



### **General Information:**

**Name:** Mohammad Hossein

**Surname:** Moradi

**Date of Birth:** September 22, 1982

**Place of Birth:** Iran

**Language:** Persian, English

### **Academic Qualifications:**

**B.Sc:** Animal Science, 2000-2004, University of Agriculture Science and Natural Resources, Gorgan, Iran.

**M.Sc:** Genetics and Animal Breeding, 2004-2007, University of Kurdistan, Sanandaj, Iran.

**PhD:** Genetics and Animal Breeding, University of Tehran, Karaj, Iran.

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### **Areas of Research Interests**

- ✚ Genomic Evaluation and Genomic Selection
- ✚ Selective signatures and Genome Wide Association Studies (GWAS)
- ✚ Molecular Markers and QTL detection
- ✚ Genetic diversity in farm animals

### **Topic of M.Sc. Thesis:**

- ✚ Evaluation of genetic diversity in Markhoz goats using Inter Simple Sequence Repeat (ISSR) markers

Supervisors: Dr. Rostamzadeh and Dr. Rashidi

### **Topic of PhD. Thesis:**

- ✚ Genomic scan for selection signatures in some sheep breeds and identification of candidate rejoin associated with fat deposition

Supervisors: Dr Nejadi-Javaremi, Dr. Moradi-Shahrehabak and Dr. John C McEwan

### **Awards:**

- ✚ First place among all B.Sc. graduates of Animal Science at the University of Gorgan, 2000.
- ✚ First place among all M.Sc. graduates of Animal Genetic and Breeding at the University of Kurdistan, 2004.
- ✚ Selected as Elite Thesis and Student Researcher of the province of Kurdistan, Iran, 2007.

### Academic position;

- 🏠 Research and education vice of agriculture, Faculty member at the Arak University (Feb 2013- Now)

### Publications:

- Moradi, M. H.**, J. Rostamzadeh, A. Rashidi, Kh. Vahabi and H. Farahmand. 2013. Analysis of genetic diversity in Iranian Mohair goat and its color types using Inter Simple Sequence Repeat (ISSR) markers. *Journal of Agricultural Communications*. 1:2.
- Moradi, M. H.**, A. Nejati-Javaremi, M. Moradi-Shahrbabak, K. G. Dodds and J. C. McEwan. 2012. Genomic scan of selective sweeps in thin and fat tail sheep breeds for identifying of candidate regions associated with fat deposition. *BMC Genetics*. 13:10.
- Moradi, M. H.**, A. Nejati-Javaremi, M. Moradi-Shahrbabak, K. G. Dodds and J. C. McEwan. 2012. Whole-genome scan of population differentiation in Zel and Lori-Bakhtiari sheep breeds. *Journal of Agricultural Biotechnology*. 52(2):70-72. (In Persian, abstract in English)
- Javanmard, A., **M. H. Moradi**, M. Safdari. 2013. Analysis of association among four candidate genes polymorphisms with milk yield and reproductive performance traits in Sarabi cow using PCR-RFLP marker. *Journal of Agricultural Biotechnology*. In press.
- Najafpanah, M. J., H. Mousapour, N. Feiz, **M. H. Moradi**, B. Ghorbani. 2013. Evaluation of economic traits in Romanov × Iranian fat-tail sheep breed in the first generation (F1). *ADSA: ASAS joint annual meeting, Indiana, USA*.
- Mehrban, H., N. Ibanez Escriche, **M. H. Moradi**. 2013. Prediction of genomic breeding value using Chromosomal BayesB method. National meeting of domestic animals and poultry. Sari agricultural science and natural resources university, Sari, Iran. (In Persian, abstract in English)
- Moradi, M. H.**, A. Nejati-Javaremi, M. Moradi-Shahrbabak, R. Anderson, K. McRae, K. G. Dodds and J. C. McEwan. 2011. Genomic scan of selective sweeps in thin and fat tail sheep breeds. 3<sup>rd</sup> Annual research colloquium. Centre of Reproduction and Genomics, New Zealand.
- Moradi, M. H.**, J. Rostamzadeh and A. Rashidi. 2008. Evaluation of genetic diversity using ISSR markers in Goat and Sheep. 10<sup>th</sup> Iranian Genetics Congress, Razi conferences hall, Tehran, Iran. P: 340. (In Persian, abstract in English)
- Moradi, M. H.**, J. Rostamzadeh, A. Rashidi and F. Karimi-Dastgerdi. 2007. Evaluation of genetic diversity in Markhoz color types using ISSR markers. The 5<sup>th</sup> National Biotechnology Congress of Iran, Summit meeting conference hall, Tehran, Iran. P: 431. (In Persian, abstract in English)
- Sheikh-Ahmadi, M., A. Rashidi, J. Rostamzadeh, and **M. H. Moradi**. 2007. Estimation of environmental effects for fleece traits in Markhoz Goat. The 1<sup>st</sup> Congress of Agriculture and Natural Science Research in East Regions of Iran, University of Kurdistan, Sanandaj, Iran. P: 56. (In Persian, abstract in English)

(Papers in research, Information and educational Mgazines)

- Moradi, M. H.**, Karimi-Kurdistani, G and J. Rostamzadeh. 2006. Applications of Nanotechnology in Agriculture industry. *Agriculture and Natural resource engineering regulation of Iran, Seasonal Issue*. 4(15):36-39. (In Persian)

**Moradi, M. H** and A. Rashidi. 2006. Genetic resources conservation of endangered animal. Agriculture and Natural resource engineering regulation of Iran, Seasonal issue. 3(12):64-70. (In Persian)

**Moradi, M. H** and G. Sadeghi. 2004. Practical aspects of biotechnology in animal nutrition and health. Magazine of World husbandry, Tehran, Iran. 2(11): 4-10. (In Persian)

### **Projects;**

- # Genomic scan of selective sweeps in Iranian sheep breeds
- # Genome wide association study of wool related traits in some Iranian sheep breeds
- # Study of genetic diversity and haplotypic analysis in Zel and Lori-Bakhtiari sheep breeds using mitochondrial genome
- # Crossbreeding in some thin and fat tail sheep breeds for improving of economic traits in F1
- # Effect of omega 3 supplementation on some blood metabolites of ostrich (*Struthio camelus*)

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### **Current course teaching:**

- Genetics
- Statistics
- Experimental designs
- Sheep and Goat rearing
- Principles of domestic animal Genetics
- Population Genetics

### **Practical Experiences:**

- # Laboratory skills: Molecular biology (e.g. DNA Extraction from Blood, PCR-based techniques, electrophoresis), genotyping using Illumina SNP Chip, Sequenom MassARRAY Platform.
- # Genetic and Statistical Programs: PHASE 2.1, fastPHASE V.A.2.3, Haploview, SWEEP, iHS and XP-EHH, ONE-Dscan, NTSYSpc V 2.02, POPGENE V1.31, SAS.