

## Curriculum Vitae

### ***Personal Information:***

**Name:** HAMID

**Surname:** GOURABI

**Date & Place of birth:** 22.07.1961 – Tehran

**Nationality:** Iran

**Marital Status:** Married, Three Children

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### ***Current position:***

Full professor in Genetics department of Royan Institute (Institute for Reproductive biomedicine and Stem cells biology and technology).

### ***Educations:***

- 1- High school diploma in experimental sciences (1980)
- 2- B.Sc. in Diagnostic Radiology from Iran Medical University Sciences (1985)
- 3- M.Sc. In Radiologic Sciences from Tarbiat Modarres University (1990)
- 4- Ph.D. in Medical Physics (Cytogenetic Radiobiology) from Tarbiat Modarres University (1997)

### ***Thesis:***

- **M.Sc.:** A survey on the amount and reasons of repetition and rejection of radiographs in radiologic departments of Iran.

- **Ph.D.:** Biological dosimetry of individuals exposed to low dose ionizing radiation and study of cytogenetic adaptive response to higher doses.

### ***Researches Interest:***

- Reproductive Genetics.
- Preimplantation Genetic Diagnosis.
- Transgenic animals.
- Radiobiology
- Stem cells.

### ***Executive Responsibilities:***

- Director of education office in medical faculty of Iran medical sciences university. 1987-1988
- Administrative and financial deputy of Iranian Academic Center for Education, Culture & Research (ACECR)- Iran Medical Sciences Branch Since 1991 for ten years.
- Head of board of directors of Health researches and Services Center in ACECR.
- Member of scientific and executive committee of Royan Institute (institute for cellular and Reproductive medicine Research).
- Chairman and member of Editorial board of cell journal (index in ISI and PubMed).
- Member of Editorial board of International Journal of Fertility and Sterility (index in ISI and PubMed).
- Head of Genetic department of Royan institute (2003-2012).
- President of Royan institute (2006-2017).
- Member of scientific committee of ACECR since 2006.
- Member of trustees board in Science and Culture University since 2007.
- Head of managing board of Royan Stem Cell Technology Co. Since 2006.
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## **Publications:**

1. A cytokinesis blocked micronucleus study of radioadaptive response of lymphocytes of individuals occupationally exposed to chronic doses of radiation. **Gourabi, H.** Mozdarani, H. *Mutagenesis* vol. 13, No 5, PP 475-480 1998.
2. Chromosomal aberrations and micronuclei in lymphocytes of medical radiation workers occupationally exposed to ionizing radiation. **Gourabi, H.** Mozdarani, H. *Yakhteh Medical Journal*, vol. 3. No 11, autumn of 2002.
3. The effect of low level laser irradiation on human embryonic stem cells. Baharvand, H., Soleimani, M., **Gourabi, H.** *Yakhteh*, vol7, No2. 2005
4. Molecular analysis of the IVS8-T splice variant 5T and M470V exon 10 missense polymorphism in Iranian males with congenital bilateral absence of the vas deferens. Radpour, R., Sadighi, M., **Gourabi, H.**, Vousogh, A., Mollamohamadi, S. *Mol. Hum. Reprod.* May 2006.
5. Two novel missense and one novel nonsense CFTR mutation on Iranian males with congenital bilateral absence of the vas deferens. Radpour, **Gourabi, H.**, R., Sadighi, M Vousogh, A., Mollamohamadi, S. *Mol. Hum. Reprod.* May 2006.
6. Correlation between CFTR Gene Mutations in Iranian Men with Congenital Absence of the Vas Deferens and Anatomical Genital Phenotype.. Radpour R, **Gourabi H**, Sadighi Gilani MA, Vosough Dizaj A. *J Androl* 2007 Aug 1.
7. Molecular study of (TG)m(T)n polymorphisms in Iranian males with congenital bilateral absence of the vas deferens Radpour R, **Gourabi H**, Gilani MA, Dizaj AVJ *Androl.* 2007 Jul-Aug;28(4):541-7
8. De novo complex chromosomal rearrangement of 46, XY, t (3; 16; 8) (p26; q13; q21.2) in a non-obstructive azoospermic male. Salahshourifar I, Gilani MA, Vosough A, Tavakolzadeh T, Tahsili M, Mansori Z, Karimi H, Totonchi M, **Gourabi H.** *J Appl Genet.* 2007;48(1):93
9. Identification of Mouse Embryonic Stem Cell-Associated Proteins. Baharvand H, Fathi A, **Gourabi H**, Mollamohammadi S, Salekdeh GH. *J Proteome Res.* 2007 Nov 30.
10. Colony formation ability of frozen thawed spermatogonial stem cell from adult mouse . Morteza Koruji<sup>1</sup> Ph.D., Mansoureh Movahedin<sup>1</sup> Ph.D., Seyed Javad Mowla<sup>2</sup> Ph.D., **Hamid Gourabi** Ph.D. *Iranian journal of reproductive medicine*, vol.5 no 3 summer 2007.
11. Survival rate of preantral follicles derived from vitrified neonate mouse ovarian tissue by cryotop and conventional methods. Eimani H, Mamzaji SS, Soleimani MM, Abnosi MH, Valojerdi MR, Yazdi PE, Shahverdi A, **Guorabi H.** *Biofactors.* 2007;31(2):117-26.

