



REFERENCES



6-REFERENCES

- Abd El-Aziz, M. M. (1998):** Crossbreeding between Al – Gabali and New Zealand White rabbits in north coast-belt of the Egyptian western desert. Ph. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- Abd El-Aziz, M. M., Afifi, E. A., Bedier, Nayera, Z., Azamel, A. A. and Khalil, M. H. (2002):** Genetic evaluation of milk production and litter weight traits in Gabali, New Zealand White rabbits and their crosses in a newly reclaimed area of Egypt. 3rd Sci., Con., on Rabbit Production in Hot Climates, 8-11 Oct: 103-116.
- Abd El-Galil, K. and Khidr, R. E. (2000):** Utilization of acacia saligna in feeding growing rabbits under the desert and newly reclaimed arwas. . Egypt. Poult. Sci. Vol 20 (III) Sept: 497-515.
- Abd EL-Ghany, A. M., Ahmed, E. G. and Hassan, N.S. (2000a):** Crossbreeding genetic parameters of post weaning growth traits of the Egyptian acclimatised New Zealand White and Native Baladi Black Rabbits. 7th World Rabbit Congress., 317-323.
- Abd EL-Ghany, A. M; Hassan, N. S. and Amin, A. A. (2000b):** Heterosis, direct and maternal abilities of post – weaning daily gain in weight traits of two

Egyptian native breeds on account of crossing with New Zealand White rabbits. . 7th World Rabbit Congress., 325-332.

Abd El-Rahim, M.I; El-Gaafary, M.N; Tawfeek, M.I. and Mohamed, H.E. (1991): Growth, digestibility, blood constituents and reproductive efficiency of rabbits fed rations containing Cassava root meal. Egyptian Journal of Rabbit Science,,1 (1): 61-72.

Abd El-Rahim, M.I; Tawfeek, M.I; Ahmed, S.S. and Amin, R.S. (1994): Using some of unusual waste vestibule oils as fat supplement in growing rabbit rations. Proceedings of the first international Conference on Rabbit Production in Hot Climate, 6-8 September, Cairo, Egypt.

Abd El-Rahim, M.I; El-Gaafary, M.N; Tawfeek, M.I; El-Kelawy, H.M. and Amin, R.S. (1995): Effect of dietary supplementation with different levels of Zinc on growth performance, nutrients digestibility, minerals metabolism, blood constituents, organs histophology and reproductive efficiency in NZW rabbits. Egyptian Journal of Rabbit Science, 5 (1): 11-31.

Abd El-Raouf, H.M. (1993): Genetic studies for some economic traits in rabbits. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.

Abdella, M.M; Afifi, E.A; El-Sayaad, G.A.E. and El-Madhagi, K.S.S. (1990): Effect of dietary protein level, fiber level and other factors on rabbits performance. I. Productive performance of rabbit doe's. *Annals of Agric. Sci., Moshtohor*, 28 (4): 2101-2112, Egypt.

Abou Khadiga, G. S. M. (2004): Performance of the Spanish synthetic lines (V) and the local Baladi Black rabbits and their crosses under Egyptian conditions. M. Sc. Thesis, Faculty of Agriculture, Kafr El-Sheikh, Tanta University, Egypt

About-Ela, S., El-Hindawy, M., Tawfik, E. S. and Attia, A. I. (2000): Evaluation date pits as a wast product of food industries in feeding NZW rabbits. 7th World Rabbit Congress.,57-61.

Afifi, E. A. (1997): Technical report on the project entitled " Production of purebred and crossbred parental stock of rabbits to be distributed to small scale breeders in Qaluobia Governorate " Fac. Agric., Moshtohor and Council for Research and Extension, Ministry of Agriculture, Egypt, p 13.

Afifi, E. A. and Emara, M. E. A. (1984): Litter weight in local Egyptian and exotic breeds of rabbits and their crosses. Proceeding of the 3th World Rabbits Congress, 4-8 April 1984, Rome, Italy, World Rabbit Science Association, 1:126.

