

CURRICULUM VITAE (2009)

Family Name: **Hajian Hossein-Abadi**

Given Name: **mehdi**

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EMPLOYMENT

Royan Ins. Isfahan campus, Iran.

Research staff of the Cloning lab (2004-Now)

EDUCATION

- M.S. Animal physiology, Payame Noor University, Isfahan center, Isfahan, Iran. 2004-2006
- B.S. Zoology, Shahid-Beheshti University, Khoram Abad, Lorestan, Iran. 1999-2003

ACADEMIC BACKGROUND

M.Sc. Thesis:

Effect of different activation methods on bovine oocyte parthenogenic activation, cleavage rate and subsequent embryo development.

PROJECTS & RESEARCHES

- Birth of the first cloned sheep in Iran, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2005)
- Birth of the second cloned sheep in Iran (alive as nick-named Royana), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- Birth of the first interspecies hybrids of wild (*Ovis orientalis isphahanica*) and domestic (*Ovis aries*) sheep and deriving two fertile generations of them in Iran, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- In vitro production of cloned cattle embryo, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2005)
- Establishing the first genome resource bank (GBR) for endangered native species in Iran by somatic cell cryopreservation (SCCC), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2005)
- Establishing of the first gene bank for gamete preservation of endangered species, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- Birth of the first IVF-ET bovine in Iran (alive as nick-named Bovana), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2008)

- In vitro production of zona free cloned transgenic bovine embryo, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2008)
- In vitro production of zona free cloned goat embryo, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2008)
- Birth of the first IVF-ET goat in Iran, Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2009)
- Birth of the first cloned calf in Iran (as nick-named Bonyana), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2009)
- Birth of the second cloned calf in Iran, (as nick-named Tamina), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2009)
- Birth of the first cloned goat in Iran (alive as nick-named Hana), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2009)
- Birth of the first cloned interspecies wild sheep with ovine oocyte and wild sheep somatic cell (*Ovis orientalis isphahanica*) in Iran. Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2009)
- Birth of the first transgenic cloned goat in Iran (alive as nick-named Shefa), Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2010)

COMPUTER SKILLS

- Word, SPSS, Power point, Excel, ...

EDUCATIONAL COURSES

- Participating in workshop for "Mammalian Cell Transfection", Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- Holding workshop in "Bovine in vitro embryo production and transfer" (the first Iranian workshop), Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- Participating in workshop for "Sperm Chromatin Qualitative assay", Department of Embryology, Royan Institute, Isfahan Campus, Isfahan, Iran (2006)
- Holding workshop in "Bovine in vitro embryo production and transfer" (the second Iranian workshop), Royan Institute, Isfahan Campus, Isfahan, Iran (2007)
- Holding workshop in "Zona free nuclear transfer" Royan Institute, Isfahan Campus, Isfahan, Iran (2008)

PUBLICATION

1. Optimized combined electrical-chemical parthenogenetic activation for in vitro matured bovine oocyte. SM.Hosseini, **M.Hajian**, F.Moulavi, AH, Shahverdi and **MH.Nasr-Esfahani**. 2007, [Epub ahead of print]. *Anim Reprod Sci*.
2. Investigation of different glycerol and egg yolk concentration on freezing Bakhtiari ram semen. Forouzanfar M., Fazilati M., Hosseini SM., Moulavi F., **Hajian M.**, Salehi S.A., Rabiei A., Nasr-Esfahani MH. *Journal of Iranian Anatomical Sciences*, 2007; 5: 17-25.

3. Novel Approach of Differential Staining to Detect Necrotic Cells in Preimplantation Embryos. Sayyed Mortaza Hosseini, **Mehdi Hajian**, Vajihe Asgari, Mohsen Forozaifar, Parvaneh Abedi, Mohammad Hossein Nasr Esfahani. *Iranian Journal of Fertility and Sterility*.2007; 1(3): 103-106.
4. Efficiency of Ovine Fibroblast or Cumulus Cells for Somatic Cell Nuclear Transfer in Sheep. Frozanfar M., Nasr Esfahani M.H., Rezazadeh M., Molavi F., Hosseini M., **Hajian M.** *Journal of Iranian Anatomical Sciences*, 2007;5(19): 125-135.
5. Efficient Method for Combined Electrical-ChemicalParthenogenetic Activation of Bovine Oocytes. Nasr-Esfahani M.H., **Hajian M.**, Hosseini S.M., Molavi F.,Forozaifar M., Abedi P., Memar Emamieh M., Pilevarian A.A., Shahverdi A.. *Journal of Iranian Anatomical Sciences*, 2007;4(17): 345-358.
6. Genetic Relationship and the Possibility of Inter Species Breedi Between Domestic Sheep (Ovis Aries) and Wild Sheep (Ovis Orientalis Ispahanica).M.fazilati, S. M. Hosseini, F.Moulavi, **M. Hajian**, M. Forouzanfar, P. Abedi, N.Nasiri, I.Salahshourifar, M. H. Nasr Esfahani. *Yakhteh Medical Journal, Vol 9, No 2, Summer 2007, Pages: 119-128.*
7. Royana : Successful experience in cloning the sheep. MH.Nasr-Esfahani, SM.Hosseini, F.Moulavi, **M.Hajian**, M.Frouzanfar, P.Abedi, M.Meamar, S.Kazemi Ashtiani, MR.Valojerdi, H.Gourabi, AH.Shahverdi, H.Baharvand, A.Vosough Dizaj, H.Imani, P.Eftekhari-Yazdi, R.Radpour and I.Salahshouri. , *Yakhteh Medical Journal, 2008;10(3):193-200.*
8. Effect of donor cell type and gender on the efficiency of in vitro sheep somatic cell cloning. M.Hosseini, F.Moulavi, M.Forouzanfar, **M.Hajian**, P.Abedi, M.Rezazade-Valojerdi, K.Parivar, AH.Shahverdi and MH.Nasr-Esfahani. *Small Ruminant Research 78 (2008) 162–168.*
9. Reproductive potential of domestic Ovis aries for preservation of threatened Ovis orientalis isphahanica: in vitro and in vivo studies. S. M. Hosseini, M. Fazilati, F. Moulavi , M. Forouzanfar , **M. Hajian** , P. Abedi , N. Nasiri , A. K. Kaveh , A. H. Shahverdi , M. R. Hemami, M. H. Nasr-Esfahani.*Eur J Wildl Res.17 November 2008.*
10. The Effect of Vero Cells Co-Culture on In Vitro Maturation of Bovine Immature Oocytes and Further Embryo Development. MH. Nasr-Esfahani, F. Moulavi, SM. Hosseini, **M. Hajian**, A. Shahverdi.. *Yakhteh Medical Journal*, 2008 ;9(4):240-247.
11. Highly Efficient In Vitro Production of Bovine Blastocyst in Cell-Free Sequential Synthetic Oviductal Fluid vs. TCM199 Vero Cell Co-Culture System. S. M. Hosseini, F. Moulavi, **M. Hajian**, P. Abedi, M. Forouzanfar, S. Ostad Hosseini, L. Hosseini, A. Pirestani, H. Ghasemzadeh Nava, P. Tajik, A.H. Shahverdi, M. H. Nasr-Esfahani, *International Journal of Fertility and Sterility Vol 2, No 2, Aug-Sep 2008, : 66-73.*
12. Effect of Demecolicne Treatment on the Developmental Competency of In Vitro Matured Bovine Oocytes. Khoobbakht Z. , **Hajian M.**, Hosseini M., Furozanfar M., Moulavi F.,

Abedi P., Hosseini L., Karami Shabankareh H., Nasr-Esfahani M.H., *Journal of Iranian Anatomical Sciences*, Vol. 6, No. 24, Autumn 2008, Pages: 447-457.

13. Selection of the Most Appropriate Medium for Assessing Motility and DNA Uptake of Bovine Spermatozoa. Sh. Eghbalsaied, K. Ghaedi, SM. Hosseini, S. Tanhaie, M. Forouzanfar, **M. Hajian**, NA. Mozafari, MH. Nasr Esfahani.. *Yakhteh Medical Journal*, 2009;10(4): 266-271.
14. Antioxidant supplementation of culture medium during embryo development and/or after vitrification-warming; which is the most important? S. M. Hosseini , M. Forouzanfar , **M. Hajian** , V. Asgari , P. Abedi ,L. Hosseini , S. Ostadhosseini , F. Moulavi , M. Safahani Langrroodi , H. Sadeghi , H. Bahramian , Sh. Eghbalsaied , Mohammad H. Nasr-Esfahani. *J Assist Reprod Genet*, 18 May 2009.
15. Science and Technology of Farm Animal Transgenesis. S. Eghbalsaied, K. Ghaedi, M. Forouzanfar, **M. Hajian**, S. M. Hosseini, M. H. Nasr Esfahani,. *Yakhteh Medical Journal*, Vol 11, No 2, Summer 2009, Pages: 78-87.
16. Optimized Method for Bovine Blastocyst Vitrification Using a Simple Hand-Made Cryotip. V. Asgari, M. Forouzanfar, S. M. Hosseini, **M. Hajian**, F. Moulavi, P. Abedi, L. Hosseini, H. Sadeghi, H. Bahramian, M. H. Nasr Esfahani. *Yakhteh Medical Journal*, Vol 11, No 2, Summer 2009, Pages: 220-227.
17. In Vitro Comparison of Soybean Lecithin Based-Extender with Commercially Available Extender for Ram Semen Cryopreservation. Mohsen Sharafi, Mohsen Forouzanfar, Sayed Morteza Hosseini, **Mehdi Hajian**, Somaye Ostadhosseini, Laleh Hosseini, Parvaneh Abedi, Nafiseh Nili, Hamid Reza Rahmani, Ahmad reza Javaheri, Mohammad Hossein Nasr Esfahani. *International Journal of Fertility and Sterility* Vol 3, No 3, Nov-Dec 2009, Pages: 149-152.
18. In Vitro Development of Cattle Embryo as Affected by Glucose, Serum and EDTA .Pirestani A., Hossieni SM., Moulavi F., **Hajian M.**, Abedi P., Fourozanfar M., Ostadhossieni S., Hossieni L., Ghasemzadehnava H., Tajik P., Nasr Esfahani M.H., *Journal of Iranian Anatomical Sciences*, Vol 7, Summer 2009, Pages 11- 23.
19. In vitro comparison of egg yolk-based and soybean lecithin-based extenders for cryopreservation of ram semen. M. Forouzanfar, M. Sharafi, S.M. Hosseini, S. Ostadhosseini, **M. Hajian**, L. Hosseini, P. Abedi, N. Nili, H.R. Rahmani, M.H. Nasr-Esfahani. *Theriogenology* 73 (2010) 480–487.
20. Sperm Status and DNA Dose Play Key Roles in Sperm/ICSI-Mediated Gene Transfer in Caprine. FARSHAD SHADANLOO, MOHAMMAD HASAN NAJAFI, SAYED MORTEZA HOSSEINI, **MEHDI HAJIAN**, MOHSEN FOROUZANFAR, KAMRAN GHAEDI, PARVANEH ABEDI, SOMAYE OSTADHOSSEINI, LALEH HOSSEINI, MORAD-PASHA ESKANDARI-NASAB, AND MOHAMMAD HOSSEIN NASR ESFAHANI. *Mol. Reprod. Dev.* 2010.

21. Time dependent effect of post warming interval on microtubule organization, meiotic status, and parthenogenetic activation of vitrified in vitro matured sheep oocytes V. Asgari, S.M. Hosseini, S. Ostadhosseini, **M. Hajian**, M.H. Nasr-Esfahani. *Theriogenology* (2010).