12. Chromosomal Abnormalities in Iranian Infertile Males who are Candidates for Assisted Reproductive Techniques. Iman Salahshourifar, Mohammad Ali Sadighi Gilani, Najmeh sadat Masoudi, **Hamid Gourabi**. Royan Institute Iranian Journal of Fertility and Sterility Vol 1, No 2, Summer 2007, Pages: 75-79.
13. The Morphological Changes of Adult Mouse Testes after  $^{60}\text{Co}$   $\gamma$ -Radiation. Mansoureh Movahedin<sup>1</sup> Ph.D., Seyed Javad Mowla<sup>2</sup> Ph.D., **Hamid Gourabi**<sup>3</sup> Ph.D. Iranian Biomedical Journal 12 (1): 35-42 (January 2008)
14. Royana: Successful Experience in cloning the sheep. Saeed Kazemi Ashtiani, Mohammad Hossein Nasr-Esfahani, Sayyed Mortaza Hosseini, Fariba Moulavi, Mahdi Hajian, Mohsen Frouzanfar, Parvaneh Abedi, Maryam Meamar, Mojtaba Rezazadeh Valojerdi, **Hamid Gourabi**, Abdolhossein Shahverdi, Hossein Baharvand, Ahmad Vosough Dizaj, Hossein Imani, Poopak Eftekhari-Yazdi, Mahdi Vojgani, Mahdi Safahani, Ramin Radpour, Iman SalahshouriYakhteh. Yakhteh Medical Journal, Vol 10, No 3, Autumn 2008, Pages: 193-200
15. Previous maternal chemotherapy by cyclophosphamide (Cp) causes numerical chromosome abnormalities in preimplantation mouse embryos .Zeinab Barekatia,b, **Hamid Gourabi**, Mojtaba Rezazadeh valojerdi, Poopak Eftekhari Yazdi .Reproductive Toxicology 26 (2008) 278–281
16. Identification of Mouse Embryonic Stem Cell-Associated Proteins.Hossein Baharvand, Ali Fathi, **Hamid Gourabi**, Sepideh Mollamohammadi, and Ghasem Hosseini Salekdeh. Journal of Proteome Research 2008, 7 (01), pp 412–423
17. Genetic Investigations of CFTR Review Mutations in Congenital Absence of Vas Deferens, Uterus, and Vagina as a Cause of Infertility. Ramin Radpour, **Hamid Gourabi**, Ahmad Vousough Dizaj, Wolfgang Holzgreve and Xiao Yan Zhong. Journal of Andrology, Vol. 29, No. 5, September/October 2008
18. Efficiency of adult mouse spermatogonial stem cell colony formation under several culture conditions M. Koruji , M. Movahedin, S. J. Mowla, **H. Gourabi**, A. J. Arfaee In Vitro Cell.Dev.Biol.—Animal December 2008.
19. Separation of X- and Y-bearing human spermatozoa by sperm isolation medium gradients evaluated by FISH. F Aleahmad1, **H Gourabi**, B Zeinali, S Kazemi Ashtiani, H Baharvand. Reproductive BioMedicine Online Vol 18 No 4. 2009 475-478
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21. Proteomic Analysis of Monkey Embryonic Stem Cell during Differentiation Davood Nasrabadi, Mehran Rezaei Larijani, Leila Pirhaji, **Hamid Gourabi**, Abdolhossein Shahverdi, Hossein Baharvand, and Ghasem Hosseini Salekdeh *J. Proteome Res.*, Publication Date (Web): 18 February 2009
22. Cytogenetic Findings in Couples who Are Candidates for Assisted Reproductive Techniques. I. Salahshourifar, N. Sadat Masoudi, **H. Gourabi**. Yakhteh Medical Journal, Vol 10, No 4, Winter 2009, Pages: 288-294
23. Calcitropic hormones, insulin resistance, and the polycystic ovary syndrome Touraj Mahmoudi,**Hamid Gourabi**, Ph.D.,Mahnaz Ashrafi, Reza Salman Yazdi and Zahra Ezabadi. Fertility and Sterility\_ Vol. -, No. -, - 2009 .

