

Curriculum vitae



Personal data

First name: Amir
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Academic education

2012-present: Ph.D. in Genetics, Department of Genetics at Reproductive Biomedicine Research Center, Royan Institute, Tehran-Iran.

Ph.D. thesis title: Genetics and Pathophysiology of male infertility associated with the presence of morphological abnormalities of the flagella .“Genetics of Flagelinfert”

Thesis Advisory committee:

Associated Prof. Dr. Hamid Guorabi, Ph.D. Royan Institute, Tehran-Iran.

Associated Prof. Dr. Pierre F Ray, Ph.D. Grenoble University, Grenoble-France

Prof. Dr. Mohammad Hossein Sanati, Ph.D. National Institute of genetic engineering and biotechnology, Tehran-Iran.

Dr. Marjan Sabbaghian, Ph.D. Royan Institute, Tehran-Iran.

2002-2005: M.Sc. in Biology (Microbiology), (G.P.A: 16.68 out of 20)

M.Sc. thesis title: Expression of Recombinant Human Coagulation Factor VIII in Bacterial Expression System and Develop Specific Antibody against It

Thesis advisor: Dr. Alireza Zomorodipour, Ph.D.

1998-2001: B.Sc. in Cellular and Molecular Biology (Microbiology), (G.P.A: 17.23 out of 20)

Paper Publications

- Shahverdi A., et al. **Fertility and Flow Cytometric Evaluations of Frozen-thawed Rooster Semen in Cryopreservation Medium containing Low Density Lipoprotein.** *Theriogenology.* 2015 Jan 1;83(1):78-85.

- Amiri Yekta A., et al. **Optimization of the electroporation conditions for transfection of human factor IX into the goat fetal fibroblasts.** *Cell J.* 2013; 14(4): 270-275.

- Amiri Yekta A., et al. **Production of Transgenic Goats Expressing Human Coagulation Factor IX In The Mammary Glands after nuclear transfer using transfected fetal fibroblast cells.** *Transgenic Res* (2013) 22:131–142.
 - Hajian M., et al. **“Conservation cloning” of vulnerable Esfahan mouflon (*Ovis orientalis isphahanica*): in vitro and in vivo studies.** *European Journal of Wildlife Research*. 2011. 57(4): 959-69.
 - Amiri Yekta A., et al. **Bacterial expression and purification of C1C2 domains of human factor VIII.** *Iranian Journal of Biotechnology*. 2006. 4(2):104-11.
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Presentations

- Daneshpour A., et al. **Cloning and expression of the codon optimized Fish FSH hormone in *Pichia pastoris*.** 1th international and 9th national biotechnology congress of Islamic republic of Iran, Tehran, May 24-26 2015. **Oral**
- Mohammadi R., et al. **The effect of intron in the gene expression of Human Follicle Stimulating Hormone in Chinese hamster ovary (CHO) cells.** 1th international and 9th national biotechnology congress of Islamic republic of Iran, Tehran, May 24-26 2015. **Poster**
- Moghaddasi N., et al. **Optimization of human Follicle Stimulating Hormone (FSH) gene expression by codon usage adaptation in Chinese hamster ovary (CHO) cells.** 1th international and 9th national biotechnology congress of Islamic republic of Iran, Tehran, May 24-26 2015. **Poster**
- Khoshnue M., et al. **Over expression of Equus Caballus Follicle Stimulating Hormone Subunits in *Pichia Pastoris* by Codon Usage.** 1th international and 9th national biotechnology congress of Islamic republic of Iran, Tehran, May 24-26 2015. **Poster**
- Jazayeri S. H., et al. **Production of Recombinant Human Follicle Stimulating Hormone (rhFSH) in Chinese Hamster Ovary (CHO) Cell Line Using Fusion of the DHFR/MTX and IR/MAR Gene Amplification Methods.** 8th conference of recombinant protein production, Spain-Mallorca, 22-24 April 2015. **Poster**
- Vahabi Z., et al. **Oocytes-secreted factors (OSFs) enhance developmental competence of ovine oocytes.** MEFS 2014. **Oral**
- Sharafi M., et al. **Fertility and Flow Cytometric Evaluations of Frozen-Thawed Rooster Semen in Cryopreservation Medium Containing Low Density Lipoprotein.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**
- Sharafi M., et al. **Sperm Mediated Gene Transfer Using Adjuvant Preserving Fertility for Production of Transgenic Chicken Expressing Enhanced Green Florescent Protein.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Oral**
- Qafary M., et al. **The Effect of Different Fetal Bovine Serum Levels on Recombinant Chinese Hamster Ovary Cells, Expressing Human Follicle Stimulating Hormone.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**
- Soltaninejad M., et al. **Optimization of Ovine FSH Gene Expression in the *Pichiapastoris* System by Regulating the Culture Conditions.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**
- Rahnama M., et al. **Stepwise Reduction of Fetal Bovine Serum Levels in Chinese Hamster Ovary Cells -Expressing Human Chorionic Gonadotrophin-Culture.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**
- Eyni S., et al. **Optimization of Human Luteinizing Hormone Expression in CHO Cells Culture by Stepwise Reduction in Serum Concentration.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**

