



## روح الله فتحي

دانشيار

محل خدمت: پژوهشگاه علوم سلولي (رويان)



سوابق تحصیلي			
مقطع تحصیلي	سال اخذ مدرک	رشته و گرایش تحصیلي	دانشگاه
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اطلاعات استخدامی				
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### سوابق اجرایی

عضو هیات علمی پژوهشگاه رویان

### جوایز و تقدیر نامه ها

برنده جایزه بین المللی پژوهشگر جوان با عنوان Dayong Gao Young Investigator Award در چهارمین دوره اعطای این جایزه که ژوئیه ۲۰۲۲ در پایتخت کشور ایرلند جنوبی برگزار شد.

### مقالات در نشریات

- Zand, E., Fathi, R., Nasrabadi, M.H., (...), Spears, N., Akbarinejad, V., Maturational gene upregulation and mitochondrial activity enhancement in mouse in vitro matured oocytes and using granulosa cell conditioned medium, Zygote, Zygote
- Najafi Salehi, J., Eimani, H., Shahverdi, A., (...), Taher Mofrad, S.M.J., Tahaei, L.S., Improvement of Mouse Preantral Follicle Survival and Development following Co-Culture with Ovarian Parenchyma Cell Suspension, International Journal of Fertility and Sterility, 2024 4 1
- Pargoo, S.S., Baniasadi, F., Jasemi, V.S.K., (...), Gharanfoli, M., Fathi, R., Effect of Moderate Static Magnetic Fields on Mice Oocyte Vitrification: Calcium-Related Genes Expression, Biopreservation and Biobanking, -, 2024
- Khajedehi, N., Fathi, R., Akbarinejad, V., Gourabi, H., Oocyte Vitrification Reduces its Capability to Repair Sperm DNA Fragmentation and Impairs Embryonic Development, Reproductive Sciences, 2024
- Palay, P., Fathi, D., Saffari, H., (...), Hajiaghalou, S., Fathi, R., Simple bioelectrical microsensor: 5

oocyte quality prediction via membrane electrophysiological characterization, Lab on a Chip, 2024

Zand, E., Rajablou, E., Siadat, S.F., (...), Tahaei, L.A., Fathi, R., Successful 3D culture and transplantation of mouse isolated preantral follicles in hydrogel of bioengineered Wharton's jelly, PLoS ONE, 2023 9 1

Baniasadi, F., Hajiaghalou, S., Shahverdi, A., (...), Pirhajati, V., Fathi, R., Correction: The Beneficial Effects of Static Magnetic Field and Iron Oxide Nanoparticles on the Vitrification of Mature Mice Oocytes (Reproductive Sciences, (2023), 30, 7, (2122-2136), 10.1007/s43032-022-01144-1), Reproductive Sciences, 2023 7 1

Abtahi, N.S., Ghezelayagh, Z., Nemati, I., (...), Silber, S., Fathi, R., CRYOBIOLOGY AND FERTILITY PRESERVATION: A PERSPECTIVE ON PAST, CURRENT AND FUTURE STUDIES, Cryo-Letters, 2023 7 1

Baniasadi, F., Hajiaghalou, S., Shahverdi, A., (...), Pirhajati, V., Fathi, R., The Beneficial Effects of Static Magnetic Field and Iron Oxide Nanoparticles on the Vitrification of Mature Mice Oocytes, Reproductive Sciences, 2023 7 1

Palay, P., Fathi, D., Fathi, R., Oocyte quality evaluation: a review of engineering approaches toward clinical challenges, Biology of Reproduction, 2023 3 13

Saffari, H., Hajiaghalou, S., Hajari, M.A., (...), Fathi, D., Fathi, R., Design and fabrication of aspiration microfluidic channel for oocyte characterization, Talanta, 2023 3 1

Khaleghi, S., Eivazkhani, F., Tavana, S., (...), Nazarian, H., Fathi, R., Follicular reconstruction and neo-oogenesis in xenotransplantation of human ovarian isolated cells derived from chemotherapy-induced POF patients, Journal of Biological Engineering, 2023 12 1

