PERSONAL INFORMATION

Hadi Hajarian

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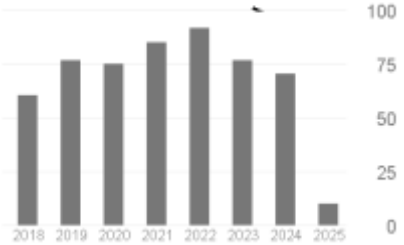
Google Scholar: hadi Hajarian

Married

Date of birth 08/09/1978

• Citations	689
• H-Index	15
• i-10 Index	22



Research Interests

My background and research interest are in fundamental, application, technology, and commercialization in Advance reproduction biotechnologies, such as semen cryopreservation (modification and optimization with varied cryoprotectants, nanoparticles, and biomedicinally active ingredients), in vitro embryo production in sheep and cattle (IVM, IVF, IVC, ICSI), immature and mature oocytes and embryo cryopreservation (modification and optimization with varied cryoprotectants, nanoparticles, and biomedicinally active ingredients), sperm sexing in sheep and cattle (simplification of sexing process using non materials) and its related field of study for different applications which contribute to industry and society.

WORK EXPERIENCE

Dec. 2011-Present

Academic Staff as Associate Professor

Razi University, Kermanshah, Iran
Department of Animal Science, Faculty of Agriculture

Project Topic

- Contribution in a number of research projects
- Preparation of research proposals for fundamental and interdisciplinary grants.
- International collaborations in a number of research projects
- Supervision and mentor of thirty two postgraduate students.
- Supervision of several final year projects at Mechanical Department.
- Lecturer and lab demonstrator for more than 250 undergraduate and postgraduate students.
- Participated in different workshops, conferences and symposiums.
- Published twenty three high-impact articles
- Published twelve conference papers

Courses Taught

- Reproduction physiology of domestic animals
- Reproduction Physiology for post-graduate students
- Biotechnology in Animal Science
- Reproductive Biotechnologies
- Domestic Animal Embryology
- Anatomy and Physiology of Domestic Animals
- Advance Physiology of Domestic Animals

Positions

- Head of Animal Science Department, Faculty of Agriculture, Kermanshah, Iran. Nov 2015-Nov 2017
- Head of business Incubator, Razi University, Kermanshah, Iran. Nov 2017-Nov 2019
- Head of International Office, Razi University, Kermanshah, Iran. Nov 2019-May 2021
- Head of Animal Science Department, Faculty of Agriculture, Kermanshah, Iran. Nov 2021 – continues

Apr. 2020-Oct 2022

Farm Consultant

Consultation to biggest (10.000 head) Sheep breeding and raising farm in Iran

Ajdad Mahidasht complex, Mahidasht, Kermanshah, Iran

Responsibilities

- Managing Reproductive protocols for a rotatory breeding system all year round
- Designed parturition building and boxes
- Designed Sheep breeding shed in Semi-dried region
- Planning Feed Formulation and mixing
- Teaching the principles of Scientific and Correct Animal Husbandry to Employees

Jan 2010-Dec 2010

Associate researcher

Agro-Biotechnology Institute, Serdang, Selangor, Malaysia

Supervisor: Dr. Abbas Mazni Othman

Project Topic: Advanced Reproductive Biotechnology of “Seladang” and “Banting”

Responsibilities

In vitro embryo production lab set up for *Bos Garous* (Seladang wild cattle) hybrid embryos
Cryopreservation of hybrid *Bos Garous* IVF embryos
Cryopreservation of *Bos Garous* Semen
Semen Collection and Sperm evaluation of *Bos Garous samples*

Achievements

Production of hybrid *Bos Garous* (Seladang wild cattle) hybrid embryos for first time in the world
Live birth of hybrid (*Bos Garous* X Bos Tarus) calves for first time in the world

EDUCATION

Dec. 2006 – Apr.2011

PhD, Theriogenology and Cytogenetics

Universiti Putra Malaysia

Thesis Topic
- In vitro viability of vitrified immature bovine oocytes

Details
- Four years program (full-time), undertaken over eight semesters, Medium of instruction in English, in this interdisciplinary research project, I set up in vitro embryo production system and then in four consecutive experiments tried to improve viability of immature bovine oocytes using brilliant cresyl blue (selection of high quality immature oocytes), implementation of several combinations of cryoprotective agents (EG, DMSO, BD) and finally surveying cryo-injuries using transmission electron microscopy.