- Bagheri A., et al. **Effective Parameters on the Bovine Follicle Stimulating Hormone Expression in the *Pichia Pastoris* System.** 15th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 3-5, 2014. **Poster**
- Hadi, F., et al. **Expression of Recombinant Human Luteinizing Hormone (hLH) in CHO Cells.** 14th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 4-6, 2013. **Poster**
- Ghanbari, M., et al. **Production of Recombinant Fish FSH Hormone in *Pichia Pastoris*.** 14th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 4-6, 2013. **Poster**
- Shamaghdari, B., et al. **Gene Expression and Developmental State of Mouse Cloned Embryos after Treatment with Histone Deacetylase Inhibitor, Suberoylanilide Hydroxamic Acid (SAHA).** 14th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 4-6, 2013. **Poster**
- Yazdanikhah, S., et al. **Evaluation of homozygous and heterozygous DPY19L2 deletion in patients with total globozoospermia.** 19th National Congress on Infertility and Reproduction. May 2013. **Oral**
- Khoshbakht, M., et al. **Cloning and expression of recombinant Human follicle stimulating hormone (hFSH) in CHO cells.** 5th Yazd International Congress. 19-21 April 2013. **Poster**
- Hadi, F., et al. **Design of gene construct, carrying Human luteinizing hormone (hLH) subunits.** 2nd National & 1st International MBA-Biotechnology Congress. Tehran University of Medical Sciences. 10-11 Dec. 2012. **Oral**
- Elyasi Gorji, Z., et al. **Cloning of Iranian Thoroughbred horse Follicle Stimulating Hormone in pPIC Vector.** 2nd National & 1st International MBA-Biotechnology Congress. Tehran University of Medical Sciences. 10-11 Dec. 2012. **Oral**
- Shahhosseini, M., et al. **A novel mutation in SEPT12 in an azoospermic infertile man.** Middle East Fertility Society. Dubai, U.A.E. October 3-5, 2012. **Poster**
- Saeeda, S., et al. **Expression of Human Chorionic Gonadotropin (hCG) Hormone Using Chinese Hamster Ovary Cells.** International Journal of Fertility & Sterility (IJFS), Vol 6, Suppl 1, Summer 2012. 13th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 5-7, 2012. **Poster**
- Ahanjan, M., et al. **Cloning and Expression Of Recombinant Ovine FSH Hormone In *Pichia Pastoris*.** International Journal of Fertility & Sterility (IJFS), Vol 6, Suppl 1, Summer 2012. 13th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 5-7, 2012. **Poster**
- Ebrahimi, S., et al. **Expression of Bovine Follicle Stimulating Hormone Subunits in *Pichia Pastoris*.** International Journal of Fertility & Sterility (IJFS), Vol 6, Suppl 1, Summer 2012. 13th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 5-7, 2012. **Poster**
- Elyasi Gorji, Z., et al. **Utilization of *Pichia Pastoris* Secretion System for Expression of Equine Follicle Stimulating Hormone.** International Journal of Fertility & Sterility (IJFS), Vol 6, Suppl 1, Summer 2012. 13th Congress on Reproductive Biomedicine, Royan Institute, Tehran-Iran, September 5-7, 2012. **Poster**
- Shahhosseini, M., et al. **Polymorphism of the sept12 gene may be associated with idiopathic male infertility.** 12th International Congress of Human Genetics, Montreal-Canada, Oct.11-15, 2011. **Poster**
- Amir Amiri Yekta, Azam Dalman, Poopak Eftekhari-Yazdi, Mohammad Hossein Sanati, Hamid Gourabi*. **Production of Transgenic Goats, Carrying Human Coagulation Factor IX cDNA, by Nuclear Transfer of Transfected Fetal Fibroblasts.** IEEE. Page: 149-154, 2011. 2nd International Conference on biotechnology and food science, Bali-Indonesia, April 1-3, 2011. **Oral**
- Gourabi, H., et al. **Recombinant Human Coagulation Factor IX Transgenic Goats Produced by Nuclear Transfer of Transfected Fetal Fibroblast.** 11th Iranian Genetics Congress, Tehran-Iran, May 22-24, 2010. **Oral**