Mirzaeian, L., Eivazkhani, F., Saber, M., (...), Valojerdi, M.R., Fathi, R., In-vivo oogenesis of oogonial and mesenchymal stem cells seeded in transplanted ovarian extracellular matrix, Journal of Ovarian Research, 2023 12 1

Abtahi, N.S., Ebrahimi, B., Ghaffari, F., (...), Yahyaei, A., Faridi, M., Royan Institute First Attempts: Autotransplantation of Vitrified Human Ovarian Tissue in Cancer Patients, Cell Journal, 2023 11 1

Torkzadeh, T., Asadi, Z., Atrabi, M.J., (...), Akbarinejad, V., Fathi, R., Optimisation of hormonal treatment to improve follicular development in one-day-old mice ovaries cultured under in vitro condition, Reproduction, Fertility and Development, 2023 11 1

Haghshenas, M., Tavana, S., Zand, E., Montazeri, L., Fathi, R., Mouse ovarian follicle growth in an amniotic membrane-based hydrogel, Journal of Biomaterials Applications, 2022 9 1

Eivazkhani, F., Ebrahimi, B., Yousefi, B., (...), Fathi, R., Akbarinejad, V., Effects of N-Acetyl-L-Cystein Antioxidant on Ex Vivo Culture of Vitrified Premature Mouse Ovarian Tissue, Biopreservation and Biobanking, 2022 8 1

Eivazkhani, F., Ebrahimi, B., Yousefi, B., (...), Fathi, R., Akbarinejad, V., Effects of N-Acetyl-L-Cystein Antioxidant on Ex Vivo Culture of Vitrified Premature Mouse Ovarian Tissue, Biopreservation and Biobanking, 2022 8 1

Khodadi, M., Atrabi, M.J., Torkzadeh, T., (...), Akbarinejad, V., Fathi, R., High steroid content in conditioned medium of granulosa cells may disrupt primordial follicles formation in in vitro cultured one-day-old murine ovaries, Reproductive Biology, 2022 3 1

Bahrami, Z., Hatamian, N., Talkhabi, M., (...), Mottershead, D.G., Fathi, R., Granulosa Cell Conditioned Medium Enhances The Rate of Mouse Oocyte In Vitro Maturation and Embryo Formation, Cell Journal, 2022 10 1

Khaleghi, S., Fathi, R., Eivazkhani, F., (...), Ebrahimi, B., Nazarian, H., Two-Decade Experience of Royan Institute in Obtaining Mature Oocyte from Cryopreserved Ovarian Tissue: In Vitro and In Vivo Approaches, Reproductive Sciences, 2022

Hezavehei, M., Sharafi, M., Fathi, R., Shahverdi, A., Gilani, M.A.S., Membrane lipid replacement with nano-micelles in human sperm cryopreservation improves post-thaw function and acrosome

.protein integrity, *Reproductive BioMedicine Online*, 2021 8 1

Montazeri, L., Mohajeri, M., Baharvand, H., (...), Ahmadi, F., Mowla, S.J., Two leading .23  
international congresses in Iran in the era of COVID-19: 21st royan international twin congress,  
.4th international and 16th Iranian genetics congress, *BioEssays*, 2021 6 1

Baniasadi, F., Hajiaghalou, S., Shahverdi, A., Pirhajati, V., Fathi, R., Static magnetic field halves .24  
cryoinjuries of vitrified mouse COCs, improves their functions and modulates pluripotency of  
.derived blastocysts, *Theriogenology*, 2021 3 15

Sarabadani, M., Tavana, S., Mirzaeian, L., Fathi, R., Co-culture with peritoneum mesothelial .25  
stem cells supports the in vitro growth of mouse ovarian follicles, *Journal of Biomedical  
Materials Research - Part A*, 2021 12 1

Atrabi, M.J., Alborzi, P., Akbarinejad, V., Fathi, R., Supplementation of granulosa cells .26  
conditioned medium with pyruvate and testosterone could improve early follicular development  
.in cultured 1-day-old mouse ovaries, *Zygote*, 2021 12 1

Faraji, S., Rashki Ghaleno, L., Sharafi, M., (...), Shahverdi, A., Fathi, R., Gene Expression .27  
Alteration of Sperm-Associated Antigens in Human Cryopreserved Sperm, *Biopreservation and  
Biobanking*, 2021 12 1

