

Egypt  
 Ministry of Agriculture  
 Agricultural Center  
 Animal Production Research Institute  
 Department of Animal Nutrition



## CURRICULUM VITAE

### Personal Details:

<b>Title</b>	Dr.	<b>Forenames</b>	Hamed	<b>Midden name</b>	Mohamed	<b>Surname</b>	Gaafar
<b>Date of birth</b>	May 17, 1962		<b>Place of birth</b>		Kafr El-Sheikh		
<b>Nationality</b>	Egyptian		<b>Religion</b>		Muslim		
<b>Gender</b>	Male		<b>Martial status</b>		Married		
<b>Address</b>	Egypt, Kafr El-Sheikh, Sakha Animal Production Research Laboratories						
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### Education:

College/University	Degree obtained	Subjects of study	Dates	
			From	To
Kafr El-Sheikh, Fac. of Agric., Tanta Univ.	B. Sc. of Animal Production	Animal Sciences	1981	1985
Kafr El-Sheikh, Fac. of Agric., Tanta Univ.	M. Sc. of Animal Nutrition	Metabolism of some minerals in cattle and buffaloes	1989	1994
Kafr El-Sheikh, Fac. of Agric., Tanta Univ.	Ph. D. of Animal Nutrition	Performance of growing calves fed ration containing corn silage	1997	2001

### Employment History:

Employer	Position	Dates	
		From	To
Special Sector	Engineer of Animal Production	1/7/1988	24/9/1995
Ministry of Agriculture	Engineer of Animal Production	25/9/1995	5/11/1996
Animal Production Research Institute	Engineer of Animal Nutrition	6/11/1996	30/8/2001
Animal Production Research Institute	Associate Researcher of Animal Nutrition	1/9/2001	20/12/2001
Animal Production Research Institute	Researcher of Animal Nutrition	21/12/2001	12/1/2007
Animal Production Research Institute	Senior Researcher of Animal Nutrition	13/1/2007	Till now

## **Training:**

<b>Training attended</b>	<b>Place</b>	<b>Dates</b>	
		<b>From</b>	<b>To</b>
Ruminant Nutrition	Animal Production Research Institute	17/5/1997	22/5/1997
Dairy Animals Husbandry	Sakha Dairy Training Unit	7/6/1997	12/6/1997
Animal Nutrition	Sakha Dairy Training Unit	21/6/1997	26/6/1997
Computer level 1	Tanta University	1/10/1997	31/10/1997
Intensive English Language	Tanta University	21/3/1998	3/5/1998
Ruminant Nutrition	Animal Production Research Institute	13/6/1998	24/6/1998
Planning farm (Feed & Animal Nutrition)	Sakha Dairy Training Unit	13/2/1999	4/3/1999
Computer level 2	Tanta University	1/4/1999	30/4/1999

## **Fields of interest:**

- 1- Research work with regard of the following subjects:
  - Ruminant feeding.
  - Treatment of by-products and roughage.
  - Conservation of green forages.
  - Utilization of residues of processing of agriculture products.
  - New sources of feedstuffs for ruminants.
  - Environmental pollution.
  - Analysis of feedstuffs.
- 2- Introduction of new technology of animal nutrition into farms of different area of Egypt.
- 3- Training/ supervising of village extension of different areas of Egypt with following subjects:
  - Fodder conservation (silage and hay).
  - Urea and ammonia treatment of straws.
  - Dairy cows and buffaloes feeding.
  - Calf rearing.
  - Least cost ration formulation.
- 4- Supervising of graduate student study M. Sc. and Ph. D.
- 5- Member of scientific societies:
  - Egyptian Society of Animal Production.
  - Egyptian Society of Nutrition and Feeds.
  - Saudi Society for Life Sciences.

