

CURRICULUM VITAE (2009)

Family Name: **Forouzanfar**

Given Name: **Mohsen**

Date of Birth: 1971

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EMPLOYMENT

Islamic Azad University Marvdasht Branch (2003- Now)

Royan Ins. Isfahan campus, Iran. Research staff of the Cloning lab (2004-Now)

EDUCATION

Ph.D. Animal Cell – embryology. Islamic Azad University, Science and Research Branch, Tehran, Iran.(2002- 2007)

- M.S. Animal embryology, Tarbiat Moalem University, Tehran, Iran. 2000-2002
- B.S. Zoology, Arak University, Iran.1996-2000

ACADEMIC BACKGROUND

Ph.D Thesis:

Efficiency of ovine fibroblast or cumulus cells for somatic cell nuclear transfer in sheep

M.Sc. Thesis:

Investigation of teratogenic effects of Methoxalen and UV A irradiation on mouse spermatogenesis

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. 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.
2. Novel Approach of Differential Staining to Detect Necrotic Cells in Preimplantation Embryos. Sayyed Mortaza Hosseini, Mehdi Hajian, Vajihe Asgari, Mohsen

Forozanfar, Parvaneh Abedi, Mohammad Hossein Nasr Esfahani. *Iranian Journal of Fertility and Sterility*.2007; 1(3): 103-106.

3. 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.
4. Efficient Method for Combined Electrical-Chemical Parthenogenetic Activation of Bovine Oocytes. Nasr-Esfahani M.H., Hajian M., Hosseini S.M., Molavi F., Forozanfar M., Abedi P., Memar Emamieh M., Pilevarian A.A., Shahverdi A.. *Journal of Iranian Anatomical Sciences*, 2007;4(17): 345-358.
5. Genetic Relationship and the Possibility of Inter Species Breeding Between Domestic Sheep (*Ovis Aries*) and Wild Sheep (*Ovis Orientalis Ispahanica*). M.fazilati, S. M. Hosseini, F.Moulavi, M. Hajian, M. Foruzanfar, P. Abedi, N.Nasiri, I.Salahshourifar, M. H. Nasr Esfahani. *Yakhteh Medical Journal, Vol 9, No 2, Summer 2007, Pages: 119-128*.
6. 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*.
7. Effect of donor cell type and gender on the efficiency of in vitro sheep somatic cell cloning. M.Hosseini, F.Moulavi, M.Foruzanfar, M.Hajian, P.Abedi, M.Rezazade-Valojerdi, K.Parivar, AH.Shahverdi and MH.Nasr-Esfahani. *Small Ruminant Research 78 (2008) 162–168*.
8. 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. Foruzanfar , 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*.
9. 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*.
10. 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. Foruzanfar, 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*.
11. Effect of Demecolinc 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*.
12. 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.

13. 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 Langroodi , H. Sadeghi , H. Bahramian , Sh. Eghbalsaied , Mohammad H. Nasr-Esfahani. *J Assist Reprod Genet*, 18 May 2009.
14. 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.
15. 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.
16. 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.*
17. 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.
18. 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.*
19. 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.
20. 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.*

21. 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.*

22. 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.*

23. 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.*

24. "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. Amiri-Yekta, M. H. Nasr-Esfahani. *Eur J Wildl Res, 28 January 2011.*

25. 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.*

26. 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, Anjomshoa M, Haron W, Noorshariza N, Yakub H, Nasr-Esfahani MH. *Mol Reprod Dev. 2011 Jun 2.*