

# CURRICULUM VITAE



## **IDENTIFICATION:**

**Given name:** Ali

**Family name:** Sarvari

**Date and place of birth:** July 17, 1978 - Tehran

**Marital status:** Married

**Number of Children:** 1

**Nationality:** Islamic Republic of Iran

**Address:** Embryology Department, Reproductive Biotechnology Research Center, Avicenna Research Institute, P. O. Box: 19615/1177, Tehran, Iran.

Tel: +98 21 22423020 - 22404144 (Office)

Fax: +98 21 22432021 - 22404145

E-mail: [sarvari@avicenna.ac.ir](mailto:sarvari@avicenna.ac.ir); [sarvariali@yahoo.com](mailto:sarvariali@yahoo.com)

## **POSITION:**

- **Research Member** of Embryology department, Avicenna Research Institute, ACECR, Tehran, Iran.

## **EDUCATION AND TRAINING:**

**2006** Master of Science (**M.Sc.**) in Animal Physiology, Department of Animal Sciences, Faculty of Agriculture, Razi University, Kermanshah, Iran.

Thesis:

*“The Study of Oestradiol Benzoate and Oxytocin effect on Cervical Dilatation and Corpus Luteum function in Sanjabi Sheep: Application to Transcervical Embryo Transfer”*

**2004** Bachelor of Science (**B.Sc.**) in Animal Sciences, Department of Animal Sciences, Faculty of Agriculture, Gorgan University of Natural Resources and Agricultural sciences (Golestan Uni.), Gorgan, Iran.

**2000** Associated Degree in Veterinary, Faculty of Veterinary Medicine, Ferdowsi University of Mashhad, Mashhad, Iran

#### **MEMBERSHIP:**

1. Iranian Society of Embryology & Reproductive Biology. Scientific member, Tehran, Iran. Since 2012.
2. Iranian Society of Physiology & Pharmacology
3. Agricultural and Natural Resources Engineering Organization of Islamic Republic of Iran

#### **ACADEMIC AWARDS AND ACHIEVEMENTS:**

**2006** Honor graduated student in M.Sc.

#### **LICENSURE & CERTIFICATION:**

1. Participation in "**Project Management**" training course, Avicenna research institute, Tehran, Iran 2012.
2. "**Embryo transfer in mouse**" workshop, Royan Research Institute, Tehran, Iran, 2010.
3. "**Production of Pharmaceutical Proteins from Milk of Transgenic Goat**" workshop, Reproductive Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran, 2010.
4. Seminar on "**Challenges in Assisted Reproductive Treatment**" – Infertility and Insurance. Avicenna Research Institute and Ministry of Welfare and Social Security, Tehran – Iran. 1 Jan 2009.
5. "**End Note**" workshop, Reproductive Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran, 2008.
4. "**Who to referee an article?**" workshop, Avicenna Research Institute, Tehran, Iran, 2008.

5. **"Writing a laboratory note book (Lab. Book)"** workshop, Avicenna Research Institute, Tehran, Iran, 2008.
6. **"Acquaintance and work with laboratory animals"** workshop, Avicenna Research Institute, Tehran, Iran, 2008.
7. Conference of **"Controversies in ART"**. Avicenna Research Institute. 7 Feb, 2008.
8. 14th Congress of Recent advances in fertility and infertility: **"Endometriosis"**, Avicenna Research Institute and Shahid Beheshti University of Medical Sciences. Tehran- Iran. 12-13 Nov 2008.
9. **"Teaching Skills"** courses. Khorasan Razavi Organization of Education, Education Management Torbat - Heydariyeh, 2007.

## **PUBLICATIONS**

### **I. Papers**

1. Farahavar A., Shirazi A., Kohram H. Zareh Shahneh A., **Sarvari A.**, Naderi M.M., Borjian Boroujeni S., and Zhandi M. Culture of Ovine IVM/IVF Zygotes in Isolated Mouse Oviduct: Effect of Basal Medium. *Avicenna J Med Biotech* 2013; 5(2): 133-137.
2. Heidari B., Shirazi A., Akhondi M.M., Hassanpour H., Behzadi B., Naderi M.M., **Sarvari A.**, and Borjian S. Comparison of Proliferative and Multilineage Differentiation Potential of Sheep Mesenchymal Stem Cells Derived from Bone Marrow, Liver, and Adipose Tissue. *Avicenna J Med Biotech* 2013; 5(2): 104-117.
3. **Sarvari A.**, Naderi M.M., Sadeghi M.R., Akhondi M.M. A technique for facile and precise transfer of mouse embryos. *Avicenna J Med Biotech* 2012. (Accepted).
4. Naderi M.M., **Sarvari A.**, Milanifar A., Borjian Boroujeni S., and Akhondi M.M. Regulations and Ethical Considerations in Animal Experiments: International Laws and Islamic Perspectives. *Avicenna J Med Biotech* 2012; 4(3): 114-120.
5. **Ali Sarvari**, Mohammad Mehdi Naderi, Mahnaz Heidari, Amir Hassan Zarnani, Mahmood Jeddi-Tehrani; Mohammad Reza Sadeghi, Mohammad Mehdi Akhondi

(2010): Effect of Environmental Risk Factors on Human Fertility. J Reprod Infertil. 11(4):341, 2010.

