



Ahmad Reza Bahrami

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Field of Specialization

Molecular Biology and Biotechnology
(Stem Cell Biology and Regenerative Medicine)

Summary

I have tried to: be goal-oriented and dedicated to strengthening administrative operations for implementation the institutional approved policies; cultivate long-lasting relationships with students and staff to strengthen program success; plan realistic strategies to serve the visions, drawn for organization; keep emphasis on the importance of team integrity, flexibility and interaction for the achievement of plans. I have practiced these approaches in my organizational managing and teaching positions and also implemented several plans to develop and explore **Stem cell and Regenerative Medicine**.

Personal Details

Name:	Ahmad Reza Bahrami	E-mail:	ar-bahrami@um.ac.ir arbahrami95@yahoo.com
Title:	Professor	Scopus Author ID:	7003277389
Date of Birth:	23.5.1964	ORCID iD:	https://orcid.org/0000-0001-9122-7216
Nationality:	Iranian		
Marital Status:	Married		
Gender:	Male		

Current Position

Full time academic staff (Full Professor) at the Ferdowsi University of Mashhad (FUM) since 2004-present, with a position of Professor in Cell and Molecular Biotechnology.

Citation Data

Scopus:

Research Interest Score	2984
Citations	5480
h-index	35

Scholar:

Citations	6750
h-index	38
i10-index	120

Appointments/Accomplishments

Selected Appointments:

- Professor at Ferdowsi University of Mashhad (FUM), Mashhad, Iran
- Vice president for Research and Technology, FUM (2013-2022)
- Founder, and Director of Institute of Biotechnology, FUM.
- Founder and director of Stem Cell and Regenerative Medicine Center
- Founder and Chairman of the Board for Pishgaman Ferdowsi, (a multidisciplinary knowledge-based Company, FUM)
- Founder of Center for Converging Technologies (NBIC)
- Member of the FUM Board of Trustees
- Secretary of several international conferences (FUM)
- Co-author of more than 140 papers in peer-reviewed journals

Further Appointments:

- **2002-2003:** Postdoctoral Research Associate in Molecular Biology of Human Stem Cells, Dept. of Biomedical Science, University of Sheffield, Sheffield, UK.
- **2001-2002:** Senior Research Assistant, Transgenomic (Ltd) Company for Industrial Recombinant DNA Technology, Sheffield, UK
- **1998-2001:** Postdoctoral Research Associate in Transgenesis of Plants PEPC gene, Dept. of Molecular Biology and Biotechnology, University of Sheffield.

Current Professional Activities

- Delivering courses on the BSc (Molecular Biotechnology) and PhD. (Stem cell Biology, advanced Genetic Engineering and Biotechnology);
- member of educational planning for Biology Department;

- member of postgraduate research committee;
- member of PhD. student selection committee;
- managing and development of advanced Cell and Molecular Biology Laboratory;
- head of Industrial Biotechnology Research Group;
- supervisor of several postgraduate students;
- PI of ongoing research grants; organizing international conferences;
- contribution in designing, strategy and policy making for transfer of research outputs to industry and society through creation of startup companies.

Memberships

Editor in Chief of "Journal of Cell and Molecular Biology"; Board member of Stem cell Branch, Iranian Genetic Society; Member of Iranian Biological Society; Chief Secretary of Biannual international conference of " Stem cell and Regenerative Medicine" (MASHHAD STEM CELL)

Education

- **1995-1998:** Ph.D. in Molecular Biology and Biotechnology, University of Sheffield, UK.
- **1989-1992:** M.Sc. in Biology, Tarbiat Modarres University, Tehran, Iran (5% upper first).
- **1984-1988:** B.Sc. in Biology, Ferdowsi University of Mashhad, Iran.

Awards

- Biochemical Society award for best North England PhD. Student at "British Students Pre-doctoral Meeting", Leeds (1997).
- Scholarship to do Ph.D. in Molecular Biology and Biotechnology, Iranian Ministry of Higher Education, based on entrance examination and interview (1995-1998).
- Departmental award for best biology student of Master Program 1991, TMUT.
- Scholarship to pursue M.Sc. degree in biology, Iranian Minister of Higher Education scholarship, based on entrance examination, 1989-1992.

Skills

• **General Skills-summary**

I have been involved in activities regarding: development of new lines of activities; policy making to direct research programs; team making and management; coordination between multidisciplinary research groups; translation of research outputs to application; administrative and managing activities in institutional and departmental levels; and development of startup teams and companies

• **Specific Skills-summary**

Cell Biotechnology and Tissue culture: Human stem cell culture; plant tissue culture; bacteria and yeast culture and gene manipulation.

Molecular Biology: DNA and RNA handling, ordinary and Q-PCR, SDS PAGE and agarose gel electrophoresis, Automated Mutation detection, DNA sequencing, mRNA differential display, cDNA Library screening, Plasmid DNA construction and gene manipulation, Protein over-expression and purification, Northern, southern and western blot analysis. Handling radio-isotopes, knock out of mRNA expression by RNA interference (RNAi), promoter-reporter gene studies, T-DNA trapped gene and promoter screening, Experience in using RNA, and DNA chromatography using DHPLC, and In situ hybridization.

Biochemistry: Immunohistochemistry of human and plant cells, Preparation and analyzing organic and inorganic components by spectrophotometry, flame photometry and atomic absorption, measurement of amino acid content by calorimetric analysis, fixing, mounting and histochemical analysis of tissues, and gas chromatography techniques.

Postgraduate Student Supervision

With over 20 years of research experience in the field of Stem Cell Biology and Molecular Biotechnology, I have supervised more than 25 post-graduate thesis and 2 post-Doctoral researchers as a sole supervisor or co-supervisor.

Interests

General interests:

Coordination between multidisciplinary groups for translation of academic outputs to application in society.

Research interests:

Molecular Mechanisms of Cardiomyopathies; Molecular Mechanisms of Immunomodulation; Exosomes as drug replacements for cure and delivery; Development of Biological models (in vitro and in vivo) for drug screening; Small molecule and siRNA screening to target familial cardiomyopathies; application of stem cell Exosomes for immunomodulation.

Previous Research Sponsors

I have been involved officially in about 10 research proposals as the principle investigator (PI), and several research proposals as the co-investigator, supported by Biotechnology and Biological Sciences Research Council (BBSRC), Yorkshire Cancer Research (YCR), Transgenomic, LTD, National Institute for Medical Research Development (NIMAD), Iranian Council for Stem Cell Sciences and Technologies, Iranian Council for Biotechnology, and Iran National Science Foundation.

References

- Prof. Mohammad Kafi, The Ferdowsi University of Mashhad, Iran
- Prof. Hossein Baharvand, Royan Institute, Iran
- Prof. Peter Andrews, The University of Sheffield, UK
- Dr. Qaiser Sheikh, The University of Sheffield, UK
- Prof. Julie E. Gray, The University of Sheffield, UK

International Journal Publications

- 1) 1- Unleashing the potential of UiO-66-NH₂ nanozyme: A novel approach to exosomal biomarkers detection in body fluids. S Soleimani-Porgou, TR Bastami, MM Matin, A Haghighitalab, H Babaei, ..., AR-Bahrami, *Sensors and Actuators Reports*, 100329, 2025.
- 2) 2- Immediate administration of hTERT-MSCs-IDO1-EVs reduces hypoalbuminemia after spinal cord injury. S Amanollahi, AR Bahrami, A Haghighitalab, HS Yazdi, HK Mehrjerdi. *Veterinary Research Forum* 15 (1), 27, 2024.
- 3) Immediate administration of hTERT-MSCs-IDO1-EVs reduces hypoalbuminemia after spinal cord injury S Amanollahi, AR Bahrami, A Haghighitalab, HS Yazdi, HK Mehrjerdi. *Veterinary Research Forum* 15 (1), 27. 2024
- 4) Gastric cancer and mesenchymal stem cell-derived exosomes: from pro-tumorigenic effects to anti-cancer vehicles. M Dolatshahi, AR Bahrami, QI Sheikh, M Ghanbari, MM Matin. *Archives of Pharmacal Research* 47 (1), 1-19. 2024
- 5) Chitosan/Nanohydroxyapatite/Hydroxyethyl-cellulose-based printable formulations for local alendronate drug delivery in osteoporosis treatment. S Afra, M Koch, J Żur-Pińska, M Dolatshahi, AR Bahrami, JE Sayed, ... *Carbohydrate Polymer Technologies and Applications* 7, 100418. 2024
- 6) A potent multifunctional ZIF-8 nanoplatfrom developed for colorectal cancer therapy by triple-delivery of chemo/radio/targeted therapy agents. S Iranpour, AR Bahrami, M Dayyani, AS Saljooghi, MM Matin. *Journal of Materials Chemistry B* 12 (4), 1096-1114. 2024
- 7) Lithium chloride induced osteogenic differentiation and immunomodulatory properties of adipose derived mesenchymal stem cells. H Hassanzadeh, AR Bahrami, H Bidkhor, M M Matin. *Journal of Cell and Molecular Research*. 2024
- 8) Enhanced theranostic efficacy of epirubicin-loaded SPION@ MSN through co-delivery of an anti-miR-21-expressing plasmid and ZIF-8 hybridization to target colon adenocarcinoma. A Abrishami, AR Bahrami, AS Saljooghi, MM Matin. *Nanoscale*, 2024
- 9) Immediate administration of hTERT-MSCs-IDO1-EVs reduces hypoalbuminemia after spinal cord injury. S Amanollahi, AR Bahrami, A Haghighitalab, HS Yazdi, HK Mehrjerdi. *Veterinary Research Forum* 15 (1), 27. 2024
- 10) Cancer cell cycle heterogeneity as a critical determinant of therapeutic resistance. EH Maleki, AR Bahrami, MM Matin. *Genes & diseases* 11 (1), 189-204. 2024
- 11) Extracellular vesicles and their cells of origin: Open issues in autoimmune diseases. A Haghighitalab, M Dominici, MM Matin, F Shekari, M Ebrahimi Warkiani, ... *Frontiers in Immunology* 14, 1090416. 2023
- 12) Targeted bacteria-mediated therapy of mouse colorectal cancer using baicalin, a natural glucuronide compound, and E. coli overexpressing β -glucuronidase. B Jafari, AR Bahrami, MM Matin. *International Journal of Pharmaceutics*. 642, 123099. 2023
- 13) Integrating Omics and CRISPR Technology for Identification and Verification of Genomic Safe Harbor Loci in the Chicken Genome. N Dehdilani, L Goshayeshi, S Yousefi Taemeh, AR Bahrami, ... *Biological Procedures Online* 25 (1), 18. 2023

- 14) Designing targeted theranostic drug delivery systems based on magnetic mesoporous silica nanoparticles and investigating their anti-cancer effects in vitro. A Kamel Mohammad Al-Mosawi, AR Bahrami, A Shokooh Saljooghi, ... *Cell and Tissue Journal* 14 (1), 33-49. 2023
- 15) Engineering Human Pancreatic RNase 1 as an Immunotherapeutic Agent for Cancer Therapy Through Computational and Experimental Studies. M Nassiri, S Ghovvati, M Gharouni, M Tahmoorespur, AR Bahrami, ... *The Protein Journal*, 1-17. 2023
- 16) Bioinformatics Analysis of lncRNA-mRNA Interaction Network in Different Clinical Stages of Esophageal Squamous Cell Carcinoma. SN Goftari, AR Bahrami, MM Matin. *Journal of Cell and Molecular Research* 15 (1), 19-33. 2023
- 17) Investigating the Anti-tumor and Apoptosis-inducing Effects of Coumarin Derivatives as Potent 15-Lipoxygenase Inhibitors on PC-3 Prostate Cancer Cells. F Maleki, H Sadeghian, AR Bahrami, SN Goftari, MM Matin. *Anti-Cancer Agents in Medicinal Chemistry (Formerly Current Medicinal ...)* 2023
- 18) Immunomodulatory Properties of Mouse Mesenchymal Stromal/Stem Cells Upon Ectopic Expression of Immunoregulator Nanos2. MK Noughabi, MM Matin, M Farshchian, AR Bahrami. *Stem Cell Reviews and Reports* 19 (3), 734-753. 2023
- 19) The effects of ellagic acid and other pomegranate (*Punica granatum* L.) derivatives on human gastric cancer AGS cells. H Cheshomi, AR Bahrami, H Rafatpanah, MM Matin. *Human & experimental toxicology* 41, 09603271211064534. 2022
- 20) Downregulation of miR-21 as a promising strategy to overcome drug resistance in cancer. T Akhtarkhvari, AR Bahrami, MM Matin. *European Journal of Pharmacology* 932, 175233. 2022
- 21) Geranyloxycarbostyryl as a potent 15-LOX-1 inhibitor showed great anti-tumor effects against prostate cancer. M Aghasizadeh, T Moghaddam, AR Bahrami, H Sadeghian, SJ Alavi, ... *Life Sciences* 293, 120272. 2022
- 22) Investigating the effects of IDO1, PTGS2, and TGF- β 1 overexpression on immunomodulatory properties of hTERT-MSCs and their extracellular vesicles. A Haghighitalab, MM Matin, A Amin, S Minaee, HR Bidkhori, ... *Scientific Reports* 11 (1), 7825. 2021
- 23) Application of smart nanoparticles as a potential platform for effective colorectal cancer therapy. S Iranpour, AR Bahrami, AS Saljooghi, MM Matin. *Coordination Chemistry Reviews* 442, 213949. 2021
- 24) Targeted delivery system using silica nanoparticles coated with chitosan and AS1411 for combination therapy of doxorubicin and anti-miR-21. F Khatami, MM Matin, NM Danesh, AR Bahrami, K Abnous, SM Taghdisi. *Carbohydrate Polymers* 266, 118111. 2021
- 25) Role of microRNAs in etiology of azoospermia and their application as non-invasive biomarkers in diagnosis of azoospermic patients. N Saebnia, Z Neshati, AR Bahrami. *Journal of gynecology obstetrics and human reproduction*. 50 (10), 102207. 2021
- 26) Application of bacterial directed enzyme prodrug therapy as a targeted chemotherapy approach in a mouse model of breast cancer N Hosseini-Giv, AR Bahrami, MM Matin. *International Journal of Pharmaceutics* 606, 120931. 2021
- 27) Improving anti-cancer drug delivery performance of magnetic mesoporous silica nanocarriers for more efficient colorectal cancer therapy. S Iranpour, AR Bahrami, S Nekooei, A Sh. Saljooghi, MM Matin. *Journal of Nanobiotechnology* 19, 1-22. 2021