Outcome
- **Five** research academic papers, **Seven** presentation in conference

Supervisors
- Prof. Dr. Abd Wahid Haron, Prof. Dr. Rosnina Yousof

GPA: 4.00

Sep. 2003- Jan. 2006

Master, Domestic Animal Reproduction Physiology

Razi University, Iran

Thesis Topic
- Study the Effect of PMSG Or hMG In Combination With GnRH Or hCG On Superovulation and Embryo Transfer In Sanjabi Ewes

Details
- Three years program (full-time), undertaken six semesters, in this research project, I implemented different combinations of superovulatory hormones together with ovulating agents to increase the ebryo recovery rate. This project was the **first** superovulation and embryo transfer study in Iran which aimed to bring embryo transfer in Iran’s farm practice.

Outcome
- **One** research academic papers**, One** presentation in conference

Supervisors
- Prof. Dr. Hamed Karami Shabankareh

GPA: 3.76

Oct. 1999 –Feb. 2002

Bachelor, Animal Science

Varamin-Pishva Islamic Azad University, Iran

Details
- Four years program, undertaken over eight semesters,

Outcome
- Achieved full mark of final project. In this project, I studied broilers diet rations in commercial farms to find out wastage and lack of nutrients and propose corrected ratio to increase growth and improve farm income.

Supervisors
- Dr Farhad Foroudi

GPA: 3.67

Oct. 1996 –Sep. 1998

Diploma of Associate Degree in Veterinary Medicine

Garmsar Islamic Azad University, Iran

GPA 3.60

RECEIVED SCHOLARSHIPS

Received Scholarships & Awards

- Scholarship funded by Universiti Putra Malaya for the PhD Program (2006-2011), 20,000.00 Malaysian Ringgit
- Scholarship awarded to attend on International Advanced ICAS Training Course on "Cryopreservation of Human Ovarian Tissue as well as Spermatozoa, Oocytes,Embryos by Conventional (Programmed) Freezing and Vitrification for Oncology and Reproductology". Germany.

Honours

- Best PhD Thesis at Universiti Putra Malaysia, 2011.

PUBLICATIONS

ISI journal papers

Mohammadi A, Sabrivand A, **Hajarian H.** Successful Cryoprotectant - Free Vitrification of Honey Bee (Apis mellifera) Drone Sperm With Royal Jelly Supplemented Extender. Vet Med Sci. 2025, **https://doi.org/10.1002/vms3.70237**

Mohammadi A, Sabrivand A, **Hajarian H.** The effect of different concentrations of royal jelly supplementation on the morphology and apoptosis of drone sperm at different times after Cryoprotectant-Free Vitrification by drop method. J Anim Sci Research. 2025, 10.22034/as.2025.62511.1747

Omidi F, **Hajarian H**, Karamishabankareh H, Soltani L, Dashtizad M. Comparison of the Effect of Adding Different Levels of Zinc Chloride, Curcumin, Zinc Oxide Nanoparticles (Zano-NPs), Curcumin Loaded on Zano-NPs on Post-Thawing Quality of Ram Semen. Vet Med Sci. 2024, 10 (6), e70091. https://doi.org/10.1002/vms3.70091

Rahimi Z, Hajarian H, Karamishabankareh H, Soltani L. Effect of different concentrations of inulin on ram sperm quality during cryopreservation. Cryoletters. 2024, 45 (5), 288-293. https://doi.org/10.54680/fr24510110512

Charkhi W, Hozhabri F, Hajarian H. The use of medicinal plants in the diet of Rpman lactating ewes and its effect on performance and blood parameters of male lambs. J. of Ruminants research. 2024, 12 (2), 133-152.

Salimi, T., Hajarian, H., Karamishabankareh, H. et al. Effects of sodium selenite, cysteamine, bacterially synthesized Se-NPs, and cysteamine loaded on Se-NPs on ram sperm cryopreservation. Sci Rep 14, 852 (2024). https://doi.org/10.1038/s41598-023-50221-1

Charkhi W, Hozhabri F, Hajarian H. Growth performance, hematology and blood biochemical constituents and antioxidant status of Roman lambs fed diets supplemented with mixture of cumin, coriander and peppermint powders- Iranian J. of animal Science 55 (2), 315-337, 2024, 10.22059/ijas.2023.356573.653942

Charkhi W, Hozhabri F, Hajarian H. Incorporation of a mixture of cumin, coriander, and peppermint to the diet of Roman dairy ewes and its effect on performance and blood parameters of suckling lambs. Animal Production J. 2024, 26 (1), 25-33.

