



# Peyman Keyhanvar

MD, PhD, MBA, R&T Fellowship



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## Social Network



Google Scholar



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## Education

### Undergraduate Experimental Sciences

National Organization for Development of Exceptional Talents (NODET, SAMPAD in Persian)

### Doctorate of Medicine

Tabriz University of Medical Sciences

### MBA Certificate

Academic Center for Education, Culture and Research in University of Science and Culture

### PhD in Medical Nanotechnology (Regenerative Medicine)

Tehran University of Medical Sciences

### Fellowship in Research and Technology

Iran Ministry of Health and Medical Education joint with Shahid Beheshti University of Medical Sciences

### Fellowship in e-learning

Shiraz University of Medical Sciences



## Present Professional Experience

### Assistant professor of nanotechnology

Tabriz University of Medical Sciences

### Member of Country Ministry of health committee for Futures Study & Hegemony core toward 3<sup>rd</sup> Generation University

Ministry of Health and Medical Education

### Head of Country North East Universities Entrepreneurship & Knowledge Based Businesses

Ministry of Health and Medical Education

### Founder & Head of Cell Therapy & Regenerative Medicine Ward

Shahid Madani Hospital, Tabriz University of Medical Sciences

### Vice-Chancellor for Research and technology in Institute for Stem Cell & Regenerative Medicine (پژوهشکده)

Shahid Madani Hospital, Tabriz University of Medical Sciences

### Founder & Head of Technology and Business Development Office (TBDO)

Tabriz University of Medical Sciences

### Co-Founder & Head of Scientific Committee for International Thinking & Entrepreneurship Olympiad (ITEO)

Iran Ministry of Education [www.iteo.ir]

### Head & Founder of University Students Education & Research Network (USERN) group for Converging Knowledge & Technologies (NBIC)

■ Founder of Interdisciplinary team for:

- ✓ Bioreactor Design and Development
- ✓ Health IoT, Artificial Intelligence & Machine Learning
- ✓ Medical Microfluidics and Lab-on-Chip and 3D Bioprinting

## Languages

### Azerbaijani (Mother Language)

Reading Level	■ ■ ■ ■ ■ ■
Writing Level	■ ■ ■ ■ ■ ■
Listening Level	■ ■ ■ ■ ■ ■
Speaking Level	■ ■ ■ ■ ■ ■

### English

Reading Level	■ ■ ■ ■ ■ ■
Writing Level	■ ■ ■ ■ ■ ■
Listening Level	■ ■ ■ ■ ■ ■
Speaking Level	■ ■ ■ ■ ■ ■

### Turkish

Reading Level	■ ■ ■ ■ ■ ■
Writing Level	■ ■ ■ ■ ■ ■
Listening Level	■ ■ ■ ■ ■ □
Speaking Level	■ ■ ■ ■ ■ □

### Persian

Reading Level	■ ■ ■ ■ ■ ■
Writing Level	■ ■ ■ ■ ■ ■
Listening Level	■ ■ ■ ■ ■ ■
Speaking Level	■ ■ ■ ■ ■ ■

### Arabic

Reading Level	■ ■ ■ ■ ■ □
Writing Level	■ ■ ■ ■ ■ ■
Listening Level	■ ■ ■ ■ □ □
Speaking Level	■ □ □ □ □ □

### Chairman of the Board & Co-Founder ARTAN1100 Startup Accelerator

- Foundation of the 1st country startup accelerator company in north-east
  - Evaluating >70 ideas, hosting >30 startup ideas, 15 teams in the pre-acceleration stage and 6 teams in the acceleration stage
  - Developing Startup & Entrepreneurship Ecosystem Network of Azerbaijan (SEENA)
  - Developing East Azerbaijan first networks on game developing (TRIGGER), Coaching (cafe coaching), Digital Marketing policy making committee and agency (ARTANDMA)

### CEO & Co-Founder Alumni of National Organization for Development of Extraordinary Talents (SAMPAD) NGO named «HAMPADI»

East Azerbaijan [[www.sampad.club](http://www.sampad.club)]

### Secretary-General of Iran Society of Nanomedicine

- North East Branch



## Past Professional Experience

Founder Committee member and exam designer of national ministry of Health English Language Exam(MHLE)

Design Member of Microfluidics and Chemical Engineering Group of the Council for the Development of Science and Technology for Stem Cells of the Vice Presidency for Science and Technology