- Amiri Yekta, A., et al. **Optimization of goat fetal fibroblast Transfection using different concentrations of naked DNA.** 9th Transgenic Technology Meeting. Berlin-Germany, March 22 – 24, 2010. **Poster**
 - Vazirinasab, H., et al. **Combined single cell analysis and fluorescent PCR: shortcut to pure marker-free transgenic lines.** 9th Transgenic Technology Meeting. Berlin-Germany, March 22 – 24, 2010. **Poster**
 - Rezapannah, M.; Amiri Yekta, A. and Dezhianian, A. **An investigation on biochemical variation of two isolates of potato tuber moth granulovirus, Phthorimaea operculella granulovirus.** Programme and Abstracts of the 39th Annual meeting of the Society for Invertebrate Pathology, together with 9th International Colloquium on Invertebrate Pathology and Microbial Control and 8th International Conference on Bacillus thuringiensis, Wuhan, China. Aug. 27 – Sep. 1, 2006. 170. **Poster**
 - Amiri Yekta, A., Zomorodipour, A., Khodabandeh, M., Daliri Chopari, M.. **Expression and purification of a bacterially derived sub-fragment of human coagulation factor VIII light-chain.** 11th International Congress of Human Genetics. Brisbane- Australia August 6 - 10 2006. **Poster**
 - Amiri Yekta, A. Amirizadeh, N., Zomorodipour, A. and Ataie, F. **Expression of epitopic domains of human coagulation factor VIII in Escherichia coli.** ECB12 - Bringing Genomes to Life, 12th European Congress on Biotechnology Copenhagen, Denmark 21-24 August 2005. Published in Journal of Biotechnology. **Poster**
 - Amir Amiri Yekta^{1,2}, Alireza Zomorodipour^{*1} and Fariba Ataei. **Bacterial expression of the C1C2 domains of human coagulation factor VIII light-chain.** 4th International congress on biotechnology, Kerman-Iran August 15-17,2005. **Oral**
 - Amiri Yekta, A. Amirizadeh, N., Zomorodipour, A., Ataie, F. **The comparison of expression of light and heavy chains of human coagulation factor VIII in Escherichia coli.** 3rd international conference on Analysis of Microbial cells at single cell level. Semering-Austria May 26 – 29, 2005. **Poster**
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Books

- Sanati M.H., et al. **Molecular Biotechnology: Principles and Applications of Recombinant DNA** (in press), 2015.
 - Sanati M.H., et al. **Encyclopedia of Biotechnology and Genetics**, 2009.
ISBN: 978-964-5515-032
ISBN: 978-964-5515-063
ISBN: 978-964-5515-070
 - Rezaee Tavirani, M., et al. **Textbook of biology**, Farhang publication, Tehran-Iran. 2006.
ISBN: 964-8789-71-1
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Patents

- Production of pichia pastoris cell line secreting Equus caballus follicle stimulating hormone, using new nucleotide variant of the beta chain, 2013.
 - Gene submission at NCBI, EMBL. Equus caballus follicle stimulating hormone beta subunit (Beta-FSH) mRNA, complete cds. **ACCESSION: JX861871.** Dec 8, 2012.
 - Production of DNA extraction training kit from different types of cells with gel electrophoresis package (without any toxic reagents), 2008.
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Honors and Awards

