



Marziyeh Ajdary

PhD Biomedical sciences, Iran University of Medical Sciences

Date of Birth: September 21, 1986

Place of Birth: Shahrekord, Iran

Marital status: single

Gender: female

Email: maa.biology92@gmail.com

Phone: +989372849944

Laboratory Experiences:

- ✓ Cell culture (epithelial endometrium, 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
- ✓ ELISA

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

- 5th international congress on nanoscience and nanotechnology, tarbiat modares university, Tehran, Iran, 22-24 October, 2014
- 2th international congress on reproduction, 2016
- 12th Royan international congress on stem cell biology & technology, 2016, august 31-september 2
- First Cancer Stem Cell Symposium; 2016, 14 February
- 18th national and 6th international congress of biology in Iran, 2014, 26-29 august
- International conference and exhibition on nanotechnology & nanomedicine, 2012, march. Omaha Marriott, USA
- 13th national congress of anatomical sciences. 17-19 oct 2018
- 24th Iranian & 3th international congress of physiology and pharmacology, Shahed University, Tehran, Iran, 30 oct-01 Nov 2019.
- ESHRE 36th Annual Meeting is taking place online from 5 to 8 July 2020
- 23th international congress reproductive biomedicine, Tehran, Iran, 7-9 September 2022

AWARD

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

امور اجرایی

کمیته اجرایی هجدهمین کنگره بین المللی بیماری‌های زنان و مامایی ایران

Publications

1. Farzaneh F, Alidadi A, Payandeh A, Ajdary M, Eslahi N, Pahlavanravi A, et al. Study of The Relationship Between 24-hour Urine Protein Excretion Rate and Protein/Creatinine Ratio in Random Urine Specimen of Women with Preeclampsia. Iranian Journal of Kidney Diseases. 2023;17(4).
2. Kazorgah FM, Govahi A, Dadseresht A, Kenari FNP, Ajdary M, Mehdizadeh R, et al. The effect of temperature and storage time on DNA integrity after freeze-drying sperm from individuals with normozoospermia Alternative title (right-running-head): DNA integrity of freeze-dried sperm. 2023.
3. Mehdizadehkashi A, Khodaverdi S, Govahi A, Sarhadi S, Kaveh M, Sadegi K, et al. Does transcutaneous electrical nerve stimulation (TENS) reduce the laparoscopic related shoulder pain? Korean Journal of Obstetrics & Gynecology. 2023.
4. Mirgaloybayat S, Saneei S, Ajdary M, Sarhadi S, Eslahi N, Mousavi FS, et al. Comparative study of ultrasonographic accuracy at 8-16 weeks of gestational age with the Naegele's Revised Rule for delivery history. Journal of Obstetrics, Gynecology and Cancer Research. 2023;8(2):120-4.
5. Salimi S, Sargolzaei N, Robati ZS, Ajdary M, Farzaneh F. Pregnancy rate in two methods of fallopian tube perfusion (FSP) with standard intrauterine insemination (IUI) in infertile patients. The Iranian Journal of Obstetrics, Gynecology and Infertility. 2023;26(4):1-7.
6. Tahermanesh K, Hakimpour S, Govahi A, Rokhgireh S, Mehdizadeh M, Minaeian S, et al. Evaluation of expression of biomarkers of PLAGL1 (ZAC1), microRNA, and their non-coding

RNAs in patients with endometriosis. *Journal of Gynecology Obstetrics and Human Reproduction*. 2023;52(4):102568.

7. اژدری، درخشان، رؤیا، دستجردی و، رخگیره، ثمانه. گزارش یک مورد مدیریت محافظه کارانه موفق آبسه رتروپریتون از

جراحی لاپاراسکوپی. *مجله مطالعات علوم پزشکی*. ۲۰۲۳؛۳۴(۱):۲۱-۴.

8. Tavakoli MA, Soleimani M, Marzban H, Shabani R, Moradi F, Ajdary M, et al. Correction: Autophagic Molecular Alterations in the Mouse Cerebellum Experimental Autoimmune Encephalomyelitis Model Following Treatment with Cannabidiol and Fluoxetine. *Molecular neurobiology*. 2023.