Zangishhi N, Hajarian H, Karamishabankareh H, Soltani L. The effect of different concentrations of laminarin on the quality of cryopreserved ram semen. Cryoletters. 2024 45 (1), 60-68. https://doi.org/10.54680/fr24110110812

Moradi M, **Hajarian H**, Karamishabankareh H, Soltani L, Soleymani B. Pre-treatment of ram semen extender with magnetic nanoparticles on freeze-thawed spermatozoa. Vet Med Sci. 2022 Mar;8(2):792-798. doi: 10.1002/vms3.689.

Teymouri F, Foroutanifar S, Abdolmohammadi A, **Hajarian H**. The relationship between mitochondrial *ND5* gene polymorphisms and *in vitro* embryo production in Sanjabi sheep. Zygote. 2021 Sep 30:1-3. doi: 10.1017/S096719942100071X.

Mardani P, Foroutanifar S, Abdolmohammadi A, **Hajarian H**. The *ND1* and *CYTB* genes polymorphisms associated with *in vitro* early embryo development of Sanjabi sheep. Anim Biotechnol. 2021 Dec 20:1-5. doi: 10.1080/10495398.2021.2016431.

Samereh S, **Hajarian H**, karamishabankareh H, Soltani L, Foroutanifar S, Effects of different concentrations of Chir98014 as an activator of Wnt/beta-catenin signaling pathway on oocyte in-vitro maturation and subsequent embryonic development in Sanjabi ewes. Reprod Domest Anim 2021 Jul;56(7):965-971. doi: 10.1111/rda.13938.

Moradi M, **Hajarian H**, KaramiShabankareh H, Soltani L, Soleymani B, Recovery of sperms bearing X-chromosomes with different concentrations of magnetic nano-particles in ram. Reproduction in domestic animals. 2020, https://doi.org/10.1111/rda.13807.

Mahdavinezhad F, Kazemi P, Fathalizadeh P, Sarmadi F, Sotoodeh L, Hashemi E, **Hajarian H,** Dashtizad M. In vitro versus In vivo: Development-, Apoptosis-, and Implantation- Related Gene Expression in Mouse Blastocyst. Iran J Biotechnol. 2019 Jan 11;17(1):e2157. doi: 10.21859/ijb.2157.

Sehati R, Kazemi P, Zandi G, Mahdavinezhad F, Sarmadi F, Fayazi S, **Hajarian H**, Dashtizad M. Different Origin, Different Response: Gene Expression Pattern in Collapsed Vitrified Blastocyst. Reprod Biol. 2019 Jun;19(2):158-164. doi: 10.1016/j.repbio.2019.05.001.

Zabihi A, Shabankareh HK, **Hajarian H**, Foroutanifar S. Resveratrol addition to in vitro maturation and in vitro culture media enhances developmental competence of sheep embryos. Domest Anim Endocrinol. 2019 Jul;68:25-31. doi: 10.1016/j.domaniend.2018.12.010.

Ghasemi M, Farshad A, **Hajarian H**, Banafshi O, Asadollahi V, Fathi F. The effects of sericin on cryopreserved sperm cells and subsequent embryo development in mice. Int J Reprod Biomed (Yazd). 2018 Jun;16(6):405-412

Akhtarshenas B, Karami Shabankareh H**, Hajarian H**, Bucak MN, Abdolmohammadi AR, Dashtizad M. The protease inhibitor antipain has a beneficial synergistic effect with trehalose for ram semen cryopreservation. Reprod Domest Anim. 2018 Dec;53(6):1359-1366. doi: 10.1111/rda.13253.

Bakhtiar R, Abdolmohammadi A, **Hajarian H**, Nikousefat Z, Kalantar-Neyestanaki D. Investigation of the 5' flanking region and exon 3 polymorphisms of IGF-1 gene showed moderate association with semen quality in Sanjabi breed rams. Theriogenology. 2017 Dec;104:186-191. doi: 10.1016/j.theriogenology.2017.08.023

Hajarian H, Aghaz F, Karami Shabankareh H. Replacement of serum with sericin in in vitro maturation and culture media: Effects on embryonic developmental competence of Sanjabi sheep embryo during breeding season. Theriogenology. 2017 Apr 1;92:144-148. doi: 10.1016/j.theriogenology.2016.12.027.

