

**Faculty Members of
Medical Nanotechnology Department**

Head of the Department

Dr. Amir Amani

Associate Professor

Full time member

Research Interests:

1. Use of nanoparticles/nanostructures in drug/gene delivery systems
2. Applications of artificial neural networks in nanotechnology
3. Molecular dynamics simulation of nanoparticles

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Sharmin Kharrazi PhD

Assistant Professor

Research Interests:

1. Plasmonics (SPR biosensors, Laser Tissue Welding, SERS, etc.)
2. Hyperthermia based on Metallic Nanoparticles
3. Synthesis and characterization of Metallic and Oxide nanoparticles

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Masood Khosravani PhD

Assistant Professor

Research Interests:

1. Synthesizing nano-carrier conjugated anti-cancer drugs
2. Targeted drug delivery to cancer tissues; with a focus on brain tumors and glioblastoma
3. Drug conjugated nano-carrier for crossing BBB and targeted to CNS

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Reza Faridi-Majidi PhD

Assistant Professor

Research Interests:

1. Nano-fibers: Applications, manufacturing and characterizations methods
2. Capillary electrophoresis
3. Nanoparticles: Applications, manufacturing and characterizations methods

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Hossein Ghanbari, MD, PhD

Assistant Professor

Research Interests:

1. Development of biomedical and cardiovascular implants using nanotechnology and stem cell technology
2. Application of nanotechnology in regenerative medicine and tissue engineering
3. Nano-safety and biocompatibility assessments of nano-materials

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Seyed Mehdi Rezayat, Pharm D, PhD

Professor

Research Interests:

1. Pharmacology
2. Toxicology
3. Drug Delivery Systems

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Saeed Sarkar, PhD

Professor

Research Interests:

1. Nanotechnology policy making
2. Nuclear Medicine

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Reza Saber, PhD

Assistant Professor

Research Interests:

1. Electrochemical Nano-Biosensors
2. SPM

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Gholamreza Pourmand

Professor

Research Interests:

1. Urology.

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Faculty members of Medical Biotechnology Department

Head of the Department

Esmail Sadroddiny

Assistant Professor

Full time member

Research Interests:

Antibody/Protein Biotechnology, Proteomics, (Stem) cell-based Immunomodulation.

Immune system could be considered as a double-edged sword which means it could be beneficial as well as harmful while activated. Several disorders such as allergy, asthma and autoimmune diseases would arise when immune responses get out of control. Also, graft rejection still remains as a dilemma in transplantation and novel files of medical sciences such as cell therapy and tissue engineering. My background knowledge in biological sciences and personal interest lead me to orient my major research on immune system in TWO POINTS OF VIEW:

First, (Stem) Cell-based Immunomodulation and the ways to control immune responses as a research perspective and second, production, characterization and analysis of antibodies/proteins and proteomics as my technological point of view. Apparently, the protein molecules and antibodies which may be involved in immune responses or treatment of immune system disorders would be my first choice to select research topics.

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Mohammad Ali Mazloomi

Assistant Professor

Research Interests:

Development of recombinant protein and monoclonal antibody. Optimizing bacterial and mammalian cell culture using DOE techniques. Down-stream processing and protein purification electrochemical and optical biosensors. Biotechnological process controlling and Process Analytical Technology (PAT)

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Mohammad Reza Khorramizades

Professor

Second affiliation

Research interests:

Cellular and Molecular Biology, Preclinical
Assessments, and Clinical Trials of Diabetes,
Inflammatory and Metastatic Diseases

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Gholamreza Kardor

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Mustafa Ghanei

Professor

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Abedi, Second affiliation, Associated Professor

Mohammad Javad Rasaei, Professor

Door koosh, Second affiliation, Associated Professor

Faculty Member of Tissue Engineering and Cell Science Department

Head of the Department

Jafar Ai

Professor

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Seyed Naser Ostad

Professor

Research Interests:

1. Different evaluation of cytotoxicity in new synthesis drugs
2. The profile of COX2 and NOS in human colon carcinoma (profile study)
3. Hypoxia and resistance in cancer cells
4. Stem cells and differentiation of hair cells
5. The effect of enzyme inducer (NOS) on viability of cancer cells
6. The role of nitric oxide in the resistance of breast cancer cells to tamoxifen
7. Culture of beta islet and encapsulation
8. The role of NMDA agonist in learning and memory in CA1 area of hippocampus

9. Comparative study of COX2 inhibitor in the molecular level

10. The role of NO in the microglial migration in the nerve injury

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Abdolmohammad Kajbafzadeh

Professor

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Hamid Mirzadeh

Affiliated Professor

Research Interests:

- Polymeric Biomaterials Design and Preparation.

