

## CURRICULUM VITAE

Full Name: Mahdi Mahdipour  
Date of birth: 16/09/1981  
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### **Current positions:**

- Head of Core Research Laboratory, Tabriz University of Medical Sciences
- Vice-research, Stem Cell Research Center, Tabriz University of Medical Sciences
- Member of research committee of Stem Cell Research Center, Tabriz University of Medical Sciences, Tabriz, Iran
- Affiliated to the department of Reproductive Biology, Faculty of Advance Medical Sciences, Tabriz University of Medical Sciences
- Deputy of research, department of Reproductive Biology, Faculty of Advance Medical Sciences, Tabriz University of Medical Sciences
- Affiliated to department of Applied Cell Sciences, Faculty of Advance Medical Sciences, Tabriz University of Medical Sciences
- Chief Executive Officer, NanoGenTec Co. Ltd.

### **Professional profile:**

- Professional and trained academic writer and reviewer
- Motivated Biologist, specialist in reproductive biotechnology/molecular cell biology
- Excellent aptitudes in design, management and performance of experiments involved in molecular biology, cell culture and reproductive biology

### **Research lines/interests:**

- Cell and Cell free/reproductive biology
  - Isolation, culture and characterization of cells/stem cells
  - Primary cell culture and expansion
  - Decellularization of tissues and organs
  - Oogenesis and spermatogenesis
  - Ovarian rejuvenation
  - Mitochondrion and aging
  - Early detection of prenatal anomalies/disorders
  - Stem cell/cell-free therapy and infertility
  - Small non-coding RNAs and developmental competence of oocyte
  - Exosome isolation and characterization and related engineering

- Animal models in reproductive biology studies
  - Menopause (Premature ovarian failure/ Premature ovarian Insufficiency)
  - Azoospermia/Oligospermia
  - Polycystic ovary syndrome
  - Preeclampsia
  - *In-vitro* fertilization in rodent and large animal models
  - Pre-implantation embryo culture in rodent and large animal models

**Main skills/abilities:**

- Reproduction related techniques: oocyte recovery, *in vitro* maturation, *In vitro* fertilization, embryo culture, micro-injection and sperm preparation
- Molecular biology techniques: qRT-PCR, cloning, sequencing, immunoblotting, immunohistochemistry, immunoprecipitation, micro RNA quantification and inhibition, bioinformatics, etc.
- Cell culture techniques
- Confocal microscopy
- Animal (laboratory animals) handling and modeling skills
- Excellent communication and interpersonal skills

**Academic Background:**

**2010-2016     PhD Researcher in the field of Biotechnology (Reproduction Biology)**  
 Under the research school of Cancer Stem cells & Developmental  
 Biology of Reproduction Cells Group  
Faculty of Veterinary Medicine (Utrecht University, the Netherlands)

*Thesis title: Maintaining genomic integrity and developmental competence in the mammalian oocyte during meiosis and pre-implantation embryos, function of small non-coding RNAs in the oocytes and early embryos*

**2010-2016     PhD Training Programme, “Cancer, Stem Cells, and Developmental Biology”**  
 Training Programme of the Graduate School of Life Sciences,  
(Utrecht University and Utrecht Medical School, the Netherlands)

**2011-2013     Guest Researcher**

*Hubrecht Institute, Research institute of the Royal Netherlands Academy of Arts and Sciences (KNAW) (Developmental Biology & Stem Cell Research)  
 Professor Dr. René Ketting lab, Non-coding RNA Group*

**2006-2008     Master of Science: Animal Genetics and Breeding**  
 Dairy Cattle Breeding Division, (National Dairy Research Institute, India)  
 (August 2006 – August 2008)

*Thesis title: Genetic screening of Karan Fries bulls for Bovine Leukocyte Adhesion Deficiency Syndrome (BLAD) and Complex Vertebral Malformation (CVM)*

