

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



CURRICULUM VITAE

Personal Details:

Name: Prof. Dr. Hamed Mohamed Gaafar

Job: Chief Researcher of Animal Nutrition

Birth date: 17 May 1962

Birth place: Kafr El-Sheikh

Nationality: Egyptian

Religion: Muslim

Gender: Male

Martial status: Married

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Education:

B.Sc. Animal Production, Kafr El-Sheikh, Fac. of Agric., Tanta Univ., 1985.

M.Sc. Animal Nutrition, Kafr El-Sheikh, Fac. of Agric., Tanta Univ., 1994.
"Metabolism of some minerals in cattle and buffaloes"

Ph.D. Animal Nutrition, Kafr El-Sheikh, Fac. of Agric., Tanta Univ., 2001.
"Performance of growing calves fed ration containing corn silage"

Employment History:

- 1- **Specialist of Animal Production**, Animal Production Research Institute, 1988.
- 2- **Associate Researcher of Animal Nutrition**, Animal Production Research Institute, 2001.
- 3- **Researcher of Animal Nutrition**, Animal Production Research Institute, 2002.
- 4- **Senior Researcher of Animal Nutrition**, Animal Production Research Institute, 2007.
- 5- **Chief Researcher of Animal Nutrition**, Animal Production Research Institute, 2012.

Training courses:

- 1- **Ruminant Nutrition**, Animal Production Research Institute, 17-22/05/1997.
- 2- **Dairy Animals Husbandry**, Sakha Dairy Training Unit, Animal Production Research Institute 07-12/06/1997.

- 3- **Animal Nutrition**, Sakha Dairy Training Unit, Animal Production Research Institute 21-26/06/1997.
- 4- **Computer level 1**, Tanta University, 01-31/10/1997.
- 5- **Intensive English Language**, Tanta University, 21/03-03/05/1998.
- 6- **Ruminant Nutrition**, Animal Production Research Institute, 13-24/06/1998.
- 7- **Planning farm (Feed & Animal Nutrition)**, Sakha Dairy Training Unit, Animal Production Research Institute, 13/02-04/03/1999.
- 8- **Computer level 2**, Tanta University, 13/02-04/03/1999.
- 9- **Toefl**, Alexandria University, 17-21/07/2010.
- 10- **ICDL**, 10/01/2011

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 1st Scientific Conference of Animal and Fish Production, 24-25 September, Faculty of Agriculture, Mansoura University, Egypt.
- 2- The 9th Scientific Conference of Animal Nutrition, 14-17 October 2003, Hurghada City, Egypt.
- 3- The 2nd Scientific Conference of Animal Production Research Institute, 27-29 September 2005, Sakha, Kafr El-Sheikh, Egypt.

- 4- The 14th Scientific Conference of Egyptian Society of Animal Production and the 3rd 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- XVth International Silage Conference Proceedings, 27-29 July 2009, Madison, Wisconsin, USA.
- 7- 8th International Symposium of Animal Biology and Nutrition. National Research Development Institute for Animal Biology and Nutrition, 25 September 2009, Bucharest, Romania.
- 8- The 12th Scientific Conference of Animal Nutrition, 20-23 October 2009, Sharm El-Sheikh City, Egypt.
- 9- The 14th International Symposium Forage Conservation, 17-19 March 2010, Brno at Czech Republic.
- 10- Food, Feed, Energy and Fiber 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, 28th Biennial Conference, University of New England, Armadale, New South Wales, 11 - 15 July 2010.
- 13- The 4th International Conference on Greenhouse Gases and Animal Agriculture (GGAA2010), Banff, Alberta, Canada, October 3-8, 2010.