### **Conferences:**

- 1- The 1<sup>st</sup> Scientific Conference of Animal and Fish Production, 24-25 September, Faculty of Agriculture, Mansoura University, Egypt.
- 2- The 9<sup>th</sup> Scientific Conference of Animal Nutrition, 14-17 October 2003, Hurghada City, Egypt.
- 3- The 2<sup>nd</sup> Scientific Conference of Animal Production Research Institute, 27-29 September 2005, Sakha, Kafr El-Sheikh, Egypt.
- 4- The 14<sup>th</sup> Scientific Conference of Egyptian Society of Animal Production and the 3<sup>rd</sup> Scientific Conference of Animal Production Research Institute, 17-18 December 2008, Cairo, Egypt.
- 5- FAO/IAEA International Symposium on Sustainable Improvement of Animal Production and Health, 8–11 June 2009, Vienna, Austria.
- 6- XV<sup>th</sup> International Silage Conference Proceedings, 27-29 July 2009, Madison, Wisconsin, USA
- 7- 8<sup>th</sup> International Symposium of Animal Biology and Nutrition. National Research Development Institute for Animal Biology and Nutrition, 25 September 2009, Bucharest, Romania.
- 8- The 12<sup>th</sup> Scientific Conference of Animal Nutrition, 20-23 October 2009, Sharm El-Sheikh City, Egypt.
- 9- The 14<sup>th</sup> International Symposium Forage Conservation, 17-19 March 2010, Brno at Czech Republic.
- 10- Food, Feed, Energy and Fibre from Land - a vision for 2020, An International Conference to address future challenges for land use. Queen's University, Belfast, Northern Ireland, 12-14 April 2010.
- 11- Adapting Animal Production to Changes for a Growing Human Population International Conference. Lleida, Spain, May 19-21, 2010
- 12- Australian Society of Animal Production, 28<sup>th</sup> Biennial Conference, University of New England, Armidale, New South Wales, 11 - 15 July 2010.
- 13- The 4<sup>th</sup> International Conference on Greenhouse Gases and Animal Agriculture (GGAA2010), Banff, Alberta, Canada, October 3-8, 2010.

### **Published papers:**

#### **1994:**

- 1- Abdel-Raouf, E.M.; M.K. Mohsen; S.A. Mahmoud and **H.M.A. Gaafar** (1994). Hair and blood plasma as indicators of minerals status in cattle and buffaloes. *J. Agric. Sci. Mansoura Univ.*, 19: 103.

#### **2001:**

- 2- Bendary, M.M.; S.A. Mahmoud; E.M. Abdel-Raouf; M.K. Mohsen and **H.M.A. Gaafar** (2001). Economical and nutritional evaluation of ensiling corn crop. *Egyptian J. Nutrition and Feeds*, 4: 89.
- 3- Mohsen, M.K.; S.A. Mahmoud; E.M. Abdel-Raouf; M.M. Bendary and **H.M.A. Gaafar** (2001). Performance of growing Friesian calves fed rations containing corn silage. 1- Nutrient digestibility, rumen activity, live body

weight gain and economic evaluation. *Egyptian J. Nutrition and Feeds*, 4: 485.

#### 2003:

- 4- Mahmoud, S.A.; Mohsen, M.K.; M.M. Bendary; E.M. Abdel-Raouf and **H.M.A. Gaafar** (2003). Performance of growing Friesian calves fed rations containing corn silage. 2- Blood constituents and carcass traits. *Egyptian J. Nutrition and Feeds*, 6: 727.
- 5- **Gaafar, H.M.A.** (2003). Saliva and urine as indicators of mineral status of buffaloes. *J. Agric. Sci. Mansoura Univ.*, 28: 147.
- 6- Shitta, A.A. and **H.M.A. Gaafar** (2003). Effect of replacing berseem hay by vegetable marketing waste silage in the rations on some productive and physiological traits of lactating cows. *J. Agric. Sci. Mansoura Univ.*, 28: 5957.

#### 2004:

- 7- **Gaafar, H.M.A.** (2004). Effect of grain content in corn hybrids on nutritive value of whole plant corn silage. *Egyptian J. Nutrition and Feeds*, 7: 1.
- 8- **Gaafar, H.M.A.;** A.A. Shitta and S.A. Ibrahim (2004). Some factors affecting on productive performance of suckling Friesian calves. *Egyptian J. Basic and Appl. Physiol.*, 3: 273.
- 9- **Gaafar, H.M.A.;** A.A. Shitta; E.E. Ragheb; A.M.A. Mohi El-Din and A.F. Mehrez (2004). Effect of dietary phosphorus supplementation on productive and reproductive performance of lactating Friesian cows. *J. Agric. Res. Tanta Univ.*, 30: 542.
- 10- El-Nahas, H.M.; G.H. Ghanem; **H.M.A. Gaafar** and E.E. Ragheb (2004). Effect of feeding berseem and orange wastes silages on productive performance of lactating Friesian cows. *J. Agric. Sci. Mansoura Univ.*, 29: 6137.