**2007-2008      Guest Researcher**

*DNA Sequencing Lab, National Bureau of Animal Genetic Resources, Karnal, India*

**Teaching experience:**

- Cellular and molecular biology: *Tabriz University of Medical sciences* (PhD course for Medical Physiology students)
- Stem Cells: *Tabriz University of Medical sciences* (PhD course for Applied Cell Sciences students)
- Cell engineering: *Tabriz University of Medical sciences* (PhD course for Applied Cell Sciences students)
- Organ Regeneration: *Tabriz University of Medical sciences* (PhD course for Applied Cell Sciences students)
- IVF techniques in laboratory animals: *Tabriz University of Medical sciences* (PhD course for Reproductive biology students)
- Biotechnology: *Tabriz University of Medical sciences* (PhD course for Reproductive biology students)
- Andrology: *Tabriz University of Medical sciences* (PhD course for Reproductive biology students)
- Cellular and molecular biology: *Tabriz University of Medical sciences* (PhD course for Reproductive biology students)
- Writing in English for publications: *Tabriz University of Medical sciences* (PhD course for Reproductive biology students)
- Oocyte recovery techniques in laboratory animals, *Tabriz University of Medical sciences* (workshop for PhD and Master students)
- Cell culture techniques, *Tabriz University of Medical sciences* (workshop for PhD and Master students as well as international students)
- An introduction to Solution preparation using Stoichiometry method, *Tabriz University of Medical sciences* (workshop for PhD and Master students)
- Introduction to organize references for academic writing using Mendeley program, *Tabriz University of Medical sciences* (workshop for PhD and Master students)
- Confocal Microscopy, PhD and Master students
- Primer design, qRT-PCR and results interpretation, *Tabriz University of Medical sciences* (workshop for PhD and Master students)

**Language skills:**

Farsi/Persian (Native)  
Azari (Native)  
English (writing and speaking: fluent)  
Dutch (Basic)

**Students (Past and Present):**

- Mehrsa Fajri, DVM, PhD student Project: Evaluation of the effect of intra-ovarian injection of exosomes loaded with metformin in ovarian rejuvenation in the rat model of premature ovarian failure.
- Shahin Ahmadian, BSc, MSc, PhD student Project: Studying the regenerative effects of engineered exosomes loaded with Nrf2 activator in the rat model of azoospermia.

- Halimeh Mobarak, DVM, PhD Student, Project: The Effects of Amniotic Fluid-Derived Exosomes On Experimental Model of Azoospermia in Rat
- Nahideh Nazdikbin, MSc, PhD student, Project: Studying the Regenerative Effects of Menstrual Blood Stem Cells on Experimental Model of Premature Ovarian Failure in Rat.
- Somayeh Rashidi, BSc. MSc., PhD Student, Project: Investigating the angiogenic effects of melatonin-treated endothelial progenitor cells encapsulated in alginate hydrogel in hind limb ischemic mouse model.
- Sara Salami, BSc, MSc. Student, Project: Assessment of follicular development, antioxidant capacity and revascularization of grafted ovarian tissue in encapsulated with sodium selenite.
- Arash Hashemi, Medical student, Project: Effect of sericin on miR-494/SIRT1 signaling pathway in ovarian cancer cell line (OVCAR-3).
- Sarina Salimpour, Medical student, Project: Effects of sericin on expression of miR-34a and apoptosis-related factors BAX and BCL-2 in ovarian cancer cell line (OVCAR-3)
- Golbarg Rouzbahani, BSc, MSc. Student, Project: Studying modulatory effects of Wnt signaling pathway on angiogenesis properties of endothelial progenitor cells in hind limb ischemic mouse model.
- Darya Lotfi, Pharmacology student, Isolation, characterization, and cytotoxicity investigation of the exosomes secreted by doxorubicin primed cells.
- Afsaneh Bagherzadeh, BSc, MSc. student, Project: Studying the therapeutic effect of bacterial lipase on bacterial lipopolysaccharide toxicity level in the chick embryo model.
- Marziye Sadat Moslehian, BSc, MSc. Student, Project: The effect of melatonin on mitophagy process and cancer progression in colorectal tumoroid structures composed of colorectal cancer.
- Kowsar Salimi, Medical student, Project: Studying the freezing process on structural integrity and physicochemical properties of human serum extracted exosomes.
- Seyed Meisam Hosseini, Medical student, Project: Investigating the effect of melatonin injection on rehabilitating fertility in menopause rats.
- Hassan Mahmoudzadeh, Medical Student, Project: Effect of carvacrol on the regeneration of lung tissue in type 1 diabetic mice via Nrf2/TLR4 axis.
- Fatemeh Sokouti, BSc, MSc. student, Project: The Role of Estradiol On Differentiation of Testicular Spermatogonial Stem Cells Toward Sertoli Cells
- Shahin Ahmadian, BSc, MSc. student, Project: Studying the effect of intra-ovarian injection with platelet rich plasma (PRP) in ovarian rejuvenation of menopause rats and restoration of ovulation.
- Sepideh Sheshpari, BSc., MSc. student, Project: The effect of intra-ovarian injection of cKit<sup>+</sup> bone marrow cells in ovarian rejuvenation of menopause rats
- Niloufar Ghanbarzadeh, BSc, MSc. Student, Project: Clinical Relationship of Dietary Inflammatory Index with Insulin Resistance and Free Androgen Index in People with Polycystic Ovary Syndrome.
- Roghayeh Azami, BSc, MSc. student, Project: The Effect of Soft Capsule Nigella Sativa Oil On Early Menopausal Symptom and Serum Levels of Some Oxidative Markers in Postmenopausal Women: A Randomized, Triple-Controlled Clinical Trial
- Fatemeh Hejazi, BSc, MSc. student, Project: Relationship between serum levels of folic acid and superoxide dismutase enzyme (SOD-1) with the results of first