Published papers:

- 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(1): 103-116.
- 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(*Special Issue*): 89-103.
- 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(*Special Issue*): 485-497.
- 4- Mahmoud, S.A.; M.K. Mohsen; 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(*Special Issue*): 727-738.
- 5- **Gaafar, H.M.A.** (2003). Saliva and urine as indicators of mineral status of buffaloes. J. Agric. Sci. Mansoura Univ., 28(1): 147-156.
- 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(8): 5957-5967.
- 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): 1-10.
 - 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(2): 273-286.
 - 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(3): 542-558.
 - 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(11): 6137-6148.
 - 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, 2nd Conference, 27-29 September.* p. 155-166.
 - 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, 2nd Conference, 27-29 September.* p. 669-680.
 - 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(2): 163-173.
 - 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(2): 95-107.
 - 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(2): 819-931.
 - 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.
 - 17- Eweedah, N.M.; M.S. Saleh; **H.M.A. Gaafar;** E.M. Abdel-Raouf and W.M. Haggag (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.
 - 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): 527.
 - 26- **Gaafar, H.M.A.** (2009). Some factors affecting on nutritive value of whole plant corn silage. XVth 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. XVth 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- 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.
 - 30- **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.

- 31- 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.
- 32- **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.
- 33- **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.
- 34- **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.
- 35- **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>
- 36- 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>
- 37- **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. *Slovak J. Anim. Sci.*, 43(3): 147–153.
- 38- **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.
- 39- **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.
- 40- **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.
- 41- **H.M.A. Gaafar**, A.A. Shitta, Sh.M. Shamiah, H.A.B. Ganah (2010). Productive performance of twin Friesian calves in Egypt. *Slovak J. Anim. Sci.*, 43(4): 179-186.
- 42- Bassiouni, M.I.; **H.M.A. Gaafar**; M.S. Saleh; A.M.A. Mohi El-Din and M.A.H. Elshora (2010). Evaluation of rations supplemented with fibrolytic enzyme on dairy cows performance. 1- *In Situ* ruminal degradability of

- different feedstuffs. *Livestock Research for Rural Development*, 23 (4).
- 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.*, 43(2): 229–234.
- 44- Bassiouni, M.I.; **H.M.A. Gaafar**; A.M.A. Mohi El-Din; E.A. Omer and M.A.H. Elshora (2011). Evaluation of rations supplemented with fibrolytic enzyme on dairy cows performance. 2- *In Situ* ruminal degradability of rations containing different roughages at two concentrate to roughage ratios. *Researcher*, 3(2): 21-30.
- 45- **Gaafar, H.M.A.**; Bassiouni, M.I.; M.F.E. Ali; A.A. Shitta and A.Sh.E. Shamas (2011). Effect of zinc methionine supplementation on productive performance of lactating Friesian cows. *Spanish Journal of Rural Development*, 1(1): 53-62.
- 46- **H.M.A. Gaafar**, E.M. Abdel Raouf, M.M. Bendary, G.H.A. Ghanem, and K.F.A. El Riedy. (2011). Effects of Dietary protein and energy levels on productive and reproductive performance of lactating buffaloes. *Iranian Journal of Animal Science*, 1(1): 57-63.
- 47- M.K. Mohsen, **H.M.A. Gaafar**, M.M. Khalafalla, A.A. Shitta, A.M. Yousif (2011). Effect of rumen protected choline supplementation on digestibility, rumen activity and milk yield in lactating Friesian cows. *Slovak J. Anim. Sci.*, 44(1): 13-20.
- 48- Mohsen M.K., El-Santiel G.S., **Gaafar H.M.A.**, El-Gendy H.M., El-Beltagi E.A. (2011). Nutritional evaluation of berseem 1- Effect of nitrogen fertilizer on yield and quality response of berseem. *Researcher*, 3(5): 21-24.
- 49- Mohsen M.K., El-Santiel G.S., **Gaafar H.M.A.**, El-Gendy H.M., El-Beltagi E.A. (2011). Nutritional evaluation of berseem 2- Effect of nitrogen fertilizer on berseem fed as silage to goats. *Researcher*, 3(5): 25-30.
- 50- Mohsen MK, El-Santiel GS, **Gaafar HMA**, El-Gendy HM, El-Beltagi EA (2011). Nutritional evaluation of berseem 3- Effect of nitrogen fertilizer on berseem fed as hay to goats. *Researcher*, 3(5): 31-36.
- 51- Mohsen M.K., El-Santiel G.S., **Gaafar H.M.A.**, El-Gendy H.M., El-Beltagi E.A. (2011). Nutritional evaluation of berseem. 4- Effect of phosphorus fertilizer on berseem fed as hay to goats. *Researcher*, 3(5): 37-42.
- 52- **Gaafar, H.M.A.**, Bassiouni M.I., El-Gendy M.E., Shehab El-Din M.T. (2011). Reproductive performance and economic efficiency of Rahmani and Finn and their crossbred ewes. *Researcher*, 3(5): 70-74.
- 53- **Gaafar, H.M.A.**, El-Gendy M.E., Bassiouni M.I., Shehab El-Din M.T. (2011). Pre- and post-weaning growth performance and economic efficiency of Rahmani and Finn lambs and their crosses. *Researcher*, 3(5): 75-79.
- 54- **Gaafar, H.M.A.**, El-Gendy M.E., Bassiouni M.I., Shamiah Sh.M., Halawa

- A.A., Abu El-Hamd M.A. (2011). Effect of heat stress on performance of dairy Friesian cows 1- Milk production and composition. *Researcher*, 3(5): 85-93.
- 55- **Gaafar, H.M.A.**, Abu El-Hamd M.A., El-Gendy M.E., Bassiouni M.I., Halawa A.A., Shamiah Sh.M. (2011). Effect of heat stress on performance of dairy Friesian cows 2- Reproductive performance. *Researcher*, 3(5): 94-100.
- 56- **H.M.A. Gaafar**, E.M. Abdel Raouf, M.M. Bendary, G.H.A. Ghanem, and K.F.A. El Riedy. (2011). Productive performance of lactating buffaloes fed rations containing sugar beet tops and corn silages. *Iranian Journal of Animal Science*, 1(1): 1157-123.
- 57- **Gaafar H.M.A.**, Abd El-Lateif A.I.A., Salwa B. Abd El-Hady (2011). Effect of replacement of berseem hay by ensiled and dried sweet potato vines on performance of growing rabbits. *Spanish Journal of Rural Development*, 1(2): 55-64,
- 58- **Gaafar H.M.A.**, A.M.A. Mohi-Eldin; K.F.A. El-Riedy and M.I. Bassiouni (2011). Productive and reproductive performances of lactating cows and buffaloes fed total mixed rations. *Philippine Journal of Veterinary and Animal Science*, 37(2): 131-142.
- 59- E.M. Abdel-Raouf, I.A. Abou-Selim, **H.M.A. Gaafar**, M.A.A. Abd El-Hady and H.R. Rashed (2011). Effect of udder massage of primiparous and multiparous buffaloes on milk yield and composition. *Livestock Research for Rural Development*, 23(10).
- 60- M.K. Mohsen, M.I. Bassiouni, **H.M.A. Gaafar**, M.H. El-Shafiey, Heba A.A. El-Sanafawy (2011). Effect of whole sunflower seeds supplementation on performance of zaraibi goats. *Slovak J. Anim. Sci.*, 44(4): 154-161.
- 61- **H.M.A. Gaafar**, A.I.A. Abd El-Lateif, Salwa B. Abd El-Hady (2011). Effect of replacement of berseem (*Trifolium alexandrinum* L.) hay by berseem silage on performance of growing rabbits. *Archiva Zootechnica* 14(4): 59-69.
- 62- Elmenofy, E.K.; M.I. Bssiouni; E.B. Belal; **H.M.A. Gaafar**; E.M. Abdel-Raouf and S.A. Mahmoud (2011). Improving the nutritive value of ensiled green rice straw 1- Fermentation characteristics and chemical composition. *Journal of Agricultural Research Kafr El-Sheikh University*, 37(4): 571-582.
- 63- **Gaafar H M A** (2012). Effect of contamination on cadmium and lead concentration in blood plasma and accumulation in body tissues of rabbits. *Researcher*, 4(5): 7-12.
- 64- **H. M. A. Gaafar**, Hafsa F. H. Youssf, M. T. Shehab El-Din (2012). Environmental factors affecting growth performance of growing lambs in Egypt. *Archiva Zootechnica*, 15(1): 15-29.
- 65- **H.M.A. Gaafar**, A.M.A. El-Sharkawy, K.F.A. El-Riedy, M.E. El-Gendy and R.M. Abou-Aiana (2012). Minerals status of growing Friesian calves fed different levels of poultry litter. *World Rural Observations*, 4(2): 31-37.