Assistant Director of Technology and Research Institute for Stem Cells and Regenerative medicine (مرکز جامع سلول های بنیادی و پزشکی بازساختی)

Responsible for the Committee on Innovation, Technology and Commercialization of the Iranian Scientific Association of Nanotechnology in Iran

Responsible for the Committee on Innovation, Technology of the Scientific Association of Tissue Engineering and Regenerative Medicine of Iran

Technology, commercialization and entrepreneurship consultant of Council for Development of Stem Cell Sciences and Technologies, Vice-Presidency for Science and Technology, Islamic republic of Iran

Vice chancellor for translation, technology and commercialization (TTC), Azerbaijan Stem Cell And Regenerative Medicine comprehensive center (SCARM), Tabriz University of Medical Sciences

Vice dean of institute for stem cell and regenerative medicine, Tabriz University of Medical Sciences

Design Vice dean of Azerbaijan comprehensive center for stem cell and regenerative medicine (SCARM), Tabriz University of Medical Sciences

## Soft Skills

Complex problem-solving	100%
creativity and innovation	100%
Communication skills	100%
Collaboration and coordination	100%
critical thinking	80%
System thinking & analysis	80%
Leadership	100%
Cognitive flexibility	100%
emotional intelligence	80%
Negotiation and persuasion	70%
Responsibility	100%
self-actualization & motivation	80%
Detail orientation	100%
Resilience	80%
Trustability	100%
Active learning	100%
Ethical commitment	100%
Giving a lecture	100%

Founder of Research, Technology and Development (RTD) office , Faculty of advanced technologies in medicine

Member of Knowledge translation, Exchange and Commercialization committee (KTEC). Iran University of Medical Sciences

Member of Industrial relation committee. Iran University of Medical Sciences

Member of the Planning and Design Group of Research and Technology Complex, Rab'e Rashidi

Founder and Secretary General of the StemUp 2017 Tabriz event, the first Middle Eastern Start-Up and Activation Event in Regeneration of Stem Cells and Medicine

## Selected Research and/or Technology Projects

Design and manufacture of a multipurpose bioreactor for proliferation of fibroblast cells

Designing an automatic method for optimizing decellularization of human amniotic membrane to prepare for cross-linked scaffolds in bioreactor\

Developing Bioreactor based nanocellose to use in wound regeneration

Amniotic Membrane Standardization for clinical use by bioreactor-based decellularization method and Optimizing suturability properties

Prototype splint design and the possibility of personalized splint fabrication through 3-Dimensional printing using carbon nanotubes as a step in the fourth industrial revolution

Investigating the potential of cartilage tissue regeneration of decellularized bovin cartilage particles in 3D printed collagen / alginate-hyaloran microparticle scaffolds

Developing technical knowledge of fabric layer containing copper nanoparticles and investigating its Virucidal and bactericidal properties for breath mask application

Fabrication of artificial blood vessels for cardiovascular application

Designing Orthopedic screw by biodegradable 3d printed nanobiopolymer

Tympanic regeneration using sprayable biopolymer

## Hard Skills

### Software skills:

SPSS	100%
ChemBioOffice	70%
Photoshop	80%
Camtasia	90%
Ulead Studio	80%
Microsoft Word	100%
Microsoft Powerpoint	100%
Prezi	90%
Wordpress	70%
CAMPBAR	70%
MatLab	40%
Strategy management	100%
Innovation Management	100%
Idea Validation	100%
Technology assessment	80%
UX design	80%
Product design	100%
System design	100%
Gamification strategist	80%
Digital marketing	80%
Neurobranding/marketing	80%
Event developing/management	100%
Startup mentorship	100%
Team Coaching	100%
Futures Study	100%
Poetry ( Azerbaijani, Persian)	100%
Modern Painting	80%
Logo Designing	100%

Designing glasses frame capable of detecting pulse of the temporal artery branch and equipped with the internet of things (IoT)

Simulating the electrical response of Boron Nitride Nanotubes by COMSOL and artificial intelligence for their application in nerve regeneration.

Feasibility study and designing of echocardiography contrast agent based on nanoparticles

A model of computer decision supporting system (CDSS) to Early breast cancer diagnosis based on the routine blood data analysis using machine learning methods

### Selected Articles (*H-index=8*)

#### Shape-memory materials and their clinical applications

Publisher : International Journal of Polymeric Materials and Polymeric Biomaterials (ISI, 4 year IF=2.238), October 2020  
<https://www.tandfonline.com/doi/abs/10.1080/00914037.2020.1833010>

#### A summary on non-viral systems for gene delivery based on natural and synthetic polymers

Publisher : International Journal of Polymeric Materials and Polymeric Biomaterials (ISI, 4 year IF=2.238), October 2020  
<https://www.tandfonline.com/doi/abs/10.1080/00914037.2020.1825081>

#### Will stem cells from fat and growth factors from blood bring new hope to female patients with reproductive disorders?

