

## **Marziyeh Ajdary**

PhD by research Cellular and Molecular Research Center University of Medical Sciences

**Date of Birth:** September 21, 1986

**Place of Birth:** Shahrekord, Iran

**Marital status:** single

**Gender:** female

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### **Laboratory Experiences:**

- Cell culture (epithelial omdometer, mesenchymal stem cells, granulosa ovarian cell)
- Electrophoresis (Agarose Gel Electrophoresis & PAGE )
- Spermatogenesis
- PCR
- Real time PCR gene. Micro RNA
- IVF animal
- IVM animal
- Vasectomy
- Smear mice/rat
- Embryo transfer
- Biochemistry test
- Electrochemiluminescence
- Synthesis nanoparticle
- toxicology

design primer

drug delivery

### **Research interests**

toxicology

reproductive

nanobiotechnology (drug delivery)

### **Software Skills**

SPSS

Prism

Primer design

PCR array analysis

Microarray analysis

### **Language skills**

Persian (Native); English (Fluent)

### **Workshop**

- Workshop on research methods and essay writing
- Molecular PCR workshop
- Systematic review
- Principles of cell culture Flow cytometry
- Genome extraction, PCR and gel electrophoresis
- IVF animal
- IVM animal
- Freeze sperm and oocyte
- Q-Rex

- Design Primer
- Survival analysis
- Immunohistochemistry

### **Congress**

- 5<sup>th</sup> international congress on nanoscience and nanotechnology, tarbiat modares university, Tehran, Iran, 22-24 October, 2014
- 2<sup>th</sup> international congress on reproduction, 2016
- 12<sup>th</sup> Royan international congress on stem cell biology & technology, 2016, august 31-september 2
- First Cancer Stem Cell Symposium; 2016, 14 February
- 18<sup>th</sup> national and 6<sup>th</sup> international congress of biology in Iran, 2014,26-29 august
- International conference and exhibition on nanotechnology & nanomedicine, 2012, march. Omaha Marriott, USA
- 13<sup>th</sup> national congress of anatomical sciences. 17-19 oct 2018
- 24<sup>th</sup> Iranian & 3<sup>th</sup> international congress of physiology and pharmacology, Shahed University, Tehran, Iran, 30 oct-01 Nov 2019.
- ESHRE 36<sup>th</sup> Annual Meeting is taking place online from 5 to 8 July 2020

### **AWARD**

First Award Winner of 8<sup>th</sup> Yazd international congress and student award in reproductive medicine and 3<sup>th</sup> congress of reproductive genetics. April 19-21, 2019.

## Publications

1. Mosleh H, Moradi F, Mehdizadeh M, Ajdary M, Moeinzadeh A, Shabani R. Health concerns regarding the effect of the COVID-19 pandemic on male fertility Alternative title (right-running-head): COVID-19 pandemic on male fertility. 2021.
2. Ajdary M, Keyhanfar F, Moosavi MA, Shabani R, Mehdizadeh M, Varma RS. Potential toxicity of nanoparticles on the reproductive system animal models: A Review. *Journal of Reproductive Immunology*. 2021:103384.
3. Ajdary M, Farzan S, Razavi Y, Arabdolatabadi A, Haghparast A. Effects of morphine on serum reproductive hormone levels and the expression of genes involved in fertility-related pathways in male rats. *Iranian Journal of Pharmaceutical Research*. 2021;20(1):153-64.
4. Ajdary M, Eghbali S, Pirhajati Mahabadi V, Keyhanfar F, Varma RS. Toxicity of silver nanoparticles on Endometrial Receptivity in Female Mice. *Canadian Journal of Physiology and Pharmacology*. 2021(ja).
5. Ajdary M, Ashrafi M, Aflatoonian R, Mehdizadeh M. The role of sperm in inducing genomic changes in the implantation: An experimental study. *Andrologia*. 2021:e14077.
6. Shafiei I, Ajdary M, Haghparast A, Mashhadiabbas F, Haghparast A. The Effect of Zinc and Vitamin D Nutrition on Reducing Morphine Side Effects and Development of Dental Anomalies in Rats Newborns. *Basic and Clinical Neuroscience*. 2020;11(4):403-12.
7. Sadinpour A, Seyedi ZS, Arabdolatabadi A, Razavi Y, Ajdary M. The synergistic effect of *Paeonia* spp and *Glycyrrhiza glabra* on polycystic ovary induced in mice. *Pakistan Journal of Pharmaceutical Sciences*. 2020;33(4).
8. Ajdary M, Zandieh Z, Amjadi FS, Keyhanfar F, Mehdizadeh M, Aflatoonian R. Interaction of sperm with endometrium can regulate genes involved in endometrial receptivity pathway in mice: An experimental study. *International Journal of Reproductive BioMedicine*. 2020;18(10):815.
9. Ajdary M, Keyhanfar F, Aflatoonian R, Amani A, Amjadi F, Zandieh Z, et al. Design and evaluation of a novel nanodrug delivery system for reducing the side effects of clomiphene citrate on endometrium. *DARU Journal of Pharmaceutical Sciences*. 2020.
10. Sanadgol N, Golab F, Askari H, Moradi F, Ajdary M, Mehdizadeh M. Alpha-lipoic acid mitigates toxic-induced demyelination in the corpus callosum by lessening of oxidative stress and stimulation of polydendrocytes proliferation. *Metabolic brain disease*. 2018;33(1):27-37.
11. Ajdary M, Moosavi MA, Rahmati M, Falahati M, Mahboubi M, Mandegary A, et al. Health Concerns of Various Nanoparticles: A Review of Their in Vitro and in Vivo Toxicity. *Nanomaterials (Basel, Switzerland)*. 2018;8(9).
12. Rezaei-Zarchi S, Mirzaei L, Ghobadzadeh S, Negahdary M, Mazaheri G, Ajdary M, et al. Design a biosensor for measuring H<sub>2</sub>O<sub>2</sub> using modi-fied carbon paste electrode with Single-wall Carbon Nanotubes and Catalase. 2015.
13. Negahdary M, Chelongar R, Zadeh SK, Ajdary M. The antioxidant effects of silver, gold, and zinc oxide nanoparticles on male mice in in vivo condition. *Advanced biomedical research*. 2015;4.
14. Negahdary M, Bezghi M, Ajdary M. Effects of Silymarin on Oxidative Stress Markers in Rats Treated with Magnesium Oxide Nanoparticles. *Annual Research & Review in Biology*. 2015;5(3):254.