- 66- Elmenofy, E.K; M.I. Bassiouni; E.B. Belal; **H.M.A. Gaafar**; E.M. Abdel-Raouf and S.A. Mahmoud (2012). Improving the nutritive value of ensiled green rice straw 2- *In vitro* gas production. *Nature and Science*, 10(12): 86-91.
- 67- M.I. Bassiouni, M.F. Ali, M. M. Bendary, **H. M Gaafar** and A. Sh. Shamas (2013). Effect of premix and seaweed additives on minerals status of lactating Friesian cows. *International Journal of Advanced Research*, 1(1): 33-41.
- 68- El-Gendy, M.E.; K.F. El-Riedy; Hanaa S. Saker and **H.M. Gaafar** (2013). Effect of supplemented rumen protected methionine and/or choline on performance of zaraibi goats: 1. Productive performance of lactating goats. *J. Animal and Poultry Prod., Mansoura Univ.*, 4(2): 57-67.
- 69- El-Gendy, M.E.; K.F. El-Riedy; Hanaa S. Saker and **H.M. Gaafar** (2013). Effect of supplemented rumen protected methionine and/or choline on performance of zaraibi goats: 2. Productive performance of kids suckled dam colostrum. *J. Animal and Poultry Prod., Mansoura Univ.*, 4(2): 69-78.
- 70- Bendary, M.M.; M.I. Bassiouni, M.F. Ali, **H.M. Gaafar** and A.Sh. Shamas (2013). Effect of premix and seaweed additives on productive performance of lactating Friesian cows. *International Research Journal of Agricultural Sciences*, 1(1): 11-18.
- 71- Ragab, Ayat A., K.F.A. El-Reidy, **H.M.A. Gaafar** (2013). Effect of pumpkin (*Cucurbita moschata*) and black (*Nigella sativa*) seeds oils on performance of rabbits: 1- Growth performance, blood hematology and carcass traits of growing rabbits. *J. Animal and Poultry Prod., Mansoura Univ.*, 4(7): 381-393.
- 72- Ragab, Ayat A., K.F.A. El-Reidy, **H.M.A. Gaafar** (2013). Effect of pumpkin (*Cucurbita moschata*) and black (*Nigella sativa*) seeds oils on performance of rabbits: 2- Productive and reproductive performance of does and their offspring. *J. Agric. Res. Kafr El-Sheikh Univ.*, 39(3): 346-362.
- 73- Mohsen, M.K.; E.M. Abdel-Raouf; **H.M.A. Gaafar** and A.M. Yousif (2015). Nutritional evaluation of sprouted barley grains on agricultural by-products on performance of growing New Zealand White rabbits. *Nat. Sci.*, 13(10): 35-45.
- 74- Ragab, Ayat A.; K.F.A. El-Reidy and **H.M.A. Gaafar** (2016). Effect of diet supplemented with pumpkin (*cucurbita moschata*) and black seed (*nigella sativa*) oils on performance of rabbits: 3- Productive and reproductive traits, puberty, sexual activity and semen characteristics of new zealand white male rabbits. *Egypt. J. Agric. Res.*, 94 (1): 149-169.