- trimester Down syndrome screening methods and fetal karyotype in high risk pregnant women referring to the Alzahra educational hospital of Tabriz
- Soheil Vazifehdoust, DVM student, Project: Comparison of The Efficacy of Two Culture Media Handmade (Hams F10 with Umbilical Serum) And Commercial (G1/G2) On In-Vitro Development of Mouse Embryos
  - Amir Shoari, DVM student, Project: Comparison of The Efficacy of Two Culture Media Handmade (Hams F10 with Horse Serum) And Commercial (G1/G2) On In-Vitro Development of Mouse Embryos
  - Farhad Amjadi, DVM student, Project: Project: Bovine Ovarian Tissue Decellularization Followed by Its Re-cellularization Using Cultured Granulosa Cells
  - Marjaneh Pournaghi, DVM student, Project: Effect of Melatonin Treatment on Exosomal Secretion Capacity of Bovine Cumulus Cells.
  - Rasa Khodavirdilou, DVM student, Project: Studying The Effect of Platelet Rich Growth Factor on Growth and Development of Ovine Pre-Implantation Embryos
  - Sima Mojtahedin, BSc, MSc student, Project: Differentiation of Mice Derived Embryonic Stem Cells to Pacemaker Cells
  - Fariba Yahyavi, MSc, PhD student, sabbatical leave, Project: Animal Modeling of Endometriosis and treatment followed by Non-Surgical Embryo Transfer (NEST) in mice.
  - Behrad Mohammadzadeh, Bsc, MSc. student, Project: Evaluating the effect of Ishikawa cells treatment with melatonin on the biogenesis of exosome
  - Shadi Atazadeh, Bsc, MSc student, Investigating the effects of alginate hydrogels on differentiation capacity of spermatogonia stem cells through the autophagy Process.
  - Maryam Hasan Sadeh, Bsc, MSc. student, Investigating the effects of alginate hydrogels on differentiation capacity of spermatogonia stem cells through the Wnt pathway.

### **Congress: International oral and poster participations**

- Nahideh Nazdikbin Yamchi, Shahin Ahmadian, Halimeh mobarak, Farhad Amjadi, Rahim Beheshti, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour** "Exosome therapy improved ovarian function in the rat model of premature ovarian insufficiency", *5<sup>th</sup> International and 26<sup>th</sup> National Congress of Physiology and Pharmacology*, Semnan, Iran, 11-13 October, 2023.
- **Mahdi Mahdipour** "Potential regenerative effects of bone marrow endothelial cells versus mesenchymal stem cells in POF rats" *10<sup>th</sup> Yazd International Congress and Student Award on Reproductive Medicine*, Yazd, Iran, 20-22 May, 2023.
- Nahideh Nazdikbin, Mojtaba Alizadeh Ashrafi, Hamed Abbasi, Amjadi F, Mohammad Hossein Geranmayeh, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour** Ovarian function in the POI model rats exposed to classical music, *10<sup>th</sup> Yazd International Congress and Student Award on Reproductive Medicine*, Yazd, Iran, 20-22 May, 2023.
- **Mahdi Mahdipour**, "Potential regenerative effects of amniotic-fluid derived exosomes on the rat model of azoospermia", *9<sup>th</sup> Yazd International Congress and Student Award on Reproductive Medicine*, Yazd, Iran, 20-21 May, 2021.
- **Mahdi Mahdipour**, "Adverse effects of bacterial LPS on expression levels of inflammatory genes during chicken fetal development", *4<sup>th</sup> international and 16<sup>th</sup> Iranian Genetics Congress*. Tehran. Iran, April 15-17, 2020.
- **Mahdi Mahdipour** "Studying the impact of estradiol on CD90 positive spermatogonial stem cells viability", *The 4<sup>th</sup> International Congress on Biomedicine, Tehran, Iran*, November 10-21, 2020.