Bakhtiar R, Abdolmohammadi A, **Hajarian H**, Nikousefat Z, Kalantar-Neyestanaki D. Identification of g.170G>A and g.332G>A mutations in exon 3 of leptin gene (Bcnl and Cail) and their association with semen quality and testicular dimensions in Sanjabi rams. Anim Reprod Sci. 2017 Apr;179:49-56. doi: 10.1016/j.anireprosci.2017.01.016

Kazemi P, Dashtizad M, Shamsara M, Mahdavinezhad F, Hashemi E, Fayazi S, **Hajarian H.** Effect of blastocoel fluid reduction before vitrification on gene expression in mouse blastocysts. Mol Reprod Dev. 2016 Aug;83(8):735-42. doi: 10.1002/mrd.22681.

Aghaz F, **Hajarian H**, KaramiShabankareh H. In vitro culture medium (IVC) supplementation with sericin improves developmental competence of ovine zygotes. Reprod Biol. 2016 Mar;16(1):87-90. doi: 10.1016/j.repbio.2015.11.001.

Hajarian H, Shahsavari MH, Karami-shabankareh H, Dashtizad M. The presence of corpus luteum may have a negative impact on in vitro developmental competency of bovine oocytes. Reprod Biol. 2016 Mar;16(1):47-52. doi: 10.1016/j.repbio.2015.12.007.

F. Aghaz, **H. Hajarian,** H.Karami Shabankareh (2016) Enhanced in vitro developmental competence of sheep embryos following sericin supplementation of the in vitro maturation and in vitro culture media. Small Ruminant Research, 136, 257-260.

H. Karami Shabankareh, **H. Hajarian**, M.H. Shahsavari, R. Moradinejad (2015) In vivo and in vitro study of the function of the left and right bovine ovaries. Theriogenology, 84 (5), 724-731.

H. Karami Shabankareh, M. Seidi Ghomsheh, S. M. Mirshamsi, **H. Hajarian** (2015) The effect of ovine, bovine and human umbilical cord blood sera on in vitro maturation of sheep oocytes. Small Ruminant Research, 130, 197-199.

F.Aghaz, **H. Hajarian**, H. Karami Shabankareh, A. Abdolmohammadi, (2013) Effect of sericin supplementation in maturation medium on cumulus cell expansion, oocyte nuclear maturation, and subsequent embryo development in Sanjabi ewes during the breeding season. Theriogenology, 84 (9), 1631-1635.

H. KaramiShabankareh, N. MoradiKor, **H. Hajarian** (2013) The influence of the corpus luteum on metabolites composition of follicular fluid from different sized follicles and their relationship to serum concentrations in dairy cows. Animal Reproduction Science, 140 (4), 109-114.

S.M.Mirshamsi, H. KaramiShabankareh, M. Ahmadi-Hamedani, L. Soltani, **H. Hajarian**, A.R. Abdolmohammadi (2013) Combination of oocyte and zygote selection by brilliant cresyl blue (BCB) test enhanced prediction of developmental potential to the blastocyst in cattle. Animal Reproduction Science, 136 (4), 245-251.

H. Wahid*, M. Thein, E.A. El-Hafez, M.O. Abas, K. MohdAzam, O. Fauziah, Y. Rosnina and **H. Hajarian** (2012) Structural Changes in Cattle Immature Oocytes Subjected to Slow Freezing and Vitrification. Pakistan Veterinary Journal, 32 (2), 188-192.

Dashtizad M., Wahid H., Rosnina Y., Daliri M., **Hajarian H.**, Abas Mazni O. (2010) Synergistic Effect of Insulin on *In Vitro* Development of Immature Bovine Oocytes. American Journal of Animal and Veterinary Science. 5 (4), 258-265.

Dashtizad M., Wahid H., Rosnina Y., Daliri M., **Hajarian H.**, Abas Mazni O. (2010) Ghrelin Improves the Development of Bovine Preimplantation Embryos *in Vitro*. Reproductive Biomedicine Online, Vol 20, suppl 3, S60-S61.

Hajarian H., Wahid H., Rosnina Y., Daliri M., Dashtizad M., Holmes R., Abas Mazni O. (2010) Nuclear Maturation of Immature Bovine Oocytes after Vitrification Using Open Pulled Straw and Cryotop Methods. African J Biotechnology,10(12), 2334-2339.

