


## PERSONAL INFORMATION




## Mohamed M. I. Salem

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Sex Male | Date of birth 01/08/1981 | Nationality Egyptian

## POSITION

Associate professor of Animal breeding and genetics

## WORK EXPERIENCE

2003 **Demonstrator**

Department of Animal and Fish Production, University of Alexandria, Alexandria (Egypt)  
teaching courses to undergraduate students

2006–2010 **Assistant Lecturer**

Department of Animal and Fish Production, University of Alexandria, Alexandria (Egypt)  
teaching courses to undergraduate students

2011–2018 **Assistant professor**

Department of Animal and Fish production, Faculty of Agriculture, Alexandria University, Alexandria (Egypt)

- Teaching courses of Animal breeding and genetics to undergraduate students
- Teaching courses of animal breeding, genetics and statistical analysis to post graduate students
- Supervisor of MSc students

2018–Present **Associate professor**

Department of Animal and Fish production, Faculty of Agriculture, Alexandria University, Alexandria (Egypt)

- Teaching course of Principal of Animal Production
- Teaching courses of Animal breeding and genetics to undergraduate students
- Teaching courses of animal breeding, genetics and statistical analysis to post graduate students
- Supervisor of MSc and PhD students

## EDUCATION AND TRAINING

1998–2002 **B.Sc. Animal Production,**

Faculty of Agriculture, Alexandria University, Alexandria (Egypt)

- Agriculture Science
- Animal Production science

2003–2006 **M.Sc. Animal Breeding**

Department of Animal and Fish Production, faculty of Agriculture, Alexandria University, Alexandria (Egypt)

M.Sc thesis Title "Study on the effect of modern technique to improve the growth of sheep"

- 2007–2010 **Ph.D. Animal Breeding**  
College of Agriculture "Luiz de Queiroz" (ESALQ), São Paulo University, Piracicaba (Brazil)  
Dissertation Title "QTLs for growth traits and growth curve in crossbred dairy cattle"
- Jul 2013–Jan 2014 **Post-Doctoral**  
Research Centre in Biodiversity and Genetic Resources, University of Porto, Porto (Portugal)  
Project Title: Study genome wide association and linkage disequilibrium in Portuguese Holstein Cattle
- 27 May 2006–30 May 2006 **Training course: Teaching with Technology**  
Alexandria University, Egypt
- 3 Jun 2006–5 Jun 2006 **Training course: Communication skills**  
Alexandria University, Egypt
- 13 Jun 2006–15 Jun 2006 **Training course: Thinking skills**  
Alexandria University, Egypt
- 17 Jun 2006–20 Jun 2006 **Training course: Research methodology**  
Alexandria University, Egypt
- 17 Nov 2008–20 Nov 2008 **Workshop: Longitudinal and Incomplete Data**  
Departamento de Ciências Exatas da ESALQ/USP, Piracicaba (Brazil)
- 20 Jun 2009–27 Jun 2009 **Workshop: Análise de componentes principais com múltiplas matrizes de dados – Aplicação no melhoramento genético**  
Departamento de Ciências Exatas da ESALQ/USP, Piracicaba (Brazil)
- 3 Aug 2009–6 Aug 2009 **Workshop: Fitting Linear Mixed Model in Agricultural Research**  
Departamento de Ciências Exatas da ESALQ/USP, Piracicaba (Brazil)
- 24 Aug 2010–26 Aug 2010 **Training course: The credit hour systems**  
Alexandria University, Egypt
- 31 Aug 2010–2 Sep 2010 **Training course: Quality standards in the education process**  
Alexandria University, Egypt
- 4 Sep 2010–6 Sep 2010 **Training course: Research ethics**  
Alexandria University, Egypt
- 9 Oct 2010–11 Oct 2010 **Training course: Exams and student evaluation system**  
Alexandria University, Egypt
- 23 Oct 2010–25 Oct 2010 **Training course: Conference organization**  
Alexandria University, Egypt
- 9 Sep 2012–20 Sep 2012 **Workshop: Molecular markers applied to livestock conservation**  
Department of Animal Production, Ain Shams University, Cairo (Egypt)
- 25 Sep 2013 **Workshop: A Bibliometria na gestão da ciência**  
Faculty of Science, Porto University, Porto (Portugal)
- 2 Dec 2013–5 Dec 2013 **Training course: Proteomics: gel-based protein separation by two-dimensional gel electrophoresis and protein characterization by MALDI-TOF/TOF mass spectrometry**  
Porto University, Porto (Portugal)

- 8 Dec 2014–10 Dec 2014 **Training course: Researchers Guidelines Training Program**  
Bibliotheca Alexandrina, Alexandria (Egypt)
- 12 Oct 2015–30 Oct 2015 **Training course: Interactive learning, action research and outreach in higher education**  
ICRA, Wageningen (Netherlands)
- 2 Feb 2015 – 3 Feb 2015 **Training course: International Publishing of research**  
Alexandria University, Egypt
- 4 Feb 2015 – 5 Feb 2015 **Training course: Crisis & disaster management**  
Alexandria University, Egypt
- 7 Sep 2015 – 8 Sep 2015 **Training course: Competitive research projects**  
Alexandria University, Egypt
- 9 Sep 2015 – 10 Sep 2015 **Training course: University management**  
Alexandria University, Egypt
- 14 Sep 2015 – 15 Sep 2015 **Training course: International Publishing of research**  
Alexandria University, Egypt
- 13 Feb 2016 – 14 Feb 2016 **Training course: University legal & Financial Aspects**  
Alexandria University, Egypt
- 24 Aug 2019 – 25 Aug 2019 **Training course: E-Exams**  
Alexandria University, Egypt
- 15 Dec 2019 – 19 Dec 2019 **Training course: In the rural investment introductory**  
Food and Agriculture Organization of the United Nations (FAO)
- 17 Aug 2020 -17 Aug 2020 **Online training course: Methods of measurement, evaluation and preparation of the test item.**  
Ministry of Higher education and Scientific research.
- 06 Jul 2020 -06 Sep 2020 **Online training course: Intellectual property**  
World Intellectual Property Organization (WIPO)
- 30 Jul 2020-30 Aug 2020 **Online training course: use MOODLE in distance learning**  
Faculty of Agriculture, Alexandria University
- 9 Oct 2020- 10 Oct 2020 **Online training course: use Microsoft teams in distance learning**  
Faculty of Agriculture, Alexandria University

PERSONAL SKILLS

Mother tongue(s) Arabic

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
Portuguese	B2	B2	B2	B2	B2

- Communication skills**
- I am familiar with using many statistical packages such as SAS and R.
  - I can handle many programs related to constructing genetic maps and QTL detection such as OneMap, MapMaker, QTL Cartographer, Rqtl, Qxpak, gridQTL, Plink and Haploview.
  - I am familiar with use ASREML, MTDFREML and Wombat programs.
  - International ICDL.
- Teaching Experience**
- I teach the following classes for undergraduate and graduate students:
- Principal of Animal production
  - Principles Animal Breeding
  - Principles Animal Genetics
  - Principles of Statistics
  - Experimental Design
  - Advanced Animal Breeding

## ADDITIONAL INFORMATION

- Conferences**
- BioVision Alexandria " New life sciences: Changing Lives", Bibliotheca Alexandrina, Alexandria, Egypt, April 2006.
  - 44<sup>th</sup>Annual meeting of Brazilian Society of Animal Science, Jaboticabal, São Paulo, Brazil, July 24-27, 2007.
  - International workshop on recent strategies in animal production, Animal Production Department, Faculty of Agriculture, Alexandria University, Alexandria, Egypt, November 5-7, 2012.
  - 10<sup>th</sup> the world congress on genetics applied to livestock production. August 17-22 Vancouver, British Colombia, Canada.
  - 2<sup>nd</sup> International conference on modern approaches in livestock production system. October 12-14, 2015, Alexandria, Egypt.
  - Plant& Animal genome XXIV conference. January 9-13, 2016 San Diego, California, USA.
- Projects**
- A genomic approach to improve production and reproduction traits in Egyptian buffalo. Funded from STDF. 2019. ID number: 33531.
- Publications**
1. Salem, M. M. I., Thompson, G., Chen, S., Pereira, A. B., and Carnevali, J. (2020). Genomic region, biological processes and pathways associated with somatic cell score in Dairy Cattle. Czech Journal of Animal Science (major revision).
  2. Abu Rawasha, R. A. Sharaby, M. A. Hassan, G. A. Hafez, E. E. Abu Hafsa, S. H. Salem, M. M. I. (2020). Expression analysis of HSP70 and interleukins 2, 6 and 12 genes of Rahmani sheep during summer and winter seasons. Tropical Animal Health and Production. Under review
  3. Salem, M. M. I; Nasr; M. A. F., Amin M. S. A. (2020). Principal component analysis of breeding value for birth weight, milk and reproductive traits of Egyptian buffalo. Tropical Animal Health and Production. Under review.
  4. Amin M.S. A, Salem, M. M. I. EL Nagar, A. G. Ibrahim, M. M.E. Darweish. S. A. (2020). Factors affecting calving ease in Egyptian buffalo. Reproduction in Domestic Animals. In press.
  5. Salem, M. M. I; Amin M. S. A., Ashour, A. F., Ibrahim, M. M., Abo-Ismael, M. K. (2020). Genetic parameters and Principal components analysis of breeding value for birth and weaning weight in Egyptian buffalo. Animal Bioscience. 34 (1): 12-19.
  6. Hammoud, M.H. and Salem, M.M.I. (2019). Estimates of variance components and heritabilities of pre-weaning growth traits of Anglo-Nubian and Baladi kids. Egypt. J. Anim. Prod. 56(3):121-127
  7. Hammoud, M.H. and Salem, M.M.I. (2019). Genetic analysis of pre-weaning growth traits of Barki and Rahmani lambs. Egypt. J. Anim. Prod. 56(3):111-119

8. Hammoud, M.H. and M.M.I. Salem (2019). Genetic analysis of pre-weaning growth traits of Anglo-Nubian and Baladi kids. *J. Animal and Poultry Prod., Mansoura Univ.*, 10(8): 243-249.
9. Salem, M. M. I., and Hammoud, M.H. (2019). Genetic evaluation of some productive lifetime traits of locally born Friesian cows in Egypt. *Egypt. J. Anim. Prod.* 56(2): 39-45
10. Salem, M. M. I., Thompson, G., Chen, S., Pereira, A. B., and Carvalheira, J. (2017). Linkage disequilibrium and haplotype block structure in Portuguese Holstein cattle. *Czech Journal of Animal Science* 63 (2): 61–69.
11. Salem, M.M.I. and Amin, A.M.S. (2017). Risk factors and genetic evaluation for stillbirth in buffalo using a Bayesian threshold model. *Livestock Science* 206: 132-134.
12. Al-Araimia, N. A. Al-Atiyat, R. M. Gaafar, O. M. Vasconcelosa, R. Luzuriaga-Neiraa, A. Eisa, M. O. Amir, N. Benaissa, M. H. Alfaris, A. A. Aljumaah, R. S. Elnakhla, S. M. Salem, M. M.I. Ishag, I. A. El Khasmi, M. and A. B. Beja-Pereira. (2017). Maternal genetic diversity and phylogeography of native Arabian goats. *Livestock science*, 206:88-94.
13. Hammoud, M.H. and Salem, M.M.I. (2017). Estimates of variance components and heritability of pre-weaning growth traits of Barki and Rahmani lambs. *Egyptian Journal of Animal Production*, 59(3):199-205
14. Salem, M. M. I., Thompson, G., Chen, S., Pereira, A. B., and J. Carvalheira. (2016). Haplotype block structure in Portuguese dairy cattle. Accepted as a poster presentation in International Plant & Animal Genome XXIV, San Diego, CA, USA, January 9-13.
15. Salem, M. M. I., and Hammoud, M.H. (2016). Estimates of Heritability, Repeatability and Breeding Value of Some Performance Traits of Holstein Cows in Egypt Using Repeatability Animal Model. *Egypt. J. Anim. Prod.* 53(3):147-152
16. Salem, M. M. I., and Hammoud, M.H. (2016). Genetic parameters of first lactation traits of Holstein cows in Egypt. *Egypt. J. Anim. Prod.* 53(2): 75-80.
17. Salem, M. M. I., Thompson, G., Chen, S., Pereira, A. B., and J. Carvalheira. (2014) Genome-Wide Association Study for Milk-Fat Yield in Portuguese Holstein Cattle. 10th World Congress on Genetics Applied to Livestock Production, Vancouver, BC, Canada, August 17 – 22.
18. Carvalheira, J., Salem, M. M. I., Thompson, G., Chen, S., and A. B. Pereira. (2014) Genome-Wide Association Study for Milk and Protein Yields in Portuguese Holstein Cattle. 10th World Congress on Genetics Applied to Livestock Production, Vancouver, BC, Canada, August 17 – 22.
19. Salem, M.M.I., EL-Hedainy, D. K.A., Latif, M.G. and Mahdy, A.E. (2013). Comparison of non-linear growth models to describe the growth curve in fattening Friesian crossbred and buffalo male calves. *Alex. J. Agric. Res.* 58 (3): 273-277.
20. Hammoud, M.H., and Salem, M.M.I. (2013). The Genetic evaluation of some first lactation traits of Holstein Cows in Egypt. *Alex. J. Agric. Res.* 58 (1): 1-8.
21. Hammoud, M.H., and Salem, M.M.I. (2012). The genetic evaluation of birth and weaning weights of Baladi and Anglo-Nubian kids in Egypt. *Alex. J. Agric. Res.* 57 (3): 281-287.
22. Hammoud, M.H., and Salem, M.M.I. (2012). The genetic evaluation of pre-weaning growth traits of Barki and Rahmani lambs. *Alex. J. Agric. Res.* 57(1):51-57.
23. Salem, M. M. I., Mourão, G. B., Gasparin, G., Azevedo, A. L. S., Verneque, R. S., Machado, M. A., and L. C. A. Regitano. (2010). Interactions and epistasis between QTLs affecting weight at two years in crossbred dairy cattle. Accepted as a poster presentation in 47th Annual meeting of Brazilian Society of Animal Science, Salvador, BA – UFBA, July-27 – 30.
24. Salem, M. M. I., Mourão, G. B., Gasparin, G., Azevedo, A. L. S., Verneque, R. S., Machado, M. A., and L. C. A. Regitano. (2010). QTLs for growth traits in F2 dairy cattle population. Accepted as a poster presentation in 47th Annual meeting of Brazilian Society of Animal Science, Salvador, BA – UFBA, July-27 – 30.
25. Mourão, G. B., Salem, M. M. I., Packer, I. U., Pinto, L. F. B., Gasparin, G., Azevedo, A. L. S., Verneque, R. S., Machado, M. A., and Regitano, L. C. A. (2010). Detection of quantitative trait loci for growth traits on bovine chromosome 2. Accepted as a poster presentation in 9th World Congress on Genetics Applied to Livestock Production, Leipzig, Germany, August 1 – 6, 2010. PP3-24. Edited by German Society for Animal Science; 2010.
26. Salem, M. M. I., Mourão, G. B., Packer, I. U., Pinto, L. F. B., Gasparin, G., Azevedo, A. L. S., Verneque, R. S., Machado, M. A., and L. C. A. Regitano. (2010). Identification of Quantitative Trait loci for growth curve in crossbred dairy cattle population. Accepted as a poster presentation in 9th World Congress on Genetics Applied to Livestock Production, Leipzig, Germany, August 1 – 6,

2010. PP1-24. Edited by German Society for Animal Science.

#### Thesis Supervision

Raad Kmal M. Sc. Students, thesis title " Genetic polymorphism in some sheep immune system genes and their response to the environmental changes"

Mohamed Amir Riad, M. Sc. students, thesis title" genetic evaluation of productive lifetime traits in Holstein Frisian in Egypt"

Kholood Ahmed Elbanhawy ,M. Sc. studenets , thesis title "Genetic evaluation of some important economic traits in Egyptian buffalo"2019.

#### References

Prof. Mohamed Abdalla Zaki , Department of Animal Production, Faculty of Agriculture, Alexandria University, El-Shatby, Alexandria Egypt. e-mail: mohamed\_zaki4@yahoo.com

Prof. Julio Carvalheira, Research Center in Biodiversity and Genetic Resources (CIBIO) – InBIO, Porto University, Portugal. e-mail: jgc3@cibio.up.pt