## II. Book Translation

*Biology of Growth of Domestic Animal*. By: Colin G. Scanes, Iowa state press (2004);  
Translated by: F. Kafilzade, A. Hozhabri, **A. Sarvari**, H. Hajarian, Razi University Press.

## III. Book Chapter

1. **Ali Sarvari**, Mohammad Mehdi Naderi, Mohammad Reza Sadeghi, Mohammad Mehdi Akhondi. The Effect of Environmental Risk Factors on Male and Female Fertility. Fertility Preservation, P: 55-76, Publisher: ACECR, ISBN: 978-600-5406-09-2, (2010).
2. Naderi M.M, **Sarvari A**, Sadeghi M.R, Akhondi M.M. Cryobiology and fertility preservation. Fertility Preservation, P: 147-159. Publisher: ACECR, ISBN: 978-600-5406-09-2, (2010).

## IV. Abstracts

### A. International Congresses

1. Sadeghnia S, Mobini S, Shirazi A, Hossein G, Naderi MM, Heidari B, Borjian S, **Sarvari A.**, Akhondi M. Comparison of ovarian primordial follicle isolation techniques in animal model. The 19th national congress on infertility and reproduction. Tehran-Iran. 22-24 May 2013.
2. Naderi M.M, Heidari B., Borjian S., **Sarvari A.**, Akhondi M.M., Shirazi A. (2011). Effect of mesenchymal stem cells on in vitro ovine embryo development in co-culture system. 9th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2011.
3. Heidari B., Naderi M.M., Borjian S., **Sarvari A.**, Behzadi B., Akhondi M.M., Shirazi A. (2011). Proliferation and multilineage differentiation potential of sheep mesenchymal stem cells derived from different sources. 9th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2011.
4. **Sarvari, A**; Naderi, M.M; Salehkhrou, S; Heidari, M; and Akhondi M.A. (2010). Comparison of birth rate in blastocyst and two cell stage embryo transfer (ET) in NMRI mice. 16th Congress of Iranian Society for Reproductive Medicine. Shiraz, Iran. 3-5 march 2010. (Published in Iranian

journal of Reproductive Medicine (IJRM), Abstract book, supplement 1, winter 2010. (**ISI Proceeding**)

5. Naderi, M.M; **Sarvari, A**; Salehkhoh, S; Heidari, M; and Akhondi M.A.(2010). Comparison between outcomes of two embryo transfer techniques in mice. 16th Congress of Iranian Society for Reproductive Medicine. Shiraz, Iran. 3-5 march 2010. (Published in Iranian journal of Reproductive Medicine (IJRM), Abstract book, supplement 1, winter 2010. (**ISI Proceeding**))
6. **Ali Sarvari**, Naderi M.M, Mohammad Reza Sadeghi, Mohammad Mehdi Akhondi (2010). The Effect of Environmental Risk Factors on Male and Female Fertility. 15th annual Congress of recent advances in fertility and infertility and first national Congress of Fertility Preservation Seminar, Avicenna Research Institute and Shahid Beheshti University of Medical sciences. Tehran- Iran. 13, 14 Jan. 2010.
7. Naderi M.M, **Sarvari A**, Sadeghi M.R, Akhondi M.M. (2010). Cryobiology and fertility preservation. 15th annual Congress of recent advances in fertility and infertility and first national Congress of Fertility Preservation Seminar, Avicenna Research Institute and Shahid Beheshti University of Medical sciences. Tehran- Iran. 13, 14 Jan. 2010.
8. **Ali Sarvari**, Mohammad Mehdi Naderi, Mahnaz Heidari, Sheida Salehkhoh, Mohammad Mehdi Akhondi (2009). Comparison of two superovulation protocols in NMRI mice and study of its effect on number of earned oocytes from flashing. 8th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2009.
9. Mohammad Mehdi Naderi, **Ali Sarvari**, Mahnaz Heidari, Sheida Salehkhoh, Mohammad Mehdi Akhondi (2009). Comparison between two techniques of one cell stage transfer to the oviduct of NMRI mice and evaluation of pregnancy of each. 8th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2009.
10. Mohammad Mehdi Naderi, **Ali Sarvari**, Leila Eini, Mahnaz Heidari, Mohammad Mehdi Akhondi (2009). A case report of teratogenesis consequent of embryo transfer in NMRI mouse. 8th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2009.
11. Mohammad Mehdi Naderi, **Ali Sarvari**, Mohammad Mehdi Akhondi (2009). Evaluation of protective role of herbal medicine silymarin in pregnancy and lactation period. 8th International Congress on Obstetrics and Gynecology. Tehran – Iran. 5-9 Nov, 2009.
12. Karami Shabankareh, H., **A. Sarvari** and H. Hadjariyan (2006). Oestradiol benzoate-oxytocin doesn't alter progesterone concentration in sheep: Application to transcervical embryo transfer. 57th Annual Meeting of the European Association for Animal Production (EAAP). Antalya – Turkey. 17-20 Sep. 2006.