- 28) Ellagic acid and human cancers: a systems pharmacology and docking study to identify principal hub genes and main mechanisms of action. H Cheshomi, AR Bahrami, MM Matin. *Molecular diversity* 25, 333-349. 2021
- 29) Use of anticancer peptides as an alternative approach for targeted therapy in breast cancer: a review. A Orafaie, AR Bahrami, MM Matin. *Nanomedicine* 16 (5), 415-433. 2021
- 30) Investigating the effects of two novel 4-MMPB analogs as potent lipoxygenase inhibitors for prostate cancer treatment. S Iranpour, AKM Al-Mosawi, AR Bahrami, H Sadeghian, MM Matin. *Journal of Biological Research-Thessaloniki* 28, 1-15. 2021
- 31) Design, synthesis and evaluation of PD-L1 peptide antagonists as new anticancer agents for immunotherapy. A Orafaie, H Sadeghian, AR Bahrami, H Rafatpanah, MM Matin. *Bioorganic & Medicinal Chemistry* 30, 115951. 2021
- 32) Immunological window of myocardial infarction. A Haghighitalab, M Kazemi Noughabi, S Minaee, A Amin, AR Bahrami. *Journal of Cell and Molecular Research*. 2021, 12 (2), 74-86.
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- 41) Application of mesenchymal stem cells to enhance non-union bone fracture healing. M Mousaei Ghasroldasht, MM Matin, H Kazemi Mehrjerdi, ... *Journal of Biomedical Materials Research Part A* 107 (2), 301-311. 2019

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- 45) Augmented migration of mesenchymal stem cells correlates with the subsidiary CXCR4 variant. A Heirani-Tabasi, H Naderi-Meshkin, MM Matin, M Mirahmadi, ... *Cell Adhesion & Migration* 12 (2), 118-126. 2018
- 46) In vivo effects of allogeneic mesenchymal stem cells in a rat model of acute ischemic kidney injury. S Havakhah, M Sankian, GH Kazemzadeh, K Sadri, HR Bidkhor, ... *Iranian journal of basic medical sciences* 21 (8), 824. 2018
- 47) Using paracrine effects of Ad-MSCs on keratinocyte cultivation and fabrication of epidermal sheets for improving clinical applications. H Hassanzadeh, MM Matin, H Naderi-Meshkin, HR Bidkhor, ... *Cell and Tissue Banking* 19 (4), 531-547. 2018
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- 49) Chemokine receptors expression in MSCs: comparative analysis in different sources and passages. A Heirani-Tabasi, S Toosi, M Mirahmadi, MA Mishan, HR Bidkhor, ... *Tissue engineering and regenerative medicine* 14, 605-615. 2017
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- 51) Enhanced cutaneous wound healing by the leaf extract of *Achillea eriophora* DC using the in vitro scratch assay. F Khosra, P Abrishamchi, AR Bahrami, MM Matin, H Ejtehadi, ... *Journal of Sciences, Islamic Republic of Iran* 28 (4), 305-312. 2017
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