- Biopolymers Used as Scaffold for Tissue Engineering.

- Tissue Engineering for Bone, Cartilage and Skin Regeneration (in vivo and in vitro Assays).
- Surface Modification of Polymers Using Laser or Plasma Systems.
- Surface Characterization of Biomaterials Using Novel Techniques.
- Drug Delivery Systems Using Biodegradable Polymers.
- Injectable and Biodegradable Systems, as in situ Forming for Releasing Drugs.
- Evaluation of Blood and Tissue/Material Interactions (in vivo and in vitro Assays).
- Evaluation of the Biocompatibility of Polymeric Biomaterials (in vivo and in vitro Assays).

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Seyed Mohammad Tavangar

Professor

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Jamshid Hajati

Associate Professor

Research Interests:

Tumor Immunology

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Javad Verdi

Associate Professor

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Mahmoud Azami

Assistant Professor

Research Interests:

Scaffold for tissue engineering

Bone tissue engineering biomimetic scaffolds for bone repair

Biom mineralization Design and synthesis of nano and micro structural
materials for medical applications biomaterials synthesis

(Calcium phosphate, Bioactive glasses, etc.)

Nanotechnology in medicine and tissue engineering

Controlled drug delivery systems

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Nasrin Lotfibakhshaiesh

Assistant Professor

Research Interests:

- Design and characterization of novel biomaterials
used in tissue engineering and regenerative medicine
- Bioactive coatings/ scaffolds for tissue engineering applications
- Angiogenesis inducing bioactive glasses
- Bioactive materials for cell response
- Bioactive scaffolds for skin tissue engineering

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Somayeh Ebrahimi

Assistant Professor

Research Interests:

My research interests lie in nerve myelination and regeneration in spinal
cord injury with a special focus on mesenchymal stem cells and induced

pluripotent stem cells differentiation into neuro-glia and Schwann cells on nanofibrous scaffolds and fibrin hydrogel. I'm currently analyzing the role of different small molecules in neural cell dedifferentiation in vitro and in vivo. Techniques I'm using include primary cell culture, 3D culture, real time PCR, immunostaining, and electron microscopy.

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Mohammad Vasei

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Department of Neuroscience and Addiction Studies

Head of the Department

Mehdi Tehrani-Doost. MD

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Maryam Zahmatkesh

Associate Professor

Full time member

Research Interests:

Cellular mechanisms underlying Alzheimer's disease, role of micro particles; Optogenetic study of memory changes during Alzheimer's disease

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Anahita Torkaman –boutorabi

Assistant Professor

Full time member

Research Interests:

Learning and memory (behavioral and molecular aspects)

Neurodegenerative disease (Parkinson’s disease and multiple sclerosis)

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Maryam Farahmandfar

Assistant Professor

Full time member

Research Interests:

Molecular and behavioral mechanisms of memory and addiction

Cell culture and stem cell therapy in neurodegenerative disease

(Epilepsy, Stroke, MS, etc.), Electrophysiological memory modulation

in neurodegenerative disease, Chemical assessment of extracellular

fluid in neurodegenerative disease and addiction

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Nasim Vosoughi

Assistant Professor

Fulltime member

Research Interests:

- 1- Molecular and cellular mechanisms of addiction (human and animal studies)
- 2- Genetics and epigenetics of addiction (human and animal studies)
- 3- Biomarkers in addiction (human studies)

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Faculty Members of Molecular Medicine Department

Head of the Department

M.H. Ghahramani

Professor

Research Interests:

1. Cell signaling in cancer and Cell cycle inhibition
2. Protein functional domain analysis
3. Signaling crosstalk and system biology
4. Signaling in neuronal apoptosis
5. Molecular mechanism of conditioning

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Zahra Madjd

Associate Professor

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M.H. Moddarsi

Professor

Research Interests:

Genes are involved in Infertility and Testis/Cancer genes--- testis specific genes which are expressed in cancers too Recombinant

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Parvin Pasalar

Professor

Research Interests:

1. Free Radical and Antioxidant Status in different conditions and Diseases
2. Thalassemia
3. Molecular diagnosis of some diseases

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Behrouz Nikbin Moghadam

Professor:

Immunogenetics, Immunohematology

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