## **B. National Congresses**

1. **Sarvari A**, Naderi M M, Heidari B, Borjian S, Behzadi B, Akhondi M M, Shirazi A. (2010). Ethical Issues in Human Enhancement technologies. Genetics, Law, Ethics, and Psychology Congress. Faculty of Law, Shahid Beheshti Univ. Tehran- Iran. 10-11 Nov, 2010
2. Borjian S, Heidari B, **Sarvari A**, Naderi M M, Behzadi B, Akhondi M M, Shirazi A. (2010). Ethical considerations of tissue engineering. Genetics, Law, Ethics, and Psychology Congress. Faculty of Law, Shahid Beheshti Univ. Tehran- Iran. 10-11 Nov, 2010
3. Naderi M M, Heidari B, **Sarvari A**, Borjian S, Behzadi B, Shirazi A. Akhondi M M, (2010). Transgenesis and ethical issues. Genetics, Law, Ethics, and Psychology Congress. Faculty of Law, Shahid Beheshti Univ. Tehran- Iran. 10-11 Nov, 2010
4. Heidari B, Naderi M M, Borjian S, **Sarvari A**, Behzadi B, Akhondi M M, Shirazi A. (2010). Human cloning and its consequences. Genetics, Law, Ethics, and Psychology Congress. Faculty of Law, Shahid Beheshti Univ. Tehran- Iran. 10-11 Nov, 2010.

## **RESEARCH PROJECTS**

1. **Production of transferrable ovine embryo by in vitro embryo production techniques (as a joint project between Biotechnology Research Center, Avicenna Research Institute and Department of Animal Science, Faculty of Agricultural Science & Engineering, College of Agriculture & Natural Resources, Tehran university) 2012.**
2. **Three-dimensional culture of primordial follicles isolated from cryopreserved human cortical ovarian tissue with the aim of fertility preservation in cancer patients.** Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran. Since 2012.
3. **Epigenetic modifications and quantitative and qualitative alterations of transcripts involved in development of embryos derived from vitrified-warmed ovine oocytes.** Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran. Since 2011.
4. **Quality improvement of embryos derived from ovine vitrified-warmed oocytes.** Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran. Since 2011.
5. **Production of knockout mouse with targeted deletion of Rag1 and Rag2 genes (Ongoing project)**
6. **Isolation, purification and long term culture of goat spermatogonial stem cells.** Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran. Since 2011.
7. **Production of transgenic goat expressing human antithrombin-III in the milk.** Biotechnology Research Center, Avicenna Research Institute, Tehran, Iran. Since 2010.
8. **Sheep oocytes freezing (ongoing project)**

9. **In vitro Production embryo and embryo transfer in Sanjabi sheep.** 2006 (terminated. MID my M.Sc. Thesis).

## **EDUCATION AND RESEARCH EXPERIENCES**

### **I. Teaching Experiences:**

1. Advanced techniques in reproduction, PhD students of Tehran university, 2nd semester **2013**.
2. Advanced techniques in reproduction, PhD students of Tehran university of medical sciences, 2nd semester **2012**.
3. Lecturer: Biochemistry, Physiology, Biology, Embryology. Nursing Midwifery Faculty and Payame Noor University of Torbat- Heydariyeh (**2006 -2007**).

### **II. Work Experiences & Laboratory Activities:**

1. TUNEL assay and ICC for ovine and bovine embryo quality assessment (**2013**).
2. Embryo freezing (Sheep and Cattle) (**2012-2013**).
3. Sperm and oocytes freezing (Sheep and Cattle) (**2010 - 2011**).
4. Doing IVP, Cell culture, Microinjection, Oestrus synchronization, Embryo transfer, Microsurgery (Includes: Tissue transplant, Vasectomy, Orchidectomy, Ovariectomy, Ovariohysterectomy) in mouse, (**2008-2010**).
5. Doing IVP (IVM, IVF, IVC), Cell culture, and related techniques (oocytes and sperm manipulation, ICSI) in bovine and ovine, Fluorescent dye staining (Nuclear, Cortical granules and Mitochondria) (**2005-2010**).
6. Skilful in production of micromanipulation micropipettes with puller, micro grinder, and micro forge sets for gamete and embryo micromanipulation (**2007-2010**).
7. Embryo transfer in Cow and ewe (**2006**).
8. Artificial Insemination (AI) in sheep (**2005**).
9. Farm animal IVF lab set up, in vitro production of Sanjabi sheep embryo, Department of Animal Sciences, Faculty of Agriculture, Razi University, Kermanshah, Iran (**2004-2006**).
10. Production of documentary film in about broiler breeding. Archived in Scientific Society of Animal Science of Department of Animal Sciences, Faculty of Agriculture, Gorgan University of Natural Resources and Agricultural sciences (Golestan Uni.), Gorgan, Iran. (**2005**)
11. Farm animal reproduction and nutrition management (**2004 - 2006**).

12. Health care assistance in farm animals and AI in cow (2001-2002).

### **RESEARCH INTERESTS**

- Transgenic, Cloning and Knockout studies in farm and lab animals (molecular and cellular aspects)
- Stem cell studies
- Gamete and embryo cryobiology