Hajarian H., Wahid H., Rosnina Y., Daliri M., Dashtizad M. Abas Mazni O. (2010) Effects of Exposure to DMSO in Vitrification Solution on Cytotoxicity and *In Vitro* Viability of Immature Bovine Oocytes. Reproductive Biomedicine Online, Vol 20, suppl 3, S37-S40.

Hajarian, H., Wahid, H., Rosnina, Y., Daliri, M., Dashtizad, M., Karamishabankareh, H., Mazni, O.A. Cryotop and development of vitrified immature bovine oocytes [Cryotop no desenvolvimento de oócitos bovino simaturos vitrificados] (2011) ArquivoBrasileiro de MedicinaVeterinaria e Zootecnia, 63 (1), pp. 67-73.

Hajarian H., Wahid H., Rosnina Y., Daliri M., Dashtizad M., Abas Mazni O. (2010) Selection of Immature Bovine Oocytes using Brilliant Cresyl Blue Enhances Nuclear Maturity after Vitrification. Journal of Animal and Veterinary advances. 9 (21), 2710-2713.

Hajarian H., Wahid H., Abas Mazni O., Rosnina Y., Daliri M., Dashtizad M., Faizah A., Yap K.C., Fahrul F.J. and A. Fazly (2010) Effect of Equilibration Temperature on *In Vitro* Viability and Subsequent Embryo Development of Vitrified-Warmed Immature Bovine Oocytes. American J Animal and Veterinary Science. 5 (2): 71-75.

Moeini, M.M., Moghaddam, A.A., and **Hajarian, H. (2007)** effects of breed and progestin source on estrus synchronization and rates of fertility and fecundity in Iranian Sanjabi and Lori ewes.Pakistan Journal of Biology Science. 10 (21): 3801-3807.

CONTRIBUTION IN RESEARCH

Selected Presentations

Best oral presentation in 31st annual meeting of Malaysian society of animal production (MSAP), 6-8 July, 2010, Kota Bharu, Kelantan, Malaysia.

Best oral presentation in 22nd Veterinary Association Malaysia & 4th Wildlife Society of Zoo and Wildlife Medicine 30thJuly- 1st August, 2010, Kuala Lumpur, Malaysia.

First prize certificate for poster competition at 5th Congress of World Association of Reproductive Medicine (WARM), 10 - 13th October, 2010, Moscow, Russia.

Samereh S. **Hajarian H**, Karamishabankareh H, Soltani L. (2021) The effects of different concentrations of Chir98014 on ovine oocyte in vitro maturation. 9th National and 1st International Animal Sciences Congress of Iran. Sari, Mazandaran, Iran.

Salimi T., Karamishabankareh H, **Hajarian H**, Soltani L. (2021) The effects of different concentrations of selenium nanoparticles on viability of ovine fresh sperm under normal and oxidative stress conditions. 9th National and 1st International Animal Sciences Congress of Iran. Sari, Mazandaran, Iran.

Zangishehei N., **Hajarian H**, Karamishabankareh H, Soltani L. (2021) The effects of different concentrations of Laminarin on viability of ovine fresh sperm under normal and oxidative stress conditions. 9th National and 1st International Animal Sciences Congress of Iran. Sari, Mazandaran, Iran.

Akhtarshenas B., Karamishabankareh H, **Hajarian H**, Numan Bukak M, Abdolmohammadi A (2018) Effect of interactions between different levels of trehalose and straw sizes on the freezing of Sanjabi rams sperm. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

Akhtarshenas B., Karamishabankareh H, **Hajarian H**, Numan Bukak M, Abdolmohammadi A (2018) The effect of interactions between antipain and straw sizes on quality parameters of cryopreserved Sanjabi ram semen. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

Jalili Barazandeh S., Karamishabankareh H, **Hajarian H**, Abdolmohammadi A., Numan Bukak M. (2018) Effect of leptin, straw size and their interaction on Sanjabi ram semen quality after freezing -thawing process. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

Jalili Barazandeh S., Karamishabankareh H, **Hajarian H**, Abdolmohammadi A., Numan Bukak M. (2018) Effect of carnosic acid, straw size and their interaction on Sanjabi ram semen quality after freezing - thawing process. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

Piri M., **Hajarian H**, Karamishabankareh H, Foroutanifar S, Dashtizad M., Numan Bukak M. (2018) Effect of interactions between different levels of Ergothioneine and straw sizes on the freezing of Sanjabi rams sperm. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

Torbati S., **Hajarian H**, Karamishabankareh H, Rahimi Feili P., Dashtizad M., (2018) Effect of different concentrations of arginine and raffinose on lipid peroxidation of sperm membrane in Sanjabi ram. The 8th Congress on Animal Science of Iran. Sanandej, Kurdestan, Iran.