Faraji, S., Sharafi, M., Shahverdi, A., Fathi, R., Sperm associated antigens: Vigorous influencers .28  
.in life, *Cell Journal*, 2021 10 1

Mehdinia, Z., Ashrafi, M., Fathi, R., Taheri, P., Valojerdi, M.R., Restoration of estrous cycles by .29  
.co-transplantation of mouse ovarian tissue with MSCs, *Cell and Tissue Research*, 2020 9 1

Bahrebar, K., Valojerdi, M.R., Esfandiari, F., (...), Hassani, S. ,& N., Baharvand, H., Human .30  
embryonic stem cell-derived mesenchymal stem cells improved premature ovarian failure, *World  
Journal of Stem Cells*, 2020 8 1

Akbarinejad, V., Fathi, R., Shahverdi, A., (...), Rezagholizadeh, A., Ghaleno, L.R., The .31  
Relationship of Mitochondrial Membrane Potential, Reactive Oxygen Species, Adenosine  
Triphosphate Content, Sperm Plasma Membrane Integrity, and Kinematic Properties in  
.Warmblood Stallions, *Journal of Equine Veterinary Science*, 94:, 2020 11 1

Zolfaghar, M., Mirzaeian, L., Beiki, B., (...), Vernengo, A.J., Fathi, R., Wharton's jelly derived .32  
mesenchymal stem cells differentiate into oocyte like cells in vitro by follicular fluid and cumulus  
.cells conditioned medium, *Heliyon*, 2020 10 1

Alborzi, P., Jafari Atrabi, M., Akbarinejad, V., Khanbabaee, R., Fathi, R., Incorporation of .33  
arginine, glutamine or leucine in culture medium accelerates in vitro activation of primordial  
.follicles in 1-day-old mouse ovary, *Zygote*, 2020 10 1

Rashedi, A.S., De Roo, S.F., Ataman, L.M., (...), Sugishita, Y., Woodruff, T.K., Survey of fertility .34  
preservation options available to patients with cancer around the globe, *Journal of Global  
Oncology*, 2020 1 1

Rashedi, A.S., De Roo, S.F., Ataman, L.M., (...), Sugishita, Y., Woodruff, T.K., Survey of third- .35  
party parenting options associated with fertility preservation available to patients with cancer  
.around the globe, *Journal of Global Oncology*, 2020 1 1

Almohammed, Z.N.H., Moghani , Ghoroghi, F., Ragerdi , Kashani, I., (...), Naji, M., Pasbakhsh, .36  
P., The effect of melatonin on mitochondrial function and autophagy in in vitro matured oocytes  
.of aged mice, *Cell Journal*, 2020

Eivazkhani, F., Abtahi, N.S., Tavana, S., (...), Valojerdi, M.R., Fathi, R., Evaluating two ovarian .37  
.decellularization methods in three species, *Materials Science and Engineering C*, 2019 9 1

Gholami, D., Ghaffari, S.M., Riazi, G., (...), Shahverdi, A., Sharafi, M., Electromagnetic field in .38  
human sperm cryopreservation improves fertilizing potential of thawed sperm through  
.physicochemical modification of water molecules in freezing medium, *PLoS ONE*, 2019 9 1

Gholami, D., Riazi, G., Fathi, R., Sharafi, M., Shahverdi, A., Comparison of polymerization and .39  
structural behavior of microtubules in rat brain and sperm affected by the extremely low-  
.frequency electromagnetic field, *BMC Molecular and Cell Biology*, 2019 8 29