- Production of first transgenic farm animals in Iran with capability of recombinant coagulation factor IX in milk, 2009.
 - Outstanding researcher at Royan Institute, 2008.
 - First rank among B.Sc. graduates of cellular-molecular science-Microbiology, 2001.
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Consulting Advisor:

- **Parvizi Shima.**
Title of Thesis: The effect of human beta-globin intron on expression of hCG hormone in Chinese hamster ovary cells
 - **Mahmood-Aghdam Samaneh.**
Title of Thesis: Study of codon optimization on expression of hCG hormone in Chinese hamster ovary cells
 - **Amirinia Mahsa. (2015)**
Title of Thesis: Purification and Isolation of human recombinant FIX from milk of transgenic goats
 - **Abbasi Pegah.**
Title of Thesis: Cloning and expression of codon optimized gene of human coagulation factor IX in Chinese hamster ovary cells
 - **Qafari Minoo. (2015)**
Title of Thesis: Optimization of recombinant follicle stimulating hormone gene expression in Chinese hamster ovary cells
 - **Eini Samira. (2014)**
Title of Thesis: Optimization of LH gene expression in Chinese hamster ovary cells
 - **Soltani-Nejad Marzieh. (2014)**
Title of Thesis: Optimization of ovine FSH gene expression in Pichia Pastoris
 - **Bagheri Atefeh. (2014)**
Title of Thesis: Optimization of bovine FSH gene expression in Pichia Pastoris
 - **Rahnama Maryam. (2014)**
Title of Thesis: Optimizing the expression of human chorionic gonadotropin (hCG) coding gene, in Chinese hamster ovary cells
 - **Hadi Fatemeh. (2013)**
Title of Thesis: Cloning and Gene Expression of Human Luteinizing Hormone in Chinese Hamster Ovary Cells
 - **Ghanbari Meysam. (2013)**
Title of Thesis: Cloning and Gene Expression of Fish Follicle Stimulating Hormone in Pichia pastoris
 - **Elyasi Zahra. (2012)**
Title of Thesis: Cloning and Gene Expression of Equine Follicle Stimulating Hormone in Pichia Pastoris
 - **Ebrahimi Somayeh. (2012)**
Title of Thesis: Cloning and Gene Expression of Bovine Follicle Stimulating Hormone in Pichia pastoris
 - **Ahanjan Masumeh. (2012)**
Title of Thesis: Cloning and Gene Expression of Ovine Follicle Stimulating Hormone in Pichia pastoris
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Training Courses and Conferences

1. **Training course on Generation of Transgenic mouse**, Royan Institute, Tehran-Iran, Jan 7-8, 2015
2. **Training course on Next Generation Sequencing**, National Institute of genetic engineering and biotechnology, September 23-25, 2014.
3. **Royan International Twin Congress: 15th Congress on Reproductive Biomedicine**, Royan Institute, Tehran-Iran, September 3-5, 2014.
4. **Royan International Twin Congress: 14th Congress on Reproductive Biomedicine**, Royan Institute, Tehran-Iran, September 4-6, 2013.
5. **Royan International Twin Congress: 13th Congress on Reproductive Biomedicine**, Royan Institute, Tehran-Iran, September 5-7, 2012.
6. **Royan International Twin Congress: 12th congress on reproductive biomedicine and 7th congress on stem cell biology and technology**, 7-9 September 2011. Tehran-Iran.
7. **Enucleation and Nuclear transfer of mouse oocytes by Piezo**, Joint to the 12th Royan international twin congress, 4 September 2011. Tehran-Iran.
8. **2nd International Conference on biotechnology and food science**, April 1-3, 2011, Bali-Indonesia.
9. **First Royan flow cytometry and cell sorting workshop**, 27-29 Oct. 2010. Tehran-Iran.
10. **Royan International Twin Congress: 11th congress on reproductive biomedicine and 6th congress on stem cell biology and technology**, 15-17 September 2010. Tehran-Iran.
11. **Royan International Twin Congress: 10th congress on reproductive biomedicine and 5th congress on stem cell biology and technology**, 23-25 September 2009. Tehran-Iran.