PhD Supervision

- The effect of peppermint, cumin and coriander on ewe milk production and performance of fattening lambs
- Assessment of replacing processed soy seed with canola seed on milk production and reproductive performance of dairy cows

Master Supervision

- Therapeutic strategies involving intrauterine and systemic antimicrobial treatment of the uterus in dairy cows
- Effect of sericin levels (silk glue protein) on rate of in vitro maturation, fertilization and culture of sheep oocytes
- Effect of sericin supplementation during IVM of immature mouse oocytes on their cleavage, early embryonic development and antioxidant levels after vitrification
- The effect of E-64 on the developmental competence of sheep COCs during in vitro maturation
- The effect of E-64 on reducing heat stress shock during in vitro maturation of sheep oocyte
- the effect of resveratrol supplementation on oocyte in vitro maturation and subsequent embryonic development in Sanjabi ewes
- Modifying the ovsynch protocol to include equine chorionic gonadotrophin and human chorionic gonadotrophin to synchronize ovulation in dairy cows
- the effect of stepwise vitrification on mice germinal vesicle and MII oocyte
- Effects of Ergothioneine and Trehalose on the Freezability and Quality of Frozen-Thawed Sanjabi Ram Semen Thesis title:
- Preparation and Characterization of Fe3O4@SiO2 Core-Shell Magnetic Nanoparticles for Controlled release of Progesterone
- effect of Leptin and Carnosic acid on freezability and quality of frozen-thawed Sanjabi ram semen
- Effects of Trehalose and Protease Inhibitor (Antipin) on the Freezability and Quality of Frozen-Thawed Sanjabi Ram Semen
- survey of causes and incidence of abortion in Goaver dairy cattle farm during 1390-1394
- Effects of Arginine and Raffinose on the Viability and Quality parameters of Frozen-Thawed Sanjabi Ram Semen.
- Seasonal variation in post AI serum progesterone levels and pregnancy rates in second parity dairy cows
- Sperm sexing by magnetic nanoparticles in sanjabi ram
- The Analysis of Culling rate and reasons for Culling in Govavar dairy farm in Kermanshah Province
- The effects of different concentrations of Chir98014; as activator of Wnt/beta-catenin signaling pathway; on oocyte in vitro maturation and subsequent embryonic development in Sanjabi ewes
- comparison of the performance and some hematological parameters of stsndard castrated and shotr scrotum castrated lambs using tight rubber rings
- The effect of feeding different levels of supplemental milk to Romans suckling triplet lambs on their pre and post weaning growth performance
- Effects of different concentrations of Inulin on sheep semen after freeze-thaw process
- Comparison of the effect of hydroalcoholic extracts of Echinacea and Clove at different concentrations on sperm quality after the freeze-thawing process in sanjabi breed rams
- Evaluation of the inhibitory effect of copper nano particles and copper nanoparticles coated with chitosan on dominant microbiota in the synchronized ewes using progesterone-impregnated sponge
- Biosynthesis of Selenium nanoparticles by Staphylococcus aureus and Se-nanoparticles loaded with cysteamine and evaluation of their effect on ovine sperm quality after the freeze-thawing process
- Effect of different concentrations of laminarin on ovine sperm quality after the freeze-thawing process
- Evaluation of the effect of various systemic and local antibiotic therapies on the inhibition of vaginal infections caused by the use of progesterone-impregnated sponges to induce estrus synchronization in Ile de France ewes
- The effect of dietary consumption of ferulago angulate (chevir) extract on reproductive and pregnancy characteristics of Kurdish goats in westet gran
- The effect of dietary organic and nano chromium on growth performance in male and female lambs and reproductive characteristics in male Sanjabi lambs

Research Projects

- Transcervical Embryo Transfer in Sanjabi Ewes. Kermanshah, Iran. Project leader: Assist. Prof. Dr. Hamed Karami Shabankareh. **This project was supported by the Razi University (grant number:).**

- Comparison of Different Oestrus Synchronization Protocols in Sanjabi and Lori Ewes. Kermanshah, Iran. Project leader: Assoc. Prof. Dr. Mohammad Mehdi Moeini. **This project was supported by**

the Razi University (grant number:327).