- Atrabi, M.J., Akbarinejad, V., Khanbabaee, R., (...), Valojerdi, M.R., Fathi, R., Formation and .40  
activation induction of primordial follicles using granulosa and cumulus cells conditioned  
.media, *Journal of Cellular Physiology*, 2019 7 1
- Mirzaeian, L., Eftekhari, & Yazdi, P., Esfandiari, F., (...), Moini, A., Fathi, R., 2019-7-1, Stem Cells .41  
.and Development, 2019 4 15
- Nateghi, R., Masouleh, A.A.M., Ahangari, Y.J., Fathi, R., Akhlaghi, A., Dietary Fish Oil and .42  
Vitamin E Reduce Cryoinjuries and Apoptosis in Vitrified Laying Hens' Ovarian  
.Tissue, *Biopreservation and Biobanking*, 2019 4 1
- Nateghi, R., Alizadeh, A., Jafari Ahangari, Y., Fathi, R., Akhlaghi, A., Stimulatory effects of fish .43  
.oil and vitamin E on ovarian function of laying hen, *Italian Journal of Animal Science*, 2019 1 2
- Mirzaeian, L., Eivazkhani, F., Hezavehei, M., (...), Valojerdi, M.R., Fathi, R., Optimizing the cell .44  
seeding protocol to human decellularized ovarian scaffold: Application of dynamic system for  
.bio-engineering, *Cell Journal*, 2019
- Torkashvand, H., Fathi, R., Shahverdi, A., (...), Mozdziak, P.E., Eimani, H., The in vitro effect of .45  
.chick embryo extract on mice pre-antral follicles, *Veterinary Research Forum*, 2019
- Saber, M., Eimani, H., Soleimani Mehranjani, M., (...), Fathi, R., Tavana, S., The effect of .46  
Verapamil on ischaemia/reperfusion injury in mouse ovarian tissue transplantation, *Biomedicine  
.and Pharmacotherapy*, 2018 12 1
- Gholami, D., Ghaffari, S.M., Shahverdi, A., (...), Esmaili, V., Hezavehei, M., Proteomic analysis .47  
and microtubule dynamicity of human sperm in electromagnetic cryopreservation, *Journal of  
.Cellular Biochemistry*, 2018 11 1
- Akbarinejad, V., Fathi, R., Shahverdi, A., (...), Rezagholizadeh, A., Ghaleno, L.R, Activator of .48  
Mitochondrial Aldehyde Dehydrogenase (Alda-1) Could Enhance Quality of Equine Cooled Semen  
by Ameliorating Loss of Mitochondrial Function Over Time, *Journal of Equine Veterinary  
.Science*, 2018 11 1
- Motamed, M., Sadr, Z., Valojerdi, M.R., (...), Taghiabadi, E., Fathi, R., Tissue Engineered Human .49  
Amniotic Membrane Application in Mouse Ovarian Follicular Culture, *Annals of Biomedical  
.Engineering*, 2017 7 1
- Nateghi, R., Alizadeh, A., Jafari Ahangari, Y., Fathi, R., Akhlaghi, A., Ethylene Glycol and .50  
Dimethyl Sulfoxide Combination Reduces Cryoinjuries and Apoptotic Gene Expression in Vitrified  
.Laying Hen Ovary, *Biopreservation and Biobanking*, 2017 12 1
- Zolfaghar, M., Fathi, R., Naji, T., Differentiation of human wharton's jelly mesenchymal stem .51  
cells into oocyte-like cells by follicular fluid, *Journal of Mazandaran University of Medical  
.Sciences*, 2017 11 1
- Fathi, R., Valojerdi, M.R., Ebrahimi, B., (...), Tahaei, L.S., Abtahi, N.S, Fertility preservation in .52  
.cancer patients: In vivo and in vitro options, *Cell Journal*, 2017
- Jasemi, V.S.K., Samadi, F., Eimani, H., (...), Fathi, R., Shahverdi, A, Comparison of .53  
allotransplantation of fresh and vitrified mouse ovaries to the testicular tissue under influence of  
.the static magnetic field, *Cell Journal*, 2017
- Abtahi, N.S., Ebrahimi, B., Fathi, R., (...), Kashi, A.M., Valojerdi, M.R., An introduction to the .54  
.royan human ovarian tissue bank, *International Journal of Fertility and Sterility*, 2016 9 1
- Bazgir, B., Valojerdi, M.R., Rajabi, H., (...), Rahimi, M., Asgari, A., Acute cardiovascular and .55  
hemodynamic responses to low intensity eccentric resistance exercise with blood flow  
.restriction, *Asian Journal of Sports Medicine*, 2016 12 1
- Bazgir, B., Fathi, R., Valojerdi, M.R., Mozdziak, P., Asgari, A., Satellite cells contribution to .56  
.exercise mediated muscle hypertrophy and repair, *Cell Journal*, 2016
- Rajabzadeh, A.R., Eimani, H., Koochesfahani, H.M., Shahvardi, A. ,& H., Fathi, R., Morphological .57  
study of isolated ovarian preantral follicles using fibrin gel plus platelet lysate after  
.subcutaneous transplantation, *Cell Journal*, 2015 3 1
- Tahaei, L.S., Eimani, H., Hajmusa, G., (...), Shahverdi, A., Eftekhari, & Yazdi, P., Follicle .58