15. Negahdary M, Arefian Z, Dastjerdi HA, Ajdary M. Toxic effects of Mn<sub>2</sub>O<sub>3</sub> nanoparticles on rat testis and sex hormone. *Journal of natural science, biology, and medicine*. 2015;6(2):335.
16. Hajhosseinlo A, Jafari S, Ajdary M. The relationship of GH and LEP gene polymorphisms with fat-tail measurements (fat-tail dimensions) in fat-tailed Makoei breed of Iranian sheep. *Advanced biomedical research*. 2015;4.
17. Behnammorshedi M, Razavipour R, Ajdary M. The toxic effect of nickel nanoparticles on oxidative stress and inflammatory markers. *Biomedical Research*. 2015;26(2).
18. Arefian Z, Pishbin F, Negahdary M, Ajdary M. Potential toxic effects of Zirconia Oxide nanoparticles on liver and kidney factors. *Biomedical Research*. 2015;26(1).
19. Ajdary M, Ghahnavieh MZ, Naghsh N. Sub-chronic toxicity of gold nanoparticles in male mice. *Advanced biomedical research*. 2015;4.
20. Ziaee Ghahnavieh M, Ajdary M, Ziaee Ghahnavieh M, Naghsh N. Effects of intraperitoneal injection of gold nanoparticles in male mice. *Nanomedicine Journal*. 2014;1(3):121-7.
21. Negahdary M, Ajdary M. The toxicity of gold, silver, and zinc oxide nanoparticles on LDH enzyme in male mice. *Annual Research & Review in Biology*. 2014;4(8):1346.
22. Magee DJ. *Orthopedic physical assessment-E-Book*: Elsevier Health Sciences; 2014.
23. Karami A, Behnammorshedi M, Pouri S, Negahdary M, Ajdary M. Single-Walled Carbon Nanotube and Hemoglobin used in a Dopamine Biosensor. *Int J Electrochem Sci*. 2014;9:8367-79.
24. Chelongar R, Hajhosseinlo A, Ajdary M. The effect of Igf-1 and pit-1 genes polymorphisms on fat-tail measurements (fat-tail dimensions) in Makoei sheep. *Advances in Environmental Biology*. 2014:862-8.
25. Ajdari M, Ghahnavieh MZ. Histopathology effects of nickel nanoparticles on lungs, liver, and spleen tissues in male mice. *International Nano Letters*. 2014;4(3):113.
26. Negahdary M, Hajhosseinlo A, Ajdary M. PCR-SSCP variation of IGF1 and PIT1 genes and their association with estimated breeding values of growth traits in Makoei Sheep. *Genetics research international*. 2013;2013.
27. Negahdary M, Asadi A, Mehrtashfar S, Imandar M, Akbari-Dastjerdi H, Salahi F, et al. A biosensor for determination of H<sub>2</sub>O<sub>2</sub> by use of HRP enzyme and modified CPE with ZnO NPs. *International Journal of Electrochemical Science*. 2012;7(6):5185-94.

## Book

[http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL\\_VIEW&id=3668855&pageStatus=0&sortKeyValue1=sortkey\\_title&sortKeyValue2=sortkey\\_author](http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL_VIEW&id=3668855&pageStatus=0&sortKeyValue1=sortkey_title&sortKeyValue2=sortkey_author)

[http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL\\_VIEW&id=3629482&pageStatus=0&sortKeyValue1=sortkey\\_title&sortKeyValue2=sortkey\\_author](http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL_VIEW&id=3629482&pageStatus=0&sortKeyValue1=sortkey_title&sortKeyValue2=sortkey_author)

[http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL\\_VIEW&id=7538721&pageStatus=0&sortKeyValue1=sortkey\\_title&sortKeyValue2=sortkey\\_author](http://opac.nlai.ir/opac-prod/search/briefListSearch.do?command=FULL_VIEW&id=7538721&pageStatus=0&sortKeyValue1=sortkey_title&sortKeyValue2=sortkey_author)

## Patent

Production of Nano oemulsion a slow release drug of clomiphene citrate by oral and injectable

A61K31/138; C07C213/08; A61P 35/00

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