- Advanced Reproductive Biotechnology of "Seladang" and "Banting". Selangor, Malaysia. Project Leader: Dr. Abas Mazni Bin Othman. **This project was supported by the Malaysian Agricultural Research and Development Institute (grant number: 08/05/ABI-ab032).**
- Response to genetical selection of Japanese quail at the age of 4 week. Project leader: Assist. Prof. Dr. Sheyda Varkoohi. **This project was supported by the Razi University (grant number: 1034).**
- Developmental competence of immature bovine oocytes: Effect of follicle size and side of ovary. Project leader: Assist. Prof. Dr. Hadi Hajarian. **This project was supported by the Razi University (grant number:1017).**
- Set up and optimization of mice embryo vitrification technique through blastocoel fluid reduction and low concentrations of cryoprotectant agents. Project leader: Assoc. Prof. Dr. Mojtaba Dashtizad. **This project was supported by the (grant number: IR.NIGEB.EC.1394.8.10.1).**
- Relationship between mitochondrial DNA polymorphism and maturation and fertilization of sheep oocytes in vitro. 2022. Project leader: Assist. Prof. Dr. Saheb Foroutanifar. **This project was supported by the Iran National Science Foundation (INSF) (grant number: 95841263).**

International Collaborations

2006- 2008 Worked on project "Advanced Reproductive Biotechnology of Seladang and Banting". Selangor, Malaysia. Project Leader: Dr. Abas Mazni Bin Othman

2017-2018 Worked on project "Improve Sanjabi ram semen quality after freezing -thawing process" in collaboration with Mustafa Numan Bukak, Selcuk University.

SELECTED INVITATIONS

As Speaker in Conference: Domestic animal embryo cryopreservation challenges. International congress on reproduction. 23-25 May, 2015.

As Journal Editor & Reviewer: Reviewer for: Journal of Animal Production.
Journal of Veterinary medicine and science

ADDITIONAL INFORMATION

Teaching experience

2005-2006
Lectured on Practical Reproduction Physiology of Domestic Animals for undergraduate students at the Faculty of Agriculture, Department of Animal science,Razi University, Iran.

2005-2006
Lectured on Physiology of Domestic Animals for undergraduate students at the Faculty of Animal Science, Jihad Daneshgahi University, Lorestan, Iran.

2003-2006
Demonstrated artificial insemination in cattle, sheep and goats to technicians at the Jihad's Graduate Students Institute.

2011-continues
Lectured on:
- Reproduction physiology of domestic animals, undergraduate students, Razi University
- Reproductive Biotechnologies, undergraduate students, Razi University
- Reproduction Physiology, post-graduate students, Razi University
- Biotechnology in Animal Science, , post-graduate students, Lorestan University

- Domestic Animal Embryology, post-graduate students, Razi University
- Reproduction Behaviour, post-graduate students, Razi University
- Endocrinology of Domestic Animals, post-graduate students, Razi University

PERSONAL SKILLS

Communication skills
- Good communication skills gained through experience as researcher and participant in conferences.

Organisational skills
- Leadership (Responsible for several research teams)
- Supervision (Two ongoing PhD, Three completed PhD, Six Ongoing Master and thirty two completed master)
- Mentorship (Undergraduate and postgraduate projects)
-

Job-related skills
- **Embryology skills (murine)**
- In vitro Oocyte Maturation (IVM)
- In vitro Fertilization (IVF)
- Intra Cytoplasmic Sperm Injection (ICSI)
- Assisted Hatching (AH)
- Cryopreservation of Gametes and Embryo

- **Assissted reproductive biotechnologies (bovine and ovine)**
- In Vitro oocyte Maturation, Fertilization, and Culture
- Gamet and Embryo Manipulation
- Intracytoplasmic Sperm Injection
- Blastomere Biopsy
- Gamete and embryo cryopreservation
- Artificial Insemination and estrus synchronization

Demonstrated skills
- Professional horse rider (25 years)
- Member of professional bee-keepers association at Iran.

References

Professor Dr. Abd Wahid Haron, Universiti Putra Malaysia, Malaysia.
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