development of xenotransplanted sheep ovarian tissue into male and female immunodeficient .Rats,International Journal of Fertility and Sterility,2015 10 1

Fauchier, L., Greenlaw, N., Ferrari, R., (...), Didier, M., Salas, Z.,Use of anticoagulants and .59  
antiplatelet agents in stable outpatients with coronary artery disease and atrial fibrillation.  
.International CLARIFY registry,PLoS ONE,2015

Abtahi, N.S., Eimani, H., Vosough, A., (...), Hayati, N., Nasiri, N.,Effect of therapeutic .60  
ultrasound on folliculogenesis, angiogenesis and apoptosis after heterotopic mouse ovarian  
.transplantation,Ultrasound in Medicine and Biology,2014 7 1

Fatehi, R., Ebrahimi, B., Shahhosseini, M., Farrokhi, A., Fathi, R.,Effect of ovarian tissue .61  
vitrification method on mice preantral follicular development and gene  
.expression,Theriogenology,2014 1 15

Fathi, R., Valojerdi, M.R., Salehnia, M., Ebrahimi, B., Salman Yazdi, R,Ovarian tissue .62  
transplantation: Advantages, disadvantages and upcoming challenges (A review article),Journal  
.of Mazandaran University of Medical Sciences,2014

Fathi, R., Valojerdi, M.R., Salehnia, M.,Effects of different cryoprotectant combinations on .63  
primordial follicle survivability and apoptosis incidence after vitrification of whole rat ovary,Cryo-  
.Letters,2013

Fathi, R., Valojerdi, M.R., Yazdi, P.E., (...), Alipour, H., Hassani, F.,Development of 4-cell mouse .64  
embryos after re-vitrification,Cryobiology,2012 2 1

Fathi, R., Sanjabi, S., Bayat, N.,Synthesis and characterization of NiMn alloy nanowires via .65  
electrodeposition in AAO template,Materials Letters,2012 1 1

Fathi, R., Sanjabi, S.,Electrodeposition of nanostructured Ni(1-x)Mnx alloys films from .66  
chloride bath,Current Applied Physics,2012 1 1

Tahaei, L.S., Eimani, H., Yazdi, P.E., Ebrahimi, B., Fathi, R.,Effects of retinoic acid on .67  
maturation of immature mouse oocytes in the presence and absence of a granulosa cell co-  
.culture system,Journal of Assisted Reproduction and Genetics,,2011 6 1

Fathi, R., Valojerdi, M.R., Eimani, H., (...), Ajdari, Z., Tahaei, L.S.,Sheep ovarian tissue .68  
vitrification by two different dehydration protocols and needle immersing methods,Cryo-  
.Letters,,2011 1 1

Fathi, R., Valojerdi, M.R., Eftekhari ,& Yazdi, P,Effect of laser-assisted hatching and necrotic .69  
blastomere removal on the development of vitrified-warmed four-cell mouse embryos,Journal of  
.Assisted Reproduction and Genetics,2008 7 1

Fathi, R., Rezazadeh Valojerdi, M., Eftekhari Yazdi, P,Investigating the effect of laser assisted .70  
hatching on the development and quality of vitrified-warmed 4-cell stage mouse  
.embryos,Yakhteh,,2008 6 1

Jasemi, V.K., Samadi, F., Eimani, H., (...), Fathi, R., Shahverdi, A,Follicle development in .71  
grafted mouse ovaries after vitrification processes under static magnetic field,Cryo-Letters,(2017  
.5 1