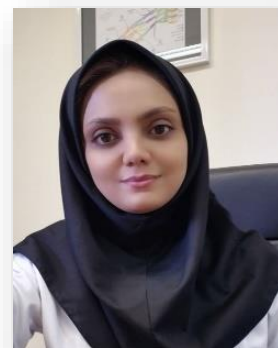


Personal information:

- **First name:** Melika
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- **Nationality:** Iranian
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Educations and Thesis:

- **Doctoral Degree in Anatomical Sciences**

(Tabriz University of Medical Sciences)

Thesis Title: Evaluation the induction effect of fibrin scaffold in addition with endothelial cells and melatonin on the angiogenesis, follicles and embryos quality on vitrified transplanted ovarian tissue

- **Master's in Anatomical Sciences**

(Tehran University of Medical Sciences)

Thesis Title: Studying the effect of curcumin on apoptosis rate, parameters and mitochondrial membrane potential in varicocelized rats

➤ **B.Sc. in Radiology**

(Kashan University of Medical Science)

Scientific Memberships

Member, Iranian Society of Anatomical Sciences (2021 – Present)

Member, Iranian Society of Radiology (2008 – Present)

Publications

- 📖 Review of ovarian tissue cryopreservation techniques for fertility preservation.
- 📖 Zinc and respiratory viral infections: important trace element in anti-viral response and immune regulation.
- 📖 The Effects of Curcumin on Sperm Parameters and Nitric Oxide Production in Varicocelized Rats.
- 📖 Melatonin and endothelial cell-loaded alginate-fibrin hydrogel promoted angiogenesis in rat cryopreserved/thawed ovaries transplanted to the heterotopic sites
- 📖 Novel approaches used in ovarian tissue transplantation for fertility preservation: Focus on tissue engineering approaches and angiogenesis capacity
- 📖 Effects of Ovarian Varicose Vein on Mitochondrial Structure, Malondialdehyde and Prooxidants-Antioxidants Balance in Rat Ovaries.
- 📖 Nrf2 activation: a key mechanism in stem cell exosomes-mediated therapies
- 📖 Mitochondria-loaded alginate-based hydrogel accelerated angiogenesis in a rat model of acute myocardial infarction Exosomes as theranostic agents in reproduction system
- 📖 Applications of engineered exosomes in drugging noncoding RNAs for cancer therapy

- 📖 Protective Effects of the Antioxidant capacity of Curcumin against apoptosis on the expression level of apoptosis-related caspase-3 gene in Varicocelized Rats.
- 📖 Assessment of apoptosis and oxidative stress in cryopreserved ovary after grafting in fibrin-alginate scaffold with endothelial cells and melatonin in wistar rats.
- 📖 Novel Approaches Used for Decreasing Apoptosis Rate in Ovarian Tissue Cryopreservation and Transplantation.
- 📖 Exploring the Role of Curcumin in Supporting Reproductive Health and Infertility-Focus on ROS Scavenging Activity
- 📖 Assessment of Apoptosis-Related Genes in Autografted/Vitrified Ovarian Tissue in Mice.
- 📖 Unraveling the Regulatory Function of MicroRNAs in Reproductive System Apoptosis and Their Implications for Infertility.
- 📖 Fibrin encapsulation in addition with melatonin and endothelial cells ameliorated steroidogenesis and GDF-9 and BMP-15 genes expression in rat cryopreserved/thawed ovaries auto-transplanted
- 📖 The possible involvement of miR-34 in cancer treatment
- 📖 Exosomes as theranostic agents in reproduction system
- 📖 A Mini Review on Exosomal Mediators in Endometriosis: From Pathogenesis to Diagnostic and Therapeutic Avenues
- 📖 Exploring the Role of Curcumin in Supporting Reproductive Health and Infertility-Focus on ROS Scavenging Activity

➤ Teaching Experiences

Experienced in teaching **Histology, Embryology, and Anatomy** at:

- ✓ Tabriz University of Medical Sciences
- ✓ Tabriz Medical Azad University

➤ **Articles Presented in Seminars and Congresses**

- ✓ 11th national congress of anatomical sciences 2014
- ✓ 12th national congress of anatomical sciences 2016
- ✓ 14th national congress of anatomical sciences 2024
- ✓ ISERB 2015
- ✓ The Iranian annual congress on progress in tissue engineering and regenerative medicine 2014
- ✓ XXIV International symposium on morphological sciences 2015

➤ **Workshops**

- ✓ Isolation of mesenchymal stem cells from adipose tissue
- ✓ Methods of working with small laboratory animals
- ✓ Real time PCR
- ✓ Electrospinning and its application in medical sciences
- ✓ Network meta-analysis
- ✓ Cell culture
- ✓ Validity and reliability of qualitative studies
- ✓ Construction of acellular scaffolds
- ✓ Anatomy teaching –synergies encapsulated in the 4IR world- hosted by Dr. Shahed, Nalla
- ✓ The nature of research and retractions
- ✓ Preventing and combating intentional abortion and becoming familiar with its laws
- ✓ Meta-analysis and dose-response meta-analysis

➤ **Professional Reviewing**

- ✓ Reviewing for International ISI Journals: more than 10 journals
- ✓ Reviewing for Research Projects: more than 10
- ✓ Reviewing for Student Thesis: more than 20

➤ **Languages**

Persian: National language

English: Excellent proficiency, academically certified

➤ **Computer Skills**

✓ Office & Documentation: Proficient in Microsoft Office Suite (Word, PowerPoint, Excel) for document preparation, presentations, and data management.

✓ Statistical & Graphing Software: Experienced in SPSS and GraphPad Prism for statistical analysis, data visualization, and scientific graphing.

✓ Reference & Research Management: Skilled in using reference management tools such as EndNote, Mendeley, and Zotero for efficient literature organization and citation

✓ Image & Data Processing: Proficient in Adobe Photoshop and image analysis software (e.g., ImageJ).