- **Mahdi Mahdipour**, “The Effect of Intra-Ovarian Injection of c-Kit Positive Cells Derived from Bone Marrow Cells in Ovarian Rejuvenation of Menopause Rats; A Pre-Clinical Study”, *International Congress on Stem Cell & Regenerative Medicine*, Tehran, Iran, July 13-15, 2017.
- **Mahdi Mahdipour**, “Platelet-Rich Plasma and its Restorative Effect on Fertility for Rat Model of Menopause; A Pre-Clinical Study”, *International Congress on Stem Cell & Regenerative Medicine*, Tehran, Iran, July 13-15, 2017.
- **Mahdi Mahdipour**, “One Step to Defeat the Acute Myeloid Leukemia (AML) by Ultrasensitive Detection of Single Cancer Stem Cell”, *International Congress on Stem Cell & Regenerative Medicine*, Tehran, Iran, July 13-15, 2017.
- Soheil Vazifehdust, Mohammad Ali Ebrahimi Saadatlou, **Mahdi Mahdipour**, Mohammadreza Esmaeelzadeh, “Comparison of the Efficacy of two culture media handmade (Hams F10 with umbilical serum) and commercial (G1/G2) on in-vitro development of mouse embryos”, *4<sup>th</sup> International Congress on Reproduction (ISERB)*, Tehran, Iran, April 25-27, 2018.
- **Mahdi Mahdipour**, “MicroRNAs as a Marker for Assessment of Developmental Competence in the Maturing Oocytes”, *International Congress on Stem Cell & Regenerative Medicine*, Tehran, Iran, July 13-15, 2017.
- B. A. J. Roelen, E. F. Roovers, D. Rosenkranz, **M. Mahdipour**, C.-T. Han, N. He, S. M. Chuva de Sousa Lopes, van der Westerlaken, L. A.J., H. Zischler, F. Butter and R. F. Ketting, “PIWIL3 and piRNAs in mammalian oocytes”, *Annual meeting of the International Society for Stem Cell Research (ISSCR)*, Stockholm, Sweden, 24-27 June, 2015.
- **Mahdi Mahdipour**, Ana-Rita Leitoguinho, Ricardo Zacarias, Maartje Luteijn, Helena Van Tol, Rene Ketting, Bernard Roelen, “TACC3 is a crucial protein for bovine oocyte meiosis”, *17th International Congress of Developmental Biology*, Cancun, Mexico. 16-20 June, 2013.
- **Mahdi Mahdipour**, Leitoguinho, A. R, Silva, R., Van Tol, H., Stout, T., Rodrigues, G. and Roelen, B. “The role of transforming acidic coiled-coil protein-3 in oocyte meiosis”, *18th national and 6th international congress of biology of Iran, kharazmi University*, Karaj, Iran, 26-29 August 2014. (Invited speaker)
- **Mahdi Mahdipour**, Helena TA van Tol, Tom AE Stout, Bernard AJ Roelen, “Validation of reference microRNAs for normalizing expression data generated by quantitative PCR”, *41st Annual Conference of the International Embryo Transfer Society, Versailles, France*, January 10-13, 2015.
- **Mahdi Mahdipour**, Ashwani Sharma, M.S. Tantia, Avtar Singh, Bina Mishra, and B.K. Joshi. 2008. “Incidence of Bovine Leukocyte Adhesion Deficiency Syndrome (BLAD) in carrier Karan Fries Bulls”. *Proc. IX Conference of Indian Society of Animal Genetics and Breeding. Symposium on Livestock Genomics in Productivity Enhancement for Food Security*, New Delhi, India, 120-121.
- **Mahdi Mahdipour**, Ashwani Sharma, M.S. Tantia, Avtar Singh, Bina Mishra, and B.K. Joshi. 2008. “Incidence of Complex Vertebral Malformation carriers in Karan Fries Bulls”. *Proc. IX Conference of Indian Society of Animal Genetics and Breeding. Symposium on Livestock Genomics in Productivity Enhancement for Food Security*, New Delhi, India, 115-116.

#### **Patent:**

- Acoustic box for biological and cognitive-behavioral studies in animals (Iranian Patent Registration number: 109044)

#### **Editorial Board member:**

- Frontiers in Bioengineering and Biotechnology “Stem cell-derived exosome therapy of cancer: from bench to bed” (Topic Editor of Journal)
- Regenerative Biomedicine (Shahid Sadoughi University of Medical Sciences, Yazd, Iran)
- West Kazakhstan Medical Journal

## **Featured publications:**

### [Google scholar](#)

- Dana Saipiyeva, Manarbek Askarov, Nazanin Jafari, Rano Zhankina, Paul R Heath, Larissa Kozina, Alyona Boltanova, Ardak Omarbekov, Nurbek Ilyassov, Turlybek Tuganbekova, Nadiar M Mussin, Asset A Kaliyev, Yerlan Sultangereyev, Farhad Rahmanifar, **Mahdi Mahdipour**, Shabnam Bakhshalizadeh, Reza Shirazi, Nader Tanideh, Amin Tamadon, "Bone Marrow and Peripheral Blood Mononuclear Cell Phenotype Changes after Cultivation and Autologous Infusion in Patients with Primary Biliary Cholangitis", Iranian Journal of Medical Sciences, 10.30476/ijms.2023.99613.3172, 2024.
- Melika Izadpanah, Banafsheh Yalameha, Maryam Zamani Sani, Parisa Khani Cheragh, **Mahdi Mahdipour**, Aysa Rezaabakhsh, Reza Rahbarghazi, "Exosomes as theranostic agents in reproduction system", Advanced Biology, 8(2): 2300258, 2024.
- Halimeh Mobarak, Farzin Javid, Maryam Taghavi Narmi, Narges Mardi, Fatemeh Sadeghsoltani, Parisa Khanicheragh, Samaneh Narimani, **Mahdi Mahdipour**, Emel Sokullu, Ferzane Valioglu, Reza Rahbarghazi, "Prokaryotic microvesicles Ortholog of eukaryotic extracellular vesicles in biomedical fields", Cell Communication and Signaling, 22(1): 80, 2024.
- Aliya Zhylykybekova, Gulbakit K Koshmaganbetova, Myltykbay S Rysmakhanov, Nurgul Abdullayevna Abenova, Nadiar Maratovich Mussin, Asset Askerovich Kaliyev, **Mahdi Mahdipour**, Amin Tamadon, "Engineering of ovarian tissue for ovarian dysfunctions: A review", Asian Pacific Journal of Reproduction, 13(1):p 3-11, 2024.
- Zahra Khodabandeh, Bahia Namavar Jahromi, Atefe Hashemi, Kamran Hessami, Iman Jamhiri, Shahrokh Zare, Parmis Badr, Ida Iraj, Tahere Poordast, Neda Baghban, Arezoo Khoradmehr, Nadiar Maratovich Mussin, Asset Askerovich Kaliyev, Yربولat Maratovich Iztleuov, Reza Shirazi, **Mahdi Mahdipour**, Shabnam Bakhshalizadeh, Farhad Rahmanifar, Nazanin Jafari, Nader Tanideh, Amin Tamadon, "Ceratonias siliqua L. pod effects on the viability gene expression of endometrial mesenchymal stromal/stem cells isolated from women with endometriosis-associated infertility", International Journal of Fertility and Sterility, doi: 10.22074/ijfs.2023.2007228.1496, 2023.
- Halimeh Mobarak, Reza Rahbarghazi, **Mahdi Mahdipour**, "Stem Cell-and Stem Cell-Free-Based Therapies: Pros and Cons", West Kazakhstan Medical Journal, 2023, 88–94.
- Rano Zhankina, Ulanbek Zhanbyrbekuly, Manarbek Askarov, Afshin Zare, Nazanin Jafari, Dana Saipiyeva, Ravil Sherkhanov, Daniyar Akhmetov, Alireza Hashemi, Mojtaba Farjam, Nader Tanideh, Behrouz Aflatoonian, Nadiar Maratovich Mussin, Asset Askerovich Kaliyev, Yerlan Sultangereyev, Hanieh Baneshi, Reza Shirazi, **Mahdi Mahdipour**, Shabnam Bakhshalizadeh, Farhad Rahmanifar, Amin Tamadon, "Improving Fertility in Non-obstructive Azoospermia: Results from an Autologous Bone Marrow-Derived Mesenchymal Stromal/Stem Cell Phase I Clinical Trial", International Journal of Fertility and Sterility, 10.22074/IJFS.2023.2005045.1480, 2023.
- Maryam Ghahremani-Nasab, Naeimeh Akbari Gharalari, Azizeh Rahmani Del Bakhshayesh, Armita Ghotaslou, Abbas Ebrahimi-Kalan, **Mahdi Mahdipour**, Ahmad Mehdipour, "Synergistic effect of chitosan-alginate composite hydrogel enriched with ascorbic acid and alpha-tocopherol under hypoxic conditions on the behavior of mesenchymal stem cells for wound healing", Stem Cell Research & Therapy, 14(1):326, 2023.
- Melika Izadpanah, Banafsheh Yalameha, Maryam Zamani Sani, Parisa Khani Cheragh, **Mahdi Mahdipour**, Aysa Rezaabakhsh, Reza Rahbarghazi, "Exosomes as Theranostic Agents in Reproduction System", Advanced Biology, 13:2300258, 2023.