Publisher : Journal of Reproductive Biology (ISI, 5 year IF= 2.185), June 2021  
<https://www.sciencedirect.com/science/article/abs/pii/S1642431X20303028>

#### An optimized protocol for Isolation, Expansion and Activation of Natural Killer cells from human Adipose Tissue

Publisher : Method Articles, Jan 2021  
<https://europepmc.org/article/ppr/ppr268396>

#### Curcumin delivery mediated by bio-based nanoparticles: A review

Publisher : Molecules (ISI, IF= 3.309), Feb 2020  
<https://www.mdpi.com/1420-3049/25/3/689>

#### Optimization of Influential Variables in the Development of Buprenorphine and Bupivacaine Loaded Invasome for Dermal Delivery

Publisher : Advanced Pharmaceutical Bulletin (ISI, IF=2.809), Sep 2020  
<https://apb.tbzmed.ac.ir/Inpress/apb-28522>

#### Shape-memory materials and their clinical applications

Publisher : International Journal of Polymeric Materials and Polymeric Biomaterials (ISI, 4 year IF=2.238), October 2020  
<https://www.tandfonline.com/doi/abs/10.1080/00914037.2020.1833010>

## Academic Hard Skills

### Specific technics:

Nanomaterial synthesis	100%
Electrospining	70%
Green synthesis	80%
Freeze drying technics	90%
Cell culture	80%
Stem cell isolation and culture	100%
Acellular techniques	100%
Exosome isolation	100%
Fluidic systems design	100%
CRISPR	100%
Animal Experiments design	100%
Clinical trial design	100%
3 <sup>rd</sup> generation university design	100%
Curriculum Development	100%
Research design	100%
Research project management	100%

## Hobbies and interests

- Playing Football, Tennis, Basketball
- Swimming, Diving
- Skating
- Painting
- Poetry
- Theatre
- Music ( Azerbaijani, Classic, Pop)
- Cinema
- Googling
- Linguistic studying
- Hiking & ecotourism
- Animal caring
- History studying & museum
- Opera & cultural dance



## Selected Teaching and workshop lecture Experiences

### In English

General English as foreign language *(for MSc students)*

Medical terminology *(for MSc students)*

Specific English for academic purposes *(for MSc students)*

Nanomaterials and nanostructures *(for MSc students)*

Methods of nanostructure fabrication *(for PhD/MSc students)*

Nonbiotechnology *(for PhD/MSc students)*

Nanomedicine *(for PhD/MSc students)*

**Fundamentals of physiopathology** *(for MSc students)*

Advanced nanomaterials *(for PhD students)*

Introduction to chemistry *(for MSc students)*

Biology and life sciences *(for PhD/MSc students)*

Business, entrepreneurship and economics in nanotechnology *(for MSc students)*

Experimental animal studies *(for MSc students)*

Technology concepts and transfer *(for MSc students)*

Product management and design *(for PhD/MSc students)*

Medical Information Systems *(for PhD/MSc students)*

Research methodologies *(for PhD/MSc students)*

Neuromarketing *(for PhD/MSc students)*

Neurobranding *(for PhD/MSc students)*

Creativity and innovation *(for PhD/MSc students)*

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### In Azerbaijani

How to write and read Azerbaijani

Business Model Canvas(BMC)

Research methodologies

introduction to nanomedicine

introduction to NBIC

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### In Persian

Medical biochemistry

Polymer

Physiology

Molecular and cell biology

Introduction to nanotechnology

Nanomaterials and nanostructures

Methods of nanostructure fabrication

Nonbiotechnology

Nanotechnology in regenerative medicine

Nanomedicine

Introduction to physiopathology

Advanced nanomaterials

Modeling at nanoscale

Introduction to chemistry

Ecology

Biology and life sciences

Entrepreneurship and economics

Experimental animal studies

Product Managemet and design

Medical Information Systems

Research Methodologies

An introduction to bioreactor design

An introduction to microfluidic systems

Tissue engineering

Knowledge translation and exchange

Creativity methods

Intellectual properties(Patents, Industrial design and trademarks)

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