- Affi, E. A. and Emara, M. E. A. (1987):** Litter size in local Egyptian and exotic breeds of rabbits and their crosses. Proc. 3rd World rabbit Congress, 4-8 April, Rome, Italy. Vol., Q: 126-135.
- Affi, E. A. and Emara, M. E. (1990):** Breed group and environmental factors influencing post – weaning daily gain in weight of purebred and crossbred rabbits. J. Appl. Rabbit Res. 13:114-118.
- Affi, E. A. and Khalil, M. H. (1989):** Observations on purebred and crossbred litters of Giza White and Grey Giant Flander rabbits in Egypt. J. Applied Rabbit Res., 12: 273-277.
- Affi, E. A., Galal, E. S. E., El-Tawil, E. A. and El-Khishin, (1976a).** Litter weight in three breeds of rabbits and their crosses. Egypt. J. Anim. Prod., 16:99.
- Affi, E. A., Galal, E. S. E., El-Tawil, E. A. and El-Khishin, (1976b).** Litter size at birth and at weaning in three breeds of rabbits and their crosses. Egypt. J. Anim. Prod., 16:109.
- Affi, E. A., Abdella, M. M., El-Sarafy, A. M. and El-Sayaad, G. A. E. (1982):** Litter traits as affected by feeding urea, breed group and other non-genetic factors. 7th International Congress for Statistics, computer science, social Demographic Research, Ain Shams Univ., Cario, Egypt.

- Afifi, E. A., Kadry, A. E. H. and Khalil, M. H. (1985):** Factors influencing preweaning body weight in rabbits. *Al-Azhar J. Agric. Res.* 3:101-108.
- Afifi, E. A., Khalil, M. H. and Emara, M. E. (1989):** Effects on maternal performance and litter preweaning traits in doe rabbits. *J. Anim. Breed. Genet.* 106: 358-362.
- Afifi, E. A., Abdella, M. M., El-Sayaad, G. A.E. and El-Madhagi, K.S.S. (1990):** Effect of dietary protein level, fiber level and other factors on rabbits performance. II. Growth traits, post-weaning mortality, feed utilization and nutrients digestibility of growing rabbits. *Annals of Agric. Sci., Moshtohor*, 28 (4): 2115-2140. Zagazig Univ., Egypt.
- Afifi, E. A; Yamani, K. A; Marai, I. F. M. and El-Maghawry, A. M. (1992):** Environmental and genetic aspects of litter traits in New Zealand White and Californian rabbits under the Egyptian conditions. *J. Appl. Rabbit Res.*, 15: 335-351.
- Afifi, E. A; Khalil, M. H; Khadr, A.F. and Youssef, Y. M. K. (1994):** Heterosis, maternal and direct effects for post-weaning growth traits and carcass performance in rabbit crosses. *J. Anim, Breed. Genet.* 111 (2): 138-147.
- Ahmed, E. G. A. (1997):** Productive performance of different exotic strains of rabbits. Ph. D. Thesis,

Faculty of Agriculture, Ismailia, Suez Canal University, Egypt.

- Ahmed, S. S; El-Gendy, K. M; Ibrahim, H; Rashwan, A. A. and Tawfeek, M. I. (1994):** Growth performance, digestibility, carcass traits and some physiological aspects of growing rabbits fed Tomato Pomace as a substitution for Alfalfa meal. *Egyptian J. of Rabbit Sci.*, 4 (1): 1-13.
- Ali, Mervat, A., Tag El-Din, T. H. and Soliman, E. M. (1999):** Effect of sweet potato tops or roots in growing rabbit diets on growth performance, digestibility, carcass traits and economic. *Egyptian Journal of Rabbit Science*, 9 (1): 13-23.
- Allain, D., Rochambeau, H. DE., Thebault, R.G. and Vrillon, J.L. (1996):** Angora rabbit wool production: Male and female heritabilities and genetic correlations for wool quantity and different fleece characteristics. *Proc. 6th World Rabbit Congress, Toulouse, Vol. 1.* 309-312.
- Amber, K h. and Gad, Sawsan, M. (2001):** Effect of using high levels of berseem hay (*trifolium Alexandrinum*) in rabbit diets on performance, feeding values, caecotropes, characteristics of gastrointestinal tract and relative revenue. *Egyptian Journal of Rabbit* 11(1):130-136.

- Anke, M; Grün, M; Partschefeld, M. and Groppe, B. (1978):** In " Trace element metabolism in man and Animals-TEMA3" (M. Kirchgessner, ed.). p. 230. Institut für Ernährungsphysiologie, Technische Universität. München, Freising, Weihenstephan.
- Ayyat, M. S; Anous, M. R; Sadek, M. H. (1994):** Genetic parameters for meat production in rabbit. 1- Non carcass components. World Rabbit Sci., 2(3), 93-99.
- Ayyat, M. S; Mara, I. F. M and El-Sayiad, Gh. A. (1995):** Genetic and non genetic factors affecting milk production and pre-weaning litter traits of New Zealand White does under Egyptian conditions. World Rabbit Sci., 3 (3): 119-124.
- Ayyat, M. S. and Mara, I. F. M (1998):** Evaluation of application of the intensive rabbit production system under the sub-tropical conditions of Egypt. World Rabbit Science, 6(1), 213-217.
- Barnes, B. and Bradley, S.G. (1994).** Planning for a healthy baby: Essential reading for all future parents. Vermillion, London, UK.
- Baselga, M. and Garcia, M. L. (2002):** Evaluating the response to selection in meat rabbit programmes. 3rd Sci., Con., on Rabbit Production in Hot Climates, 8-11 Oct: 1-10.