- Sepideh Saghati, Çığır Biray Avcı, Ayla Hassani, Sajed Nazifkerdar, Hassan Amini, Solmaz Saghebasl, **Mahdi Mahdipour**, Behnaz Banimohamad-Shotorbani, Atieh Rezaei Namjoo, Fateme Nazary Abrbekoh, Reza Rahbarghazi, Hamid Tayefi Nasrabadi, Ali Baradar Khoshfetrat, "Phenolated alginate hydrogel induced osteogenic properties of mesenchymal stem cells via Wnt signaling pathway", International Journal of Biological Macromolecules, 253: 5,127209. 2023.
- Parvin Hakimi, Fatemeh Tabatabaei, Vahideh Rahmani, Nahideh Afshar Zakariya, Marziyeh Sadat Moslehian, Alberto Miranda Bedate, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, "Dysregulated miRNAs in Recurrent Miscarriage: A Systematic Review", Gene, 884: 147689, 2023.
- Safoura Izanlou, Alireza Afshar, Afshin Zare, Kulyash R Zhilisbayeva, Shabnam Bakhshalizadeh, Zahra Safaei, Soheila Sehat-Bakhsh, Sajed Khaledi, Hamid-Reza Asgari, Somaieh Kazemnejad, Mansoureh Ajami, Monireh Ajami, Masoumeh Dehghan Tarzjani, Vahid Najafzadeh, Mohammad Reza Kouchakian, Nadiar M Mussin, Asset A Kaliyev, Raisa A Aringazina, **Mahdi Mahdipour**, Reza Shirazi, Amin Tamadon, "Enhancing Differentiation of Menstrual Blood-Derived Stem Cells into Female Germ Cells using a Bilayer Amniotic Membrane and Nano-Fibrous Fibroin Scaffold", Tissue and Cell, 85: 102215, 2023.
- Nurgul Ablakimova, Aigul Z Mussina, Gaziza A Smagulova, Svetlana Rachina, Meirambek S Kurmangazin, Aigerim Balapasheva, Dinara Karimoldayeva, Afshin Zare, **Mahdi Mahdipour**, Farhad Rahmanifar, "Microbial Landscape and Antibiotic-Susceptibility Profiles of Microorganisms in Patients with Bacterial Pneumonia: A Comparative Cross-Sectional Study of COVID-19 and Non-COVID-19 Cases in Aktobe, Kazakhstan", Antibiotics, 12(8), 12972023, 2023.
- Nahideh Nazdikbin Yamchi, Shahin Ahmadian, Halimeh mobarak, Farhad Amjadi, Rahim Beheshti, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, "Amniotic fluid-derived exosomes attenuated fibrotic changes in POI rats through modulation of the TGF- $\beta$ /Smads signaling pathway", Journal of Ovarian Research, 16: 118, 2023.
- Nahideh Nazdikbin Yamchi, Farhad Amjadi, Rahim Beheshti, Mehdi Hassanpour, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, "Comparison of angiogenic properties of bone marrow CD144+ endothelial cells and CD146+ mesenchymal stem cells in POF rats", BioImpacts, Accepted, 2023.
- Solmaz Sadi, Balal Khalilzadeh, **Mahdi Mahdipour**, Fatemeh Sokouti Nasimi, Ibrahim Isildak, Soodabeh Davaran, Mohammad-Reza Rashidi, Farhad Bani, "Early stage evaluation of cancer stem cells using platinum nanoparticles/CD133+ enhanced nanobiocomposite", Cancer Nanotechnology, 14 (1): 1-15, 2023.
- Melika Izadpanah, Del Bakhshayesh, Azizeh Rahmani, Zahra Bahroudi, Abbas Majidi Seghinsara, Rahim Beheshti, **Mahdi Mahdipour**, Mahsa Rezaii Zarnaghi, Parisa Hassanpour, Narges Mardi, Reza Rahbarghazi, Ali Abedelahi, "Melatonin and endothelial cell-loaded alginate-fibrin hydrogel promoted angiogenesis in rat cryopreserved/thawed ovaries transplanted to the heterotopic sites", Journal of Biological Engineering, 17 (1): 1-13, 2023.
- Marziyeh Sadat Moslehian, Roya Shabkhizan, Mohammad Reza Asadi, Ahad Bazmani, **Mahdi Mahdipour**, Sanya Haiaty, Reza Rahbarghazi, Ebrahim Sakhinia, "Interaction of lncRNAs with mTOR in colorectal cancer: a systematic review", BMC cancer, 23 (1): 512, 2023.
- Afshin Zare, Safoura Izanloo, Sajed Khaledi, Mussin Nadiar Maratovich, Asset Askerovich Kaliyev, Nurgul Abdullayevna Abenova, Farhad Rahmanifar, **Mahdi Mahdipour**, Shabnam Bakhshalizadeh, Reza Shirazi, Nader Tanideh, Amin Tamadon, "A Bibliometric and In Silico-Based Analysis of Anti-Lung Cancer Compounds from Sea Cucumber", Marine Drugs, 21(5), 283, 2023.
- Afshin Zare, Aria Salehpour, Arezoo Khoradmehr, Shabnam Bakhshalizadeh, Vahid Najafzadeh, Sahar Almasi-Turk, **Mahdi Mahdipour**, Reza Shirazi, Amin Tamadon, "Epigenetic Modification Factors and microRNAs Network Associated with Differentiation of Embryonic Stem Cells and Induced Pluripotent Stem Cells toward Cardiomyocytes: A Review", Life, 13 (2): 569, 2023.
- Jafar Rezaie, Hossein Hosseinpour, Reza Rahbarghazi, Rana Keyhanmanesh, Shokoufeh Khanzadeh, **Mahdi Mahdipour**, Jafar Soleimanpour, Mahdi Ahmad,