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25. Single Nucleotide Polymorphism Analysis of Protamine Genes in Infertile Men . Ahamad Salamian, Kamran Ghaedi, Shahnaz Razavi, Mahmud Tavalae, Somayeh Tanhaei, Marzyeh Tavalae, Iman salahshouri, **Hamid Gourabi**, Mohammad Hossein Nasr-Esfahani. International Journal of Fertility and Sterility Vol 2, No 1, International Journal of Fertility and Sterility Pages: 13-18.
26. Accuracy Assessment of Interphase Fluorescence In-Situ Hybridization on Uncultured Amniotic Fluid Cells. **Hamid Gourabi**, Mahnaz Ashrafi, Hamideh Karimi. International Journal of Fertility and Sterility. Vol 2, No 1, May-Jun 2008, 29-34
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## **Seminars and Congress:**

- 1- The first Iranian Congress of Medical Physics (1992)
- 2- The first Iranian Congress of Biology (1998)
- 3- The Fifth Annual Meeting of The Middle East Fertility Society (1998)
- 4- The Fourth Iranian Congress of Medical Physics (2000)
- 5- 2<sup>nd</sup> International conference of The Effects of Low and Very Low Doses of Ionizing Radiation on Human Health (2001, Dublin)
  - 7<sup>th</sup> annual Scientific Association of Swiss Radiation Oncology (2003 Geneva) (poster presentation).
  - The twelfth annual meeting of the middle east society (MEFS) (one oral presentation and two posters, Egypt, 2005).
  - The 13<sup>th</sup> annual meeting of the middle east society (MEFS) (One oral presentation by my student, and one by my co-worker also one poster by my student)
  - 14<sup>th</sup> International Conference of the International Society of Differentiation Oct. 2006 Austria Innsbruck. The effect of Gamma Radiation on different strains of mouse embryonic stem cells.
  - 5<sup>th</sup> ISSCR Annual Meeting Australia, June 17-20, 2007 Queensland Radiosensitivity in mouse embryonic stem cells: strain differences.
  - 5<sup>th</sup> ISSCR Annual Meeting Australia, Queensland June 17-20, 2007 DNA methylation pattern of the SOX-2 and FGF-4 regulatory regions in three different human embryonic stem cell lines.
  - HUPO 6<sup>th</sup> Annual World Congress, Korea Seoul Oct. 6-10, 2007-11-14A proteomics approach to identify human embryonic stem cell-associated proteins.
  - 14<sup>th</sup> World Congress on in Vitro Fertilization Canada Montreal, Sept. 15-19, 2007. Numerical chromosomal abnormalities assay by electrofusion technique after maternal chemotherapy with cyclophosphamide in preimplantation mouse embryos.
  - FSA 2007 Preserving Fertility Australia Hobart, Sept. 9-12, 2007 Distinct spectrum of CFTR mutations and IVS8 (TG)m(T)n variants in Iranian males with congenital bi/unilateral absence of the vas deferens.
  - 6<sup>th</sup> Annual meeting Mediterranean Society for Reproductive Medicine, Turkey Antalya 2007. The effect of cyclophosphamide on in vitro fertilization
  - Genostem 2007 . Effect of low intensity ultra sound osteogenic differentiation in rat bone marrow mesenchymal stem cells: in vitro study
  - The Asian-pacific International Congress of anatomists 8<sup>th</sup> Iranian congress of anatomical sciences 16-19 May 2008 Iran Tehran Osteogenic differentiation induction by low intensity ultrastructure in rat marrow derived mesenchymal stem cells.