22. Differential Effect of Medium on the Ratio of ICM/TE of Bovine Embryos in a Co-culture System. Mohsen Forouzanfar, Sayyed Mortaza Hosseini, **Mehdi Hajian**, Fariba Molavi, Parvaneh Abedi, Mohammad Hossein Nasr Esfahani. *International Journal of Fertility and Sterility Vol 3, No 4, Feb-Mar 2010, Pages: 171-176.*

23. Effect of Ovarian Cyclic Status on In Vitro Embryo Production in Cattle. Akbar Pirestani, Sayyed Morteza Hosseini, **Mahdi Hajian**, Mohsen Forouzanfar, Fariba Moulavi, Parvaneh Abedi, Hamid Gourabi, Abdolhossein Shahverdi, Ahmad Vosough Taqi Dizaj, Mohammad Hossein Nasr Esfahani. *International Journal of Fertility and Sterility Vol 4, No 4, Jan-Mar 2011, Pages: 172-175.*

24. Developmental Competence and Pluripotency Gene Expression of Cattle Cloned Embryos Derived from Donor Cells Treated with 5-aza-2'-deoxycytidine. Farnoosh Jafarpour, Sayed Morteza Hosseini, **Mahdi Hajian**, Mohsen Forouzanfar, Parvaneh Abedi, Laleh Hosseini, Somaye Ostadhosseini, Soghra Gholami, Mohammad Hossein Nasr Esfahani. *International Journal of Fertility and Sterility Vol 4, No 4, Jan-Mar 2011, Pages: 148-155.*

25. Effect of culture condition and cell-permeable superoxide dismutase on levels of reactive oxygen species (ROS) production in “in vitro” produced sheep embryos. S. Ostad Hosseini, F.Aghae, S.M. Hosseini, **M. Hajian**, M. Forouzanfar, M. Noorbakhshnia, H. Gourabi, A.H. Shahverdi, A. Vosough Taghi Dizaj M.H. Nasr-Esfahani. *Small Ruminant Research Volume 97, Issues 1-3, May 2011, Pages 88-93.*

26. Development of an Optimized Zona-Free Method of Somatic Cell Nuclear Transfer in the Goat. Mohammad H. Nasr-Esfahani, Morteza S. Hosseini, **Mahdi Hajian**, M. Forouzanfar, S. Ostadhosseini, P. Abedi, Y. Khazaie, K. Dormiani, K. Ghaedi, M. Forouzanfar, H. Gourabi, A. H. Shahverdi, A. D. Vosough, H. Vojgani. *CELLULAR REPROGRAMMING Volume 13, Number 00, 2011.*

27. “Conservation cloning” of vulnerable Esfahan mouflon (*Ovis orientalis isphahanica*): in vitro and in vivo studies. **M. Hajian**, S.M. Hosseini, M. Forouzanfar, P. Abedi, S. Ostadhosseini, L. Hosseini, F. Moulavi, H. Gourabi, A. H. Shahverdi, A. Vosough Taghi Dizaj, S. A. Kalantari, Z. Fotouhi, R. Iranpour, H. Mahyar, A. Amir-Yekta, M. H. Nasr-Esfahani. *Eur J Wildl Res, 28 January 2011.*

28. Effect of Culture System on Developmental Competence, Cryosurvival and DNA-Fragmentation of In Vitro Bovine Blastocysts. **Mahdi Hajian**, Seyed Morteza Hosseini, Vajiheh Asgari, Somayeh Ostadhosseini, Mohsen Forouzanfar, Mohammad Hossein Nasr Esfahani. *International Journal of Fertility and Sterility Vol 5, No 1, Apr-Jun 2011, Pages: 21-26.*

29. Improved in vitro development of cloned bovine embryos using S- adenosylhomocysteine, a non-toxic epigenetic modifying reagent. Jafari S, Hosseini MS, **Hajian M**, Forouzanfar M, Jafarpour F, Abedi P, Ostadhosseini S, Abbasi H, Gourabi H, Shahverdi AH, Dizaj AV, Anjomshoaa M, Haron W, Noorshariza N, Yakub H, Nasr-Esfahani MH. *Mol Reprod Dev.* 2011 Jun 2.