- “Type 2 diabetes mellitus stimulated pulmonary vascular inflammation and exosome biogenesis in rats”, Cell Biochemistry and Function, 41 (1): 78-85, 2023.
- Ehsan Dezhakam, Balal Khalilzadeh, **Mahdi Mahdipour**, Ibrahim Isildak, Hadi Yousefi, Mahdi Ahmadi, Abdolhossein Naseri, Reza Rahbarghazi, “Electrochemical biosensors in exosome analysis; a short journey to the present and future trends in early-stage evaluation of cancers”, Biosensors and Bioelectronics, 222: 114980, 2022.
  - Farhad Amjadi, Rahim Beheshti, Fatemeh Sokouti Nasimi, Ayla Hassani, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, “Decellularized bovine ovarian niche restored the function of cumulus and endothelial cells”, BMC Research Notes, 15(1): 1-8, 2022.
  - Nahideh Nazdikbin Yamchi, Mohammad Mojtaba Alizadeh Ashrafi, Hamed Abbasi, Farhad Amjadi, Mohammad Hossein Geranmayeh, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, “Classical music restored fertility status in rat model of premature ovarian failure”, BMC Complementary Medicine and Therapies, 12(1): 1-11, 2022.
  - Halimeh Mobarak, Reza Rahbarghazi, Mohammad Nouri, Mohammad Heidarpour, **Mahdi Mahdipour**, “Intratesticular versus intraperitoneal injection of Busulfan for the induction of azoospermia in a rat model”, BMC Pharmacology and Toxicology, 23(1): 1-9, 2022.
  - Fateme Nazary Ahrbekoh, Nasrin Valizadeh, Ayla Hassani, Hakime Ghale, Soltan Ali Mahboob, Reza Rahbarghazi, Ali Baradar Khoshfetrat, **Mahdi Madipour**, “Combination of polyglycerol sebacate coated with collagen for vascular engineering”, Journal of Cardiovascular & Thoracic Research, 14(3), 172-179, 2022.
  - Farhad Amjadi, Rahim Beheshti, Fatemeh Sokouti Nasimi, Ayla Hassani, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, “Decellularized bovine ovarian niche restored the function of cumulus and endothelial cells”, BMC Research Notes, 15:345, 2022.
  - Nahideh Nazdikbin, Mojtaba Alizadeh Ashrafi, Hamed Abbasi, Farhad Amjadi, Mohammad Hossein Geranmayeh, Reza Shirazi, Amin Tamadon, Reza Rahbarghazi, **Mahdi Mahdipour**, “Classical music restored fertility status in rat model of premature ovarian failure”, BMC Complementary Medicine and Therapies, 22:290, 2022.
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#### **Award and grants:**