9. Nazari M, Shabani R, Ajdary M, Ashjari M, Shirazi R, Govahi A, et al. Effects of Au@Ag core-shell Nanostructure with alginate coating on male reproductive system in mice. *Toxicology Reports*. 2023.

10. Tahermanesh K, Kashi AM, Ajdary M, Rokhgireh S, Mohseni M, Chaichian S, et al. The effect of diluted ropivacaine in distending fluid on cramping pain after hysteroscopic surgeries: a randomized clinical trial study. *Obstetrics & Gynecology Science*. 2022;65(6):552-9.

11. Mohammadzadeh F, Ajdary M, Mohammadzadeh A, Safdarian L, Amidi F, Sobhani A. Leukemia inhibitory factor's effect on the growth and survival of sheep's follicles of ovarian tissue during vitrification. *Cell and Tissue Banking*. 2022:1-15.

12. Hakimpour S, Jelodar G, Shabani R, Pourheydar B, Ajdary M, Mehdizadeh M. Study of vitamin D3 formulation prepared by phytosolve technique and its effect on CTRP6 gene expression in PCOS model. *Journal of Drug Delivery Science and Technology*. 2022:103489.

13. Gorgich EAC, Kasbiyan H, Shabani R, Mehdizadeh M, Hajiahmadi F, Ajdary M, et al. Smart chlorotoxin-functionalized liposomes for sunitinib targeted delivery into glioblastoma cells. *Journal of Drug Delivery Science and Technology*. 2022;77:103908.

14. Amjadi F, Zandieh Z, Mehdizadeh M, Ajdary M, Aghamajidi A, Raoufi E, et al. Molecular signature of immunological mechanism behind impaired endometrial receptivity in polycystic ovarian syndrome. *Archives of Endocrinology and Metabolism*. 2022(AHEAD).

15. 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.

16. 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.
17. 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.
18. 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).
19. 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.
20. 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.
21. 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).
22. 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.
23. 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.
24. 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.
25. 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).

26. Rezaei-Zarchi S, Mirzaei L, Ghobadzadeh S, Negahdary M, Mazaheri G, Ajdary M, et al. Design a biosensor for measuring H₂O₂ using modi-fied carbon paste electrode with Single-wall Carbon Nanotubes and Catalase. 2015.
27. 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.
28. Negahdary M, Bezhgi 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.
29. Negahdary M, Arefian Z, Dastjerdi HA, Ajdary M. Toxic effects of Mn₂O₃ nanoparticles on rat testis and sex hormone. *Journal of natural science, biology, and medicine*. 2015;6(2):335.
30. 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.
31. Behnammorshedi M, Razavipour R, Ajdary M. The toxic effect of nickel nanoparticles on oxidative stress and inflammatory markers. *Biomedical Research*. 2015;26(2).
32. 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).
33. Ajdary M, Ghahnavieh MZ, Naghsh N. Sub-chronic toxicity of gold nanoparticles in male mice. *Advanced biomedical research*. 2015;4.
34. 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.
35. 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.
36. Magee DJ. *Orthopedic physical assessment-E-Book*: Elsevier Health Sciences; 2014.
37. 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.

38. Chelongar R, Hajhosseinlo A, Ajdary M. The effect of Igf-1 and pit-1 genes polymorphisms on fat-tail measurements (fat-tail dimensions) in Makooei sheep. *Advances in Environmental Biology*. 2014:862-8.
39. 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.
40. 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 Makooei Sheep. *Genetics research international*. 2013;2013.
41. Negahdary M, Asadi A, Mehrtashfar S, Imandar M, Akbari-Dastjerdi H, Salahi F, et al. A biosensor for determination of H₂O₂ 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=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

Patent

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

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

پژوهشگر برتر سال ۱۴۰۱ بیمارستان رسول اکرم (ص) دانشگاه علوم پزشکی ایران

Marziyeh Ajdary