#### 2005:

- 11- Ghanem, G.H.A.; M.M. Bendary; **H.M.A. Gaafar;** A.E. Draz and M.I. Abou Youssef (2005). Utilization of rice straw for feeding ruminants. 1- Productive performance of lactating cows fed berseem and different forms of rice straw. *Animal Production Research Institute, 2<sup>nd</sup> Conference, 27-29 September. p. 155.*
- 12- **Gaafar, H.M.A.;** A.M.A. Mohi El-Din; M.E. Omara; A.E. Abdel-Khalek and M.A. Abu El-Hamd (2005). Effect of dietary cadmium and lead contamination on growing rabbits. 1- Productive performance. *Animal Production Research Institute, 2<sup>nd</sup> Conference, 27-29 September. p. 669.*
- 13- **Gaafar, H.M.A.;** A.A. Shitta and E.A. Omer (2005). Probiotic supplementation for suckling Friesian calves. 1- Productive performance. *Egyptian J. Nutrition and Feeds*, 8: 163.
- 14- **Gaafar, H.M.A.;** R.M. Abou-Aiana; G.H.A. Ghanem and Maha A. Ali (2005). Accumulation of some heavy metals and histological aspects of

- body tissues of growing Friesian calves fed poultry litter and corn silage. *Egyptian J. Anim. Prod.*, 42: 95.
- 15- **Gaafar, H.M.A.;** M.A. Tag El-Din and R.M. Abou-Aiana (2005). Some factors affecting productive and reproductive performance of Friesian heifers. *J. Agric. Sci. Mansoura Univ.*, 30: 819.
- 2006:**
- 16- Bendary, M.M.; G.H.A. Ghanem and **H.M.A. Gaafar** (2006). Utilization of rice straw for feeding ruminants. 2- Productive performance of lactating buffaloes fed rice straw silage. *J. Agric. Sci. Mansoura Univ.*, 31: 5025.
- 2007:**
- 17- Eweedah, N.M.; M.S. Saleh; **H.M.A. Gaafar;** E.M. Abdel-Raouf and W.M. Hagag (2007). Evaluation of different kinds of silage supplemented with limestone. *J. Agric. Res. Kafr El-Shiekh Univ.*, 33: 16.
- 18- Abou-Aiana, R.M.; **H.M.A. Gaafar;** K.F.A. El-Riedy and M.E. Omara (2007). Effect of feeding level and yeast culture supplementation on productive and reproductive performance of growing Friesian calves. *J. Agric. Res. Kafr El-Shiekh Univ.*, 33: 480.
- 19- Shamiah, Sh.M.; A.A. Shitta and **H.M.A. Gaafar** (2007). Some factors affecting twinning rate and its effects on postpartum reproductive performance of Friesian cows. *Egyptian J. Anim. Prod.*, 44: 111.
- 2008:**
- 20- Abou-Aiana, R.M.; **H.M.A. Gaafar,** M.A. Tag El-Din and A.M.A. Hussien (2008). Effect of antiparasitic drugs on growth rate and semen quality of friesian bulls. *Kafrelsheikh Vet. Med. J.*, 6: 348.
- 21- **Gaafar, H.M.A.;** A.M.A. Mohi El-Din and K.F.A. El-Riedy (2008). Effect of biological treatment of corn stover silage on chemical composition, fermentation characteristics and ruminal degradability. *J. Agric. Sci. Mansoura Univ.*, 33: 7101.
- 22- **Gaafar, H.M.A.** (2008). Accumulation of some heavy metals in hair, plasma and milk of cattle and buffaloes grazing berseem or reed plants in Egypt. *Egyptian J. Anim. Prod.*, 45: 71.
- 23- Abou-Elhamd, M.A.; R.M. Abou-Aiana; Sh.M. Shamiah and **H.M.A. Gaafar** (2008). Some factors affecting on reproductive performance of Friesian cows. *Kafrelsheikh Vet. Med. J.*, 6: 530.
- 24- Mohi El-Din, A.M.A.; **H.M.A. Gaafar;** H.M. El-Nahas; E.E. Ragheb and A.F. Mehrez (2008). Effect of natural feed additives on performance of growing Friesian calves. *Egyptian J. Anim. Prod.*, 45 (Suppl. Issue):501.
- 25- Mohi El-Din, A.M.A.; **H.M.A. Gaafar** and S.A. Swiefy (2008). Effect of yucca extract supplementation on productive performance of growing Friesian calves. *Egyptian J. Anim. Prod.*, 45 (Suppl. Issue):