- Iranian National-wide grant from Iran National Science Foundation (INSF), Co-Investigator, Project title: Investigating the effects of contamination with pathogenic and non-pathogenic strains of *Toxoplasma gondii* parasite on ovarian tissue in the female rat (4020748). 2023.
- Iranian National-wide grant from Iran National Science Foundation (INSF), Co-Principal Investigator, Project title: The use of exosomes-bound quantum dots for delivery and tracking of methotrexate in MCF-7 cancer cells. (99018647). 2021.
- Iranian National-wide grant from National Institute of Medical Sciences Research (Nimad), Principal Investigator, Project title: Studying the effect of melatonin on autophagic response and exosome biogenesis in human cumulus cells (IR.NIMAD.REC.1400.140). 2021.
- Iranian National-wide grant from National Institute of Medical Sciences Research (Nimad), Co-Investigator, Project title: Development of nanomaterial based immunosensor for detection of exosomes. (4000137). 2021.

- Iranian National-wide grant from National Institute of Medical Sciences Research (Nimad): Project title: Therapeutic effects of amniotic fluid-derived exosomes on experimental model of azoospermia in rat (IR.NIMAD.REC.1397.493). 2018.
- Scholarship from Ministry of Science, Research and Technology of Iran to pursue a PhD program at Utrecht University, The Netherlands (Full fund), 2010.

### **Design and manufacturing under NanoGenTec Co. Ltd.**

- Design and development of mitochondrial isolation kit (**MitoTop**)
- Design and production of DMEM/F12 culture medium

### **Reviewer for journals**

Stem Cell Research and Therapy	Scientific Reports
WIREs Mechanisms of Disease	Life
International Immunopharmacology	Medicina
Clinical and Experimental Obstetrics and Gynecology	Gynecological
Toxicology Mechanisms and Methods	Biology of Reproduction
Regenerative Engineering and Translational Medicine	Endocrinology
Iranian Journal of Science and Technology Transactions	Frontiers in Microbiology
Journal of Visualized Experiments (JOVE)	PLOS ONE
Drug Design, Development and Therapy	Folia Biologica
International Journal of Nanomedicine	BioRxiv
Cancer Management and Research	BioMedicine
International Journal of Women's Health	Bioengineered
Journal of Research in Clinical Medicine	BioMedInformatics
International Journal of Reproductive BioMedicine	Nutrients
Viruses	Vaccines
Applied Sciences	Analytica
International Journal of Molecular Sciences	Microbiology Research
Cancers	Sensors
Journal of Clinical Medicine	Healthcare
Marine Drugs	Metabolites
Diagnostics	Frontiers in Physiology
BMC Medical Genomics	Neuroscience Letters

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- Professor Ali Honaramooz, University of Saskatchewan, Canada

### **Registered Genbank accession numbers:**

- Bos taurus PIWIL3 mRNA (KR911819.1)
- Bos indicus isolate A CD18 (CD18) gene (EU826000.1)
- Bos indicus isolate B CD18 (CD18) gene (EU826001.1)
- Bos indicus isolate A solute carrier family 35 member 3 gene (EU822945.1)
- Bos indicus isolate B solute carrier family 35 member 3 gene (EU822946.1)