- The 2<sup>nd</sup> Iranian Proteomics congress Iran Tehran, April 23-24, 2009, Proteome analysis of nuclear fraction of monkey embryonic stem cells during differentiation.
- 7<sup>th</sup> ISSCR Annual Meeting Spain Barcelona July 8-11, 2009, Enhanced neural cell differentiation from hESCs using a polyamide nanofiber scaffold.
- 7<sup>th</sup> ISSCR Annual Meeting Spain Barcelona, July 8-11, 2009, Generation of human induced pluripotent Stem cells from liver-specific patients.
- 7<sup>th</sup> ISSCR Annual Meeting Spain Barcelona, July 8-11, 2009, Establishment of human induced Pluripotent stem cells from retinal specific Disorders.
- 7<sup>th</sup> ISSCR Annual Meeting Spain Barcelona, July 8-11, 2009, Feeder and serum-free establishment and Expansion of human induced pluripotent Stem cells.
- 10th Congress on Reproductive Biomedicine & 5th Congress on Stem Cell Biology & Technology Iran Tehran, 23-25, September 2009 Proteomic Analysis of Monkey Embryonic Stem Cell during Differentiation.
- 10th Congress on Reproductive Biomedicine & 5th Congress on Stem Cell Biology & Technology Iran Tehran, 23-25, Stepwise Direct Differentiation of Human Embryonic Stem Cells into Functional Motorneurons.
- 11<sup>th</sup> Congress of Iranian Urological Association Iran May 29-June 1, 2008 Genetics in Male Infertility
- Scientific Association of Swiss Radiation Oncology Swiss April 2003 Cytogenetic study of the radioadaptive response of lymphocytes of individuals occupationally exposed to chronic doses of radiation.
- Annual meeting of the society for reproductive medicine USA-Oct. 13-17, 2007. Distinct spectrum of CFTR mutations and IVS8 (TG)m(T)n variants in Iranian males with congenital bi/unilateral absence of the vas deferens.
- 62<sup>nd</sup> Annual meeting of the American Society for Reproductive Medicine USA, Louisiana 21-25 Oct. 2006, CFTR mutations panel of Persian males with congenital bilateral absence of the vas deferens.
- 13<sup>th</sup> annual meeting of MEFS Jordan Nov. 15-17, 2006 Distinct spectrum of CFTR mutations and IVS8 poly (T) variants in Persian males with congenital bilateral absence of the vas deferens.
- 13<sup>th</sup> annual meeting of MEFS Jordan Nov. 15-17, 2006, Numerical chromosomal abnormalities assay by electrofusion technique after maternal chemotherapy with cyclophosphamide in preimplantation mouse embryo.
- 13<sup>th</sup> annual meeting of MEFS Jordan Nov. 15-17, 2006 De Novo complex chromosomal rearrangement of 46, XY, t (3; 16; 8) (p26; q13; q21.2) in a non-obstructive azoospermic male: case report.
- 8<sup>th</sup> Royan Twin Congress Iran Tehran, Sept. 5-7, 2007, Novel mutations and (TG)m (T)n polymorphism in Iranian males with congenital bilateral absence of the vas deferens.
- 8<sup>th</sup> Royan Int. Twin Congress, Iran Tehran, Sept. 5-7, 2007 Application of proteomics to identify human embryonic stem cell-associated proteins.
- World congress on Medical Physics Korea Seoul, 2006 The effect of gamma radiation on survival of mouse embryonic stem cell.
- 13<sup>th</sup> annual meeting of MEFS Jordan 15-17 Nov. 2006 Different mouse embryonic stem cells have different responses to gamma irradiation.