**2009:**

- 26- **Gaafar, H.M.A.** (2009). Some factors affecting on nutritive value of whole plant corn silage. *XV<sup>th</sup> International Silage Conference Proceedings July 27-29, 2009 – Madison, Wisconsin, USA*, p. 383.
- 27- **Gaafar, H.M.A.** (2009). Status of some minerals in Friesian calves fed different levels of concentrate feed mixture and corn silage. *XV<sup>th</sup> International Silage Conference Proceedings July 27-29, 2009 – Madison, Wisconsin, USA*, p. 385.
- 28- **Gaafar, H.M.A.**; M.I. Basiuoni, M.E. El-Gendy and K.F.A. El-Riedy (2009). Effect of protected protein on performance of crossbred ewes and their offspring. *J. Agric. Sci. Mansoura Univ.*, 34: 7696.
- 29- Basiuoni, M.I.; **H.M.A. Gaafar**; M.F.E. Ali; A.A.Shitta and A.Sh.E. Shamas (2009). Utilization of zinc methionine supplementation to lactating Friesian cows. 1- Productive performance. *Egyptian J. Nutrition and Feeds*, 12:3 (Special Issue): 1.
- 30- Mehany, S.B.; A.M.A. Mohi El-Din; **H.M.A. Gaafar** and E.A. Omer (2009). Effect of supplementing lactating cows and buffaloes by protected fat and protected protein on productive and reproductive performance. *Egyptian J. Nutrition and Feeds*, 12:3 (Special Issue): 29.
- 31- **Gaafar, H.M.A.**; G.H.A. Ghanem; M.M. Bendary; F.I. Zein; A.A.I. Atwa and Hamida M.A. El-Sanafawy (2009). Effect of polluted irrigation water on accumulation of some heavy metals in clay soil, berseem and milk of cows and buffaloes. *Egyptian J. Nutrition and Feeds*, 12:3 (Special Issue): 71.
- 32- El-Nahas, H.M., I.M.E. Shakweer; **Gaafar, H.M.A.** and R.M. Abou-Aiana (2009). Productive performance and semen physical characteristics of Friesian calves fed different proportions of sugar beet tops and corn stover silages. *Egyptian J. Nutrition and Feeds*, 12:3 (Special Issue): 193.
- 33- **Gaafar, H.M.A.**; A.M.A. Mohi El-Din; M.I. Bassiouni and K.F.A. El-Riedy (2009). Effect of concentrate to roughage ratio and baker's yeast supplementation during hot season on performance of lactating buffaloes. *Slovak J. Anim. Sci.*, 42(4): 188. [http://www.cvzv.sk/slju/09\\_4/Gaafar.pdf](http://www.cvzv.sk/slju/09_4/Gaafar.pdf)

**2010:**

- 34- **Gaafar, H.M.A.**; M.I. Bassiouni, M.F.E. Ali; A.A.Shitta and A.Sh.E. Shamas (2010). Effect of zinc methionine supplementation on somatic cell count in milk and mastitis in Friesian cows. *Archiva Zootechnica* 13:2, 36-46, [http://www.ibna.ro/arhiva/AZ%2013-2/AZ%2013-2\\_04%20Gaafar.pdf](http://www.ibna.ro/arhiva/AZ%2013-2/AZ%2013-2_04%20Gaafar.pdf)
- 35- **H. M. A. GAAFAR**, Sh. M. SHAMIAH, A. A. SHITTA, H. A. B. GANAH (2010). Factors affecting retention of placenta and its influence on postpartum reproductive performance and milk production in Friesian cows. *Slovak J. Anim. Sci.*, 43(1): 6. [http://www.cvzv.sk/slju/10\\_1/Gaafar.pdf](http://www.cvzv.sk/slju/10_1/Gaafar.pdf)
- 36- **H M A Gaafar**, N M Eweedah, E M Abdel-Raouf and W M Hagag (2010). Effect of limestone supplementation on ruminal degradability of fiber