- Baselga, M., Blasco, A. and Estany, J. (1984):** Indice de selection de caracteres reproductivos con infomacion variable. Proceeding of the 3rd World Rabbit Congress, Roma, 1:62-65.
- Baselga, M; Gomez, E; Cirfe, P. and Camcho, J. (1992):** Genetic diversity of litter size traits between parities in rabbits. *J. Appl. Rabbit Res.*, 15: 198-205.
- Bassuny, S. M. (1991):** The effect of copper sulfate supplement on rabbit performance under Egyptian conditions. *J. Appl. Rabbit Res.*, 14, 03.
- Bassuny, S. M., Sarhan, M. A. and El-Aaawy, M. M. (1999):** Nutritional studies on some green forages in Egypt. 6. Effect of partial replacement of concentrates by fodder beet leaves and roots growing rabbits diets. *Egyptian Journal of Rabbit Science*,.9 (2): 225-227.
- Bayomy, M. F. and Taie, H. T. (1991):** Effects of fasting refeeding and restricted feeding on the growing rabbit. 1- Influence on body and or gain weights nucleic acids and protein contents. *Egyptian J. of Rabbit Sci.*, 1 (2): 159-171.
- Berg, P. (1993):** Variation between and within populations of mink. II. Skin and fur characteristics. *A.B.A.*, Vol., 62, No., 1476.

- Berg, P. and Lohi, O. (1991):** Hair length and skin thickness in mink. Genetic and Genetic and environmental effects. A.B.A., Vol., 60, No., 1668.
- Bharat, B. and Ahlawat, S.P.S. (1999).** Estimates of genetic parameters for post-weaning body weights in New Zealand White rabbits reared under agroclimatic conditions of sikkim. Indian J. of Anim. Sci., **69**: 511-513.
- Blasco, A; Baselga, M. and Garcia, F. (1983):** Analysis of productive characters in meat production rabbits. I. Growth characters. Archivos de Zootecnia, 32 (123): 1-18.
- Blasco, A; Santacreu, M. A; Thompson, R. and Haley, C. S. (1992):** Estimation of genetic parameters for ovulation rate, prenatal survival and litter size in rabbits from an elliptical selection experiment. 43th Annual meeting of the European Association for Animal Production, Madrid 14-17 September 1992, Spain.
- Boldman, K. G., Kriese, L. A., Van Vleck, L. D., Van Tassell, C. P. and Kachman, S. D. (1995).** A manual for use of MTDFREML A set of programs to obtain estimates of variances and covariances [DRAFT]. U.S. Department of Agriculture, Agriculture Research Service, USA.

- Bremmer, I., Young, B. W. and Mills, C. F. (1976).** Protective effects of zinc supplementation against copper toxicity in sheep. *Br. J. Nutr*, 36:551.
- Brun, J. M. and Ouhayoun, J. (1989):** Growth performance and carcass traits in three strains of rabbit and their two-way crosses. *A. B. A. Vol.*, 58, No., 3165.
- Bujarbaruah, K. M. and Das, A. (1996):** Research and development of rabbit production in north eastern hills region of india. 6th World Rabbit Congress., 319-322.
- Burns, R. H; Jojnston, A; Hamilton, J. W; MC-Colloch, R. J; Duncan, W. E; and Fisk, H. G. (1964).** Minerals in domestic wools. *J. Anim. Sci.* 23: 5-11.
- Campbell, G. D; Steinberg, M.H. and Bower, J. D. (1975):** Ascorbic acid-induced hemolysis in G-6-PD deficiency. *Ann. Intern. Med.* 82: 810.
- Castellini, C. and Panella, F. (1988):** Heritability of pre and post-weaning weight in rabbits. 4th World Rabbit Cong., Budapest, Hungary, 10-14, October, 1988.
- Chiericato, G. M., Rizzi, C. and Rostellato, V. (1996):** Effect of genotype and environmental conditions on the productive and slaughtering performance of growing meat rabbits. 6th World Rabbit Congress., 147-148.

- Choiewa, R. (1978):** The effect of heritability of production characters on the effectiveness of measures in a group of Arctic foxes. *A. B. A.*, Vol., 48, No. 1307.
- Choiewa, R. and Sