

Curriculum Vitae

Personal information	
First name / Surname	Ahmed ELBELTAGY
Address (work)	Animal Production Research Institute, Dept. Animal Biotech, 5 Nadi Elsaid St, Dokki, Giza, Egypt.
Telephone (office)	+202-33372462
Mobile	+201005620692
E-mail	ahmed_elbeltagi@yahoo.com
Nationality	Egyptian
Gender	Male
Education and training	
Location and dates	Cairo, Egypt; 2006
Title of qualification awarded	PhD, Animal Breeding and Genetics (Animal Molecular Genetics)
Principal subjects/ occupational skills covered	"Genetic characterization of some local <i>Bos bubalus bubalis</i> types using molecular techniques"
Name of Institute	Ain Shams University, Cairo, Egypt;
Work experience	
Location and dates	Animal Production Research Institute, 2006-Present
Occupation or position held	Research Scientist, Animal Breeding and Genetics
Main activities and responsibilities	<p>Supervising Molecular Genetics lab running activities of Molecular genotyping (using Microsatellite, PCR-RFLP, and SCCP approaches), DNA sequencing, quantitative gene expression assay (using qRT-PCR), and Quantitative analysis of molecular data for the purposes of Biodiversity studies, parentage test, and QTL association studies.</p> <p>Participating in the planning, implementation, monitoring and assessment of APRI strategy for livestock genetic improvement and sustainable utilization of FAnGRs.</p> <p>Organizing, executing and supervising local/international training events and capacity building in the field of Animal Breeding and Molecular Genetics and Management of FAnGR.</p> <p>Promoting cooperation and implementing R&D projects with international institutions, Iowa State University, USA; INRA, France; Laboratory for Genetics and Services, LGS, Italy; Associazione Nazionale Allevatori Frisone Italiana, ANAFI, Italy; International Livestock Research Institute, ILRI, Nairobi, Kenya and SUA university, Tanzania, in research and capacity building in the field of molecular characterization, genetic improvement and sustainable utilization of FAnGRs.</p>
Name of employer	Animal Production Research Institute, Ministry of Agriculture and Land Reclamation, Egypt
Location and dates	Animal Production Research Institute, Cairo, Egypt- 2003-2006 National Gene Bank, ARC, Cairo, Egypt, 2003-2006 (seconded)

Occupation or position held	Associate Research Scientist,					
Main activities and responsibilities	Structuring Database for Animal Genetic Resources documentation, and Molecular genetic characterization for indigenous Farm AnGR. Participating in the setting the NGB strategy for characterization, documentation, and conservation of the Animal Genetic Resources. Heading the NGB activities of molecular characterization for indigenous FAnGR.					
Name of employer	Animal Production Research Institute, Ministry of Agriculture and Land Reclamation, Egypt					
Location and dates	Animal Production Research Institute, Cairo, Egypt; 2000-2002					
Occupation or position held	Research Assistant					
Main activities and responsibilities	Participation in upgrading of recording system and genetic evaluation of APRI dairy animals using BLUP-EBV. Contribution to training/awareness activities in the field of Genetic evaluation and improvement, animal husbandry and welfare. Monitoring on-farm management for some APRI dairy experimental farms.					
Name of employer	Animal Production Research Institute, Ministry of Agriculture and Land Reclamation, Egypt (Buffalo Breeding Dept.)					
Languages						
Mother tongue(s)	Arabic					
Other language(s)	English and French					
		Understanding		Speaking		Writing
<i>European level (*)</i>		Listening	Reading	Spoken interaction	Spoken production	
<i>French</i>		C2	C2	C2	C1	C2
<i>English</i>		A2	A2	A1	A1	A1

Academic Record	
Publications	<p>Abdel-khalek A.M., A.R.Elbeltagy, Ayat Ragab, Out-Elkelob Mustafa, and A. Ibrahim. 2013. Effect of Dietary Selenium Levels on Performance of Rabbits during Summer Season. 4th APRI International Scientific Conference, Cairo, Egypt, 3-6 Nov., 2013, 622-627</p> <p>Abdel Khalek, T. M., M.H. El-Shafie, A.M. Aboul-Naga, A. R. Elbeltagy, Y.H. Hafez and M.M. Anwar. 2012. Physiological Response of Desert Barki Sheep and Goats to Dehydration and Rehydration under Arid Conditions of North Coastal Zone, Egypt. Egyptian J. Anim. Production, 49(3): 267-274.</p> <p>Aboul-Naga A. M, H.H., Khalifa, A.R. Elbeltagy, T.M. Abdel Khalek, M. H. Elshafie, M.M. Anwar, and B. Rischkowsky. 2010. Tolerance to Abiotic Stresses in Egyptian Barki Desert Sheep and Goats, Raised under Hot-Dry Conditions: Individual Variations. Proceeding of the 10th International Conference on Development of Dry-lands, Meeting the Challenge of Sustainable Development in Dry-lands under Changing Climate–Moving from Global to Local. 12-15 December 2010, Cairo, Egypt: 445-459</p> <p>Aboul-Naga, Adel M., and Ahmed R. Elbeltagy. 2007. Animal Biotechnology: Applications and Implications in the Near East & North Africa (NENA) Countries. Journal of Agricultural</p>

	<p>Investment; 5, 86-93.</p> <p>Elbeltagy, A.R., A. M. Aboul-Naga, T. M. Abdel Khalek, M. H. Elshafie and B. Rischkowsky. 2012. Tolerance to Abiotic Stresses in Egyptian Desert Sheep and Goats Raised Under Hot-Dry Conditions: Biological Analysis to Natural and Acute Heat Stresses. XI International Conference of Goats, Gran Canarian, Spain.</p> <p>Elbeltagy, A.R. A. M. Aboul-Naga, H. H. Khalifa, T. M. M. Abdel Khalek, M. H. Elshafie and B. Rischkowsky. 2014. Biological and Mathematical Analysis of Egyptian Desert Sheep and Goats Response to both Natural and Acute Heat Stress (under publication)</p> <p>Elbeltagy, A.R., Eui-Soo Kim, A. M. Aboul-Naga, B. Rischkowsky, and M. F. Rothschild. 2014. Signature of Natural Selection and Initiation of GWAS. PAG, 10-15 January 2014, San Diego, CA, USA.</p> <p>Elbeltagy, A.R., Salah Galal, F. El-Keraby M. Blasi, and Mahasen M. Mohamed. 2008. Genetic Biodiversity in Mediterranean Buffalo. <i>Livestock Sci.</i>; 114 (2), 341-346</p> <p>Elkeraby, F., A.R Elbeltagy, and M. Blasi. 2004. PCR_RFLP detection for bovine β-Casein and β-Lactoglobulin in Egyptian buffalo. The International Society of Animal Genetics, ISAG, Tokyo, 11-16 December 2004.</p> <p>FAO and MoALR. 2003. First National Report on the State of the Animal Genetic Resources in the Arab Republic of Egypt, pp 59 (Arabic).</p> <p>Fooda, T. A.; Elbeltagy A. R.; Laila R. Hassan and SetEl-habaeib S. Awad. (2011). Assessment of Egyptian buffaloes crossing with Pakistani and Italian buffaloes for some production traits. <i>Journal of American Science</i> 2011;7(1):269-276. (ISSN: 1545-1003). http://www.jofamericanscience.org.</p> <p>Fooda, T. A.; Elbeltagy A. R.; Laila R. Hassan and SetEl-habaeib S. Awad (2011). Evaluated of Egyptian buffaloes crossing with Italian buffaloes for reproductive traits. <i>Journal of American Science</i> 2011;7(7):209-213. (ISSN: 1545-1003). http://www.americanscience.org.</p> <p>Salah Galal and Elbeltagy, A.R. 2007. Buffalo production in Egypt. World Association for Animal Production, WAAP, Book of the Year 2007.</p> <p>Shamiah, Sh. M; A. M. A Hussein; M. A. Tag El-Dein; S.A. Sweify and A. R. Elbeltagy. 2011. Effect of Seminal PH Value at Insemination on Sex-Ratio of Bovine Embryo. <i>J. Animal and Poultry Prod., Mansoura Univ.</i>, Vol. 2 (8) 303-310.</p>
Presentations/invited speaker	<p>Climate Expert Consultation Workshop 2014: Ecosystems at Risk: Safeguarding Egypt's Biodiversity", 12, March 2014, Cairo. Egypt. Presenting a research work on "Genetic Adaptation of <i>Bovine</i> Livestock in the Mediterranean Region".</p> <p>FAO 2012: Regional Workshop on "Characterization and Value Addition to local Breeds and their Products for Near East and North Africa" 19-21 November 2012, Rabat, Morocco. Presenting the Country Report on the Status of the Characterization and Value Addition of Indigenous FAnGR.</p> <p>ICARDA/IFAD 2008: Expert Consultation "Development of Small Ruminant Research and Development Strategy for Rural Poverty Reduction in Non-Tropical Dry Areas of the Near East and North Africa". 9-11 March 2008, Cairo, Egypt. Presenting a keynote titled "<i>Biodiversity in Local Small Ruminant Breeds in Egypt</i>"</p> <p>EASG 2008: Egyptian Association for Sheep and Goats, EASG, 2nd International Scientific</p>

	<p>Conference on Small Ruminant Production, 12-14 February, 2008, Cairo, Egypt. Presenting a Keynote titled "Utilization of Novel Functional Genomics Techniques in Sheep Breeding, A Recent Approach for Genetic Improvement".</p> <p>EAAP 2006: The 57th Annual Meeting of the European Association for Animal Production, 17-20 September 2006, Antalya, Turkey. Presenting a research work on "Genetic polymorphism of two Egyptian buffalo breeds in comparison with Italian buffalo using two ovine and bovine-derived microsatellite multiplexes"</p> <p>FAO 2002: The 2nd Workshop on the Preparation of the First National Report on the State of the Animals Genetic Resources in Egypt" Food and Agriculture Organization of the United Nations and Ain Shams University, FAO/ASU. 15-16 Sep. 2002, Cairo, Egypt.</p> <p>ACSAD/APRI 2002: ACSAD/APRI conference on "Fingerprinting of Farm Animals in the Arabian Countries, 26-29 May, 2002, Cairo, Egypt. Presenting a Key Note on" Farm animals fingerprinting using microsatellite",</p> <p>FAO 2002: "Formation of the National Committee for Preparation of the First National Report on The State of the Animal Genetic Resources in Egypt". The Food and Agricultural Organization of the United Nations and Ain Shams University, FAO/ASU. 10-15 Feb., 2002, Cairo, Egypt.</p>
Books or books chapter author	Salah Galal and Elbeltagy, A.R. 2007. Buffalo production in Egypt. World Association for Animal Production, WAAP, Book of the Year 2007.
Graduate teaching as lecturer or training coordinator	Participate in national and international training courses and summer courses held in the Animal Production Research Institute, APRI, the International Livestock Management Training Center, ILMTC, Sakha, Ain Shams Center for Genetic Engineering and Biotechnology, ACGEB, and Agricultural Genetic Engineering Research Institute, AGERI. Training subjects cover theoretical, on-bench training, and computational processing for the fields of animal molecular characterization, utilization of molecular genetic markers in the genetic improvement of farm animals. Teaching/training are offered for national university students and international trainees/students, e.g. Afro-Asian and UNCTAD awarded graduate students).
Collaboration and Networking	
Participation in collaborative projects funded by competitive programmes	<p>2012-2014. Egyptian PI for the project titled "Genetic Adaptation of Bovine Livestock and Production System in Mediterranean Region (GALIMED), Meta-Programme of Adapting Agriculture and Forestry to Climate Change (MP ACCAF- INRA, France)</p> <p>2012-2014. Egyptian PI for the project titles "Genetics of Stress Tolerance in Egyptian Sheep" funded by the Egyptian-French Scientific Collaboration Program (IMHOTEP).</p> <p>2012-2013. CATTLECONEKTA; A Marie-Curie IRSES Action, including Iberian Peninsula and Egypt "Genotyping of Bovine Genetic Resources in Egypt and the Iberian Peninsula"</p> <p>2009-Present, APRI-PI for the project titled "Identification of some Functional DNA Sequences and their Utilization for Improving some Economic Traits in Egyptian Buffalo", funded by the Science and Technology Development Fund, STDF.</p> <p>2009-Present, Co-PI for the project titled " Functional Genomics Analysis for Tolerance of Indigenous Desert Small-Ruminants Breeds To Abiotic Stresses Under Arid Conditions", funded by the International Center for Agricultural Research in the Dry Areas, ICARDA.</p> <p>2009-2010, Egyptian Co-PI for the project titled "Genetic Biodiversity of Indigenous Small</p>

	<p>Ruminants Genetic Resources tolerant to Abiotic Stress in Hot and Dry Areas", funded by the International Center for Agricultural Research in the Dry Areas, ICARDA.</p> <p>2008-2011, Co-PI for the project titled "Effect of Climatic Change on Physiological and Productive Performance in Local Small Ruminant Breeds", funded by the Agricultural Research and Development Council, ARDC.</p> <p>2006 – 2009. Co-PI for the project titled "Molecular Genetic Characterization and Conservation of the Main At-Risk Small-Ruminant Breeds In Egypt, funded by the Academy of Scientific Research and Technology, ASRT.</p> <p>2004- 2007, Head of APRI lab group for the project titled "Detection of molecular markers linked to prolificacy in Egyptian goats" in cooperation with Ain Shams University, funded by the Academy of Scientific Research and Technology, ASRT.</p> <p>2003-2005, Head of APRI lab group for the project titled "Identification of Cattle Genotypes and Parental relationships using the DNA, in Egypt" 212/01/EGIT/1, in cooperation with the Associazione Nazionale Allevatori Frisone Italiana, ANAFI, Italy.</p>
Post Doc. Scientific missions on small ruminant stress research activities	<p>January-May 2013: Iowa State University, Genome Screening for Signature of Selection and GWAS for abiotic stress tolerance traits in Egyptian Sheep and Goats.</p> <p>September-October 2013: Institut National de la Recherche Agronomique, INRA, Centre de Recherche de Toulouse, Station d'Amélioration Génétique des Animaux, FRANCE, Genetics of Abiotic Stress in Egyptian Sheep.</p>
Membership of professional bodies and committees	<p>2003-Present: Active Member in the National Committee for the preparation of the country report on the state of the Animal Genetic Resources, FAO & Ain Shams University, Cairo, Egypt (1st Country report on 2003, update information in 2011 and Second Country Report on 2013). Animal Breeding and Genetics Scientific Forum, APRI, ARC, Cairo, Egypt</p> <p>2003-Present. Coordinator for the African Biotech Scientific Group.</p> <p>Egyptian Society for Animal Production (ESAP), Cairo, Egypt</p> <p>2003-2006: Member of the Committee for Registration and Documentation of the Local Animal Genetic Resources, FAO, Cairo, Egypt</p>

Research management, Technology transfer and Communication

Team management	Heading the Molecular Genetics Lab team of the Animal Production Research Institute, Ministry of Agriculture and land Reclamation, Egypt.
Technological platform management	Co-PI for the project titled "Identification of some Functional DNA sequences and their utilization for improving some economic traits in Egyptian Buffalo", funded by the Science and Technology Development Fund, STDF. This project aims to produce marketable molecular-based kit for screening and selection of genetically improved dairy buffalo.
Consultancy for the public or private sector	<p>Monitoring and Evaluation Specialist, Food Sector Development Programme, FSDP (EU funded Programme). Head of Monitoring and Evaluating of the impact of the FSDP Technical activities on target areas/groups ;</p> <p>Liaison work with governmental and cooperatives for the impact assessment and institutional development.</p> <p>Contributing to the implementation workshops for Work Plan/Cost Estimate.</p>

Other experience and skills relevant to the application

Specialized Computer software skills: -

Genome-Wide Genotyping Analysis Software (PLINK, R, Beagle, HAPLORE, STRUCTURE)

Statistical Analysis Packages (SAS 6.12) -

Genetic Evaluation Packages (MTDFREML, Boldman) -

Microsatellite Genotyping Data Analysis, (R, GenePop 3.3, FSTAT, POPGENE 32, MICROSATELLITE ANALYSER 3.15, STRUCTURE, BOTTLENECK), GENECLASS, and ARLEQUIN 2.001) -

Phylogenic data analysis software: PHYLIP 3.5 -

Mathematical Application (MATLAB and MINITAB)