- fractions for different kinds of silage. *Livestock Research for Rural Development* 22 (5). <http://www.lrrd.org/lrrd22/5/gaaf22094.htm>
- 37- M I Bassiouni, **H M A Gaafar**, A M A Mohi El-Din, A M Metwally and M A H Elshora (2010). Evaluation of rations supplemented with fibrolytic enzyme on dairy cows performance 3. Productive performance of lactating Friesian cows. *Livestock Research for Rural Development* 22 (6). <http://www.lrrd.org/lrrd22/6/bass22117.htm>
- 38- M Mohsen, **H Gaafar**, M Khalafallah, A Shitta, A Elsheikh (2010). Effect of rumen protected choline supplementation on milk production and composition of lactating Friesian cows. *The Proceedings of the British Society of Animal Science constitute summaries of papers presented at the Society's, 12-14 April, Annual Conference in Belfast, UK.* [www.bsas.org.uk/downloads/annlproc/pdf2010/pdf2010.pdf](http://www.bsas.org.uk/downloads/annlproc/pdf2010/pdf2010.pdf)
- 39- **H.M.A. Gaafar**, E.M. Abdel-Raouf and K.F.A. El-Reidy (2010). Effect of Fibrolytic Enzyme Supplementation and Fiber Content of Total Mixed Ration on Productive Performance of Lactating Buffaloes. *Proc. Aust. Soc. Anim. Prod.* vol. 28, p. 36. <http://www.asap.asn.au/asap28/files/gaafar036.pdf>
- 40- **GAAFAR H.M.A.**, EWEEEDA N.M., ABDEL-RAOUF E.M., HAGAG W.M. (2010). Effect of limestone supplementation on ruminal degradability of fiber fractions for different kinds of silage. *14<sup>th</sup> International Symposium FORAGE CONSERVATION. Brno, Czech Republic, March 17-19, 2010* [http://www.isfc.eu/materials/sbornik\\_en.pdf](http://www.isfc.eu/materials/sbornik_en.pdf)
- 41- **Gaafar, H.M.A.**; A.I.A. Abd El-Lateif and Salwa B. Abd El-Hady (2010). Effect Of Partial Replacement Of Berseem Hay By Corn Silage On Performance Of Growing Rabbits. *Report and Opinion*, 2(9): 68.
- 42- **Gaafar, H.M.A.**; A.I.A. Abd El-Lateif and Salwa B. Abd El-Hady (2010). Effect Of Partial Replacement Of Berseem Hay By Ensiled And Dried Sugar Beet Tops On Performance Of Growing Rabbits. *Researcher*, 2 (9): 10.
- 43- **H. M. A. Gaafar** & Sh. M. Shamiah & M. A. Abu El-Hamd & A. A. Shitta & M. A. Tag El-Din (2010). Dystocia in Friesian cows and its effects on postpartum reproductive performance and milk production. *Trop. Anim. Health Prod.*, DOI 10.1007/s11250-010-9682-3, Published online: 11 September 2010. <http://www.springerlink.com/content/d3784kl0351q3jhw/fulltext.pdf>
- 44- **Gaafar, H.M.A.**; A.M.A. Mohi El-Din and K.F.A. El-Riedy (2010). Productive And Reproductive Performance Of Friesian Cows Under Different Feeding System. *Report and Opinion*, 2(10): 33.
- 45- **Gaafar, H.M.A.**; A.M.A. Mohi El-Din and M.I. Bassiouni (2010). Productive and reproductive performance of lactating cows and buffaloes fed total mixed rations (TMR). Greenhouse gases and animal agriculture conference, October 3-8, 2010, Banff, Canada.

**Under published papers:**

- 1- Ganah, H. A.B.; **H.M.A. Gaafar** and A.A. Shitta. Productive performance of twinning Friesian calves.
- 2- **Gaafar, H.M.A.;** A.M.A. Mohi El-Din; M.A. Abu El-Hamd and M.E. Omara. Effect of dietary cadmium and lead contamination on performance of growing rabbits. 2- Accumulation in body tissues and histological aspects
- 3- Abd El-Lateif, A.I.A.; **H.M.A. Gaafar** and Salwa B. Abd El-Hady. Effect of substitution of berseem hay by berseem silage on performance of growing rabbits.
- 4- Abd El-Lateif, A.I.A.; **H.M.A. Gaafar** and Salwa B. Abd El-Hady. Effect of substitution of berseem hay by ensiled and dried sweet potato vines on performance of growing rabbits.