12. **Preimplantation genetic diagnosis of single gene disorders (molecular PGD)**, Joint to the 9th Royan international twin congress, 25-26 August 2008. Tehran-Iran.
13. **Royan International Twin Congress: 9th congress on reproductive biomedicine and 4th congress on stem cell biology and technology**, 26-29 August 2008. Tehran-Iran.
14. **Phylogenetics Training Course**, Iranian molecular medicine network, Pasteur institute of Iran, 7-8 February 2008. Tehran-Iran.

Teaching experiences

- Genetic engineering course. Royan Institute for reproductive biomedicine research center, Tehran-Iran, since 2014.
- Biotechnology course. University of Science and Culture, Tehran-Iran, since 2013.
- The 4th Royan international Summer School, August 10-15, 2013. Tehran-Iran.
- Genetic engineering course. University of Science and Culture, Tehran-Iran, since 2012.
- Training course on gene cloning and DNA analysis. Royan Institute, Tehran-Iran, since 2010.
- Training course on introductory techniques in molecular biology. Royan Institute, Tehran-Iran, since 2010.
- Training course on application of molecular biology techniques. Iranian bioresource center (IBRC). 2011-2012.
- Training course on cloning and expression of recombinant proteins in bacterial systems. Iranian bioresource center (IBRC). 2011-2012.
- Training course on application of molecular biology techniques. Iranian Acecr Branch of Olom Pezeshki. 2007-2011.
- Training course on cloning and expression of recombinant proteins in bacterial systems. Iranian Acecr Branch of Olom Pezeshki. 2007-2011.
- Workshop on cloning and expression of recombinant proteins in bacterial systems. Medical university of Kurdistan, MUK-Iran.2005.

Research Projects

No.	Title	Date	Grant
1	Production of Pharmaceutical Recombinant Proteins in Eggs Using Sperm Mediated gene Transfer for Production of Transgenic Hens	2014	Royan Institute, Tehran-Iran Tarbiat Modares university, Tehran-Iran
2	Genetics and Pathophysiology of male infertility associated with the presence of morphological abnormalities of the flagella .“Genetics of Flagelinfert”	2014	Royan Institute, Tehran-Iran Grenoble University, Grenoble-France
3	Study of genotype-phenotype correlation of short-tail sperm in infertile men by whole exome sequencing	2014	Royan Institute, Tehran-Iran Grenoble University, Grenoble-France
4	Genetic variations of DNAH1 gene in infertile men with sperm abnormalities referring to Royan Institute	2014	Royan Institute Tehran-Iran
5	Utilization of self-amplifying and Cre-loxP systems in production of transgenic chicken expressing Human Serum Albumin in egg white	2014	Royan Institute Tehran-Iran
6	Sperm Mediate Gene Transfer in Rooster for in vitro production of Transgenic Chicken, combining effect of lipofection and dimethylsulfoxyde	2012-2014	Royan Institute Tehran-Iran
7	Production of Transgenic Chicken with the Ability of Anti-CD34 Antibody Gene Expression in oviduct	2012	Royan Institute Tehran-Iran
8	Production of Recombinant Human and Animal Fertility Hormones (FSH, LH and hCG)	2011	Royan Institute Tehran-Iran
9	Assessment of The Prolactin Receptor Gene Mutations, in Infertile Patients with Idiopathic Hyperprolactinemia	2010-2012	Royan Institute Tehran-Iran
10	Paternity of Cloned Animals	2008-2011	Royan Institute Tehran-Iran
11	Production of Transgenic Goats, Carrying Human Coagulation Factor IX cDNA, by Nuclear Transfer of Transfected Fetal Fibroblasts (First Transgenic Animals in Iran)	2007- 2011	Royan Institute Tehran-Iran
12	An Investigation on Biochemical Variation of Different Isolates of Cydia Pomonella Granulosis Virus	2005-2007	Plant Pests and Disease Research Institute Tehran-Iran

13	<i>Purification of Recombinant Beta Interferon From Bacterial Culture</i>	2004-2005	<i>National Institute of Genetic Engineering and Biotechnology Tehran-Iran</i>
14	<i>Expression of Recombinant Human Coagulation Factor VIII in Bacterial Expression System and Develop Specific Antibody Against It</i>	2003-2005	<i>National Institute of Genetic Engineering and Biotechnology Tehran-Iran</i>