Golchin, S Farzaneh, B Porjabbar, F Sadegian, M Estaji, P Ranjbarvan, Mohammad Kanafimahbob, **Javad Ranjbari**, Nasim Salehi-Nik, Simzar Hosseinzadeh
- Acetate kinase A antisense delivery by PAMAM dendrimer for decrease acetate production and increase the production of recombinant Albumin in E. coli – Iranian Journal of biotechnology
S Ahangarzadeh, H.R Moghimi, M Bandehpour, **Javad Ranjbari** (corresponding author)
- Aptamers as smart ligands for nano-carriers targeting - TrAC- trends in analytical chemistry
A Mokhtarzadeh, M Tabarzad, **Javad Ranjbari**, Miguel de la Guardia, M Hejazi, M Ramezani
- Optimization of key factors in serum free medium for production of human recombinant GM-CSF using response surface methodology - Iranian Journal of Pharmaceutical Research
N Ghasemi, M Bandehpour, **Javad Ranjbari** (corresponding author)
- Engineered recombinant protein production systems originated from Escherichia coli - Trends in Peptide and Protein Sciences journal - **Javad Ranjbari** (corresponding author)

- Effect of acyl homoserine lactone on recombinant production of human Insulin-like Growth Factor-1 in batch culture of *Escherichia coli* - Protein and peptide letters
V Babaeipour, H Vahidi, S Alikhani, A Alibakhshi, M Tabarzad, **Javad Ranjbari** (corresponding author)
- Enhanced production of Insulin-Like Growth Factor I protein in *Escherichia coli* by optimization of five key factors - Iranian Journal of Pharmaceutical Sciences
Javad Ranjbari, V Babaeipour, H Vahidi, H Moghimi, M R Mofid, M Namvara, S Jafari
- Effect of Chitosan on production of Insulin- Like Growth Factor-I protein in *Escherichia coli* - International Journal of Biosciences
Javad Ranjbari, V Babaeipour, H Vahidi, M R Mofid, H Moghimi
- Bicyclic peptides: types, synthesis and applications - Drug Discovery Today
S Ahangarzadeh, M Mahbob Kanafi, S Hosseinzadeh, M Barati, A Mokhtarzadeh, **Javad Ranjbari** (corresponding author), Lobat Tayebi
- Peptide dendrimers as valuable biomaterials in medical sciences - Life Sciences
F Tabatabaei, M Khoramgah, K Keshavarz, M Tabarzad, **Javad Ranjbari** (corresponding author)
- Soluble form production of recombinant human Insulin-Like Growth Factor-1 by NusA fusion partner in *E. coli* - Trends in Peptides and Protein sciences
S Hemmatia, **Javad Ranjbari** (corresponding author)
- The inhibitory effect of *Curcuma Longa* on telomerase activity in A549 cancer cell line - African journal of biotechnology
Pourhassan M, Zarghami N, Rahmati M, Alibakhshi A and **Javad Ranjbari**
- Targeted cancer therapy through antibody fragments-decorated Nano medicines - Journal of Controlled Release
Alibakhshi A, Abarghooi F, Ahangarzadeh S, Yaghoobi H, Yarian F, Arezumand R, **Ranjbari Javad**, Mokhtarzadeh A, de la Guardia M
- Nano-delivery system targeting to cancer stem cell cluster of differentiation Biomarkers - Journal of Controlled Release
A Mokhtarzadeh, S Hassanpour, Z Vahid, M Hejazi, M Hashemi, **Javad Ranjbari**, M Tabarzad, Miguel de la Guardia
- Effects of *Curcuma longa* extract on telomerase activity in lung and breast cancer cells -Zahedan Journal of Research in Medical Sciences
Javad Ranjbari, A Alibakhshi, R Arezumand, M Pourhassan-Moghaddam, M Rahmati, N Zarghami, M Namvaran

- Nanobodies as novel agents for targeting angiogenesis in solid cancers - *Frontiers in Immunology*
Arezumand R, Alibakhshi A, **Ranjbari Javad**, Ramazani A, Muyldermans Surg
- Anti-cancer drug delivery using carbohydrate-based polymers - *Current Pharmaceutical Design*
Javad ranjbari, A Mokhtarzadeh, A Alibakhshi, M Tabarzad, M Hejazi, M Ramezani
- An update on phytochemicals substances in molecular target therapy of cancer: Potential inhibitory effect on telomerase activity - *Current Medicinal Chemistry*
A Alibakhshi, **Javad Ranjbari**, Y Pilehvar-Soltanahmadi, M Nasiri, M Mollazade, N Zarghami
- Direct immobilization of coagulation factor VIII on Au/Fe₃O₄ Shell/Core magnetic nanoparticles for analytical application - *Trends in peptide and protein sciences*
Z Sharafi, **Javad Ranjbari**, J Javidi, N Nafissi-Varcheh, M Tabarzad
- Lectin coated MgO nanoparticle: its toxicity, anti-Leishmanial activity and macrophage activation - *Drug and Chemical Toxicology*
Jebali A, Hekmatimoghaddam S, Kazemi B, Allaveisie A, Masoudi A, Daliri K, Sedighi N, **Javad Ranjbari** .
- Incidence of Human T-Lymphotropic Virus Type 1 (HTLV-1) among blood donors from Ilam, Iran - *Iranian journal of virology*
- Study role of age in contact dependent transmission of Mycobacterium Tuberculosis in northwest of Iran by IS6110-RFLP method - *Modares Journal of Medical Sciences (Pathobiology)*

Submitted papers

- Optimization of topography and surface properties of polyacrylonitrile-based electrospun scaffolds via nonoclay concentrations and its effect on osteogenic differentiation of human mesenchymal stem cells – **IJPR**
F Tabatabaei, S Hosseinzadeh, H Abbaszadeh, M Khoramgah, H Ghanbarian, Bahram Kazemi, Javad Ranjbari (corresponding author)
- Determination of osteogenic differentiation rate of cultured human dental pulp stem cells derived from permanent teeth on an oxygenator electrospinning scaffold. – *Tissue and Cell journal*
R Samanipour, **J Ranjbari**, S Hosseinzadeh, A Khojasteh -

Congress

- Effect of homoserine lactone on production of recombinant insulin-like growth factor I protein in *E. coli* (6th International Conference on Biotechnology and Bioengineering ICABBE & 6th ICBB, September 26-28, 2017 Offenburg, Germany)
- In vitro cytotoxic effect of *Curcuma Longa* n-hexane extract on Non-Small Cell of Lung Cancer (6th National Biotechnology Congress of Iran 13-15 Aug, 2009)
- Determination of IC50 of *Curcuma Longa* total extract in epithelial like cell line of breast cancer T47D (Iranian congress of biochemistry and molecular biology, November 2009)
- Tuberculosis transmission in different age group in northwest of Iran by RFLP-PCR (2nd Iranian Congress of Clinical Microbiology 7-9 October 2008)
- Correlation between Mannose Binding Lectin gene variants and Host-Pathogen interactions by SSP-PCR (2nd Iranian Congress of Clinical Microbiology 7-9 October 2008)
- Estimation of the residual risk for the transmission of HIV from blood donors in the Ilam (2nd, laboratory & medicine congress)
- Correlation between serological level of zinc and copper with telomerase expression in patient with lung cancer by TRAP assay method. (6th Iranian congress of biotechnology)

Research projects

- Production optimization and modification of bacterial cellulose polymer as a potential dressing for wound healing applications.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Development of controlled release systems for optimized feeding and pH control in bacterial production systems
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Enhanced production of recombinant human Albumin in *E. coli* fed-batch culture by antisense acetate gene knockdown.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.

- Enhanced production of recombinant GM-CSF on CHO cell by optimization of four key factors in serum free culture medium.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Enhanced Production of Insulin-Like Growth Factor I protein in Escherichia coli by optimization of key factors.
Shahid Beheshti University of Medical Sciences Tehran, Iran
- Effect of Chitosan on production of Insulin- Like Growth Factor-I protein in Escherichia coli.
Shahid Beheshti University of Medical Sciences Tehran, Iran.
- Effect of hemoserinlacton on production of Insulin- Like Growth Factor-I protein in Escherichia coli.
Shahid Beheshti University of Medical Sciences Tehran, Iran.
- Effect of poly acrylate hydrogel conjugated with cobalt ferrite magnetic nanoparticle on dental pulp stem cell differentiation and migration.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Optimization of topography and surface properties of PAN-clay scaffold via nonoclay concentrations and investigation of its effects on bone differentiation of human mesenchymal stem cells.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Evaluation of the Properties and the Effects of the Designed Hydrogel Scaffolds based on Polyvinyl alcohol, polytetrafluoroethylene, Graphene Oxide on the Differentiation of Mesenchymal Stem cells to osteoblast precursors for using in Rat Calvari.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Fabrication and study of chitosan / aspirin hydrogel to differentiate adipose mesenchymal stem cells into bone in vitro and invivo.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Design of preclinical study for retinal dystrophy gene therapy by lentiviral vector-based CRB1 gene augmentation. *Shahid Beheshti University of Medical Sciences, Tehran, Iran.*
- Production and purification of recombinant human Bone Morphogenetic Protein 2 in CHO cells.
Shahid Beheshti University of Medical Sciences, Tehran, Iran.
- Development of optimized CHO host cell by manipulating of SIRT-6 gene by CRISPER system for recombinant antibody production. *Shahid Beheshti University of Medical Sciences, Tehran, Iran.*

- The inhibitory effect of Curcuma Longa total extract on telomerase activity in A549, T47D and MCF7 cell lines.

Tabriz University of Medical Sciences Tabriz, Iran

- Investigating the reduction of Vancomycin resistance in Enterococcus faecium by antisense-dendrimer complex.

Shahid Beheshti University of Medical Sciences Tehran, Iran.

Books

- Application of Recombinant DNA Technology in DNA Vaccine Synthesis (compilation, in Persian)
- Application of Bacteriophages in Biological Sciences (compilation, in Persian)

Skills, Software & Instrumentation

Tissue engineering	Design of expert	Flow cytometry
Stem cell culture and characterization	Process optimization	Animal experiments
Stem cell isolation and differentiation	DNA, RNA extraction	Histological staining
Scaffold synthesis and characterization	Primer design	Protein Docking
Gene cloning	Real time PCR	Bioinformatics databases
Construct design	Protein purification techniques	Bioinformatics software
Gene editing	SDS-PAGE electrophoresis	SPSS
Directed site mutagenesis	Western blotting	Minitab
Antisense-based Metabolic engineering	Immunohistochemistry	Design Expert
Recombinant protein production	Immunocytochemistry	Response surface design
Fermentation (Bacterial and yeast)	ELISA	Box Behnken, Taguchi, Plackett Burman design
	MTT assay/Alamar blue assay	Excel, Power point, Word