- 14<sup>th</sup> congress of Iranian society for Reproductive Medicine Yazd Iran. 20-22 Feb 2008 Numerical chromosomal abnormalities assay by electrofusion technique after maternal chemotherapy with cyclophosphamide in preimplantation mouse embryos.
- 12<sup>th</sup> annual meeting of MEFS Egypt Nov. 23-26, 2005 Assessment of discontinuous pure sperm gradient in separation of X and Y bearing human spermatozoa by fluorescent in situ hybridization (FISH).
- 12<sup>th</sup> annual meeting of MEFS Egypt Nov. 23-26, 2005 The evaluation of interphase FISH for prenatal diagnosis.
- 12<sup>th</sup> annual meeting of MEFS Egypt Nov. 23-26, 2005, Implementation of preimplantation genetic diagnosis in Royan Institute.
- 7<sup>th</sup> Royan Int. Twin Congress Tehran Iran Sept. 13-15, 2006, The effect of maternal chemotherapy with cyclophosphamide at different ages on in vitro fertilization, development and numerical chromosomal abnormality in preimplantation mouse embryos.
- 7<sup>th</sup> Royan Int. Twin Congress Tehran Iran Sept. 13-15, 2006, Distinct spectrum of CFTR mutations and IVS8 poly (T) variants in Persian males with congenital bilateral absence of the vas deferens.
- 2<sup>nd</sup> International student's award & congress in reproductive medicine Iran Yazd, 11-13 May 2007, Autograft of mature mouse spermatogonial stem cell, after in vitro treatment with SCF, GM-CSF, GDNF, into azoospermia mouse model generated by gamma irradiation
- 2<sup>nd</sup> International student's award & congress in reproductive medicine Iran Yazd, 11-13 May 2007, Numerical Chromosomal abnormalities assay by electrofusion technique after maternal chemotherapy with cyclophosphamide in preimplantation mouse embryo.
- 56<sup>th</sup> annual meeting of ASHG New Orleans USA, 2006, CFTR mutations panel of Persian males with congenital bilateral absence of the vas deferens.
- 10<sup>th</sup> Royan International Twin congress, Iran Tehran, September 2009, Stepwise direct differentiation of human embryonic stem cells into functional motor neurons.
- 10<sup>th</sup> Royan International Twin congress, Iran Tehran, September 2009, Study of polymorphism in intron 4 of the endothelial nitric oxide synthase gene in relation to susceptibility to miscarriage.
- 10<sup>th</sup> Royan International Twin congress, Iran Tehran, September 2009, Cytogenetic effects of gonadotropin releasing hormone analogue: buserelin during ovulation induction cycle by sister-chromatid exchange assay.
- 10<sup>th</sup> Royan International Twin congress, Iran Tehran, September 2009, DNA methylation patterns of BCL2, BAX, BAG1 and CASP3 genes in fragmented and normal human embryos derived from ART.
- 10<sup>th</sup> Royan International Twin congress, Iran Tehran, September 2009, Exploring the role of maternal KIR and parental HLA-C genotypes in the maintenance of pregnancy.
- 11<sup>th</sup> Iranian Genetics congress, Iran Tehran 2012, Production of coagulation factor 9 in the milk of transgenic goats.

(Not complete list)

### ***Book publication:***

- Translation of “Christensen’s Physics of Diagnostic Radiology” in to Persian language (Two Volume) (1991)
- New edition of “Christensen’s Physics of Diagnostic Radiology” and four times reprint (2010-2014)
- Translation of “Genetics for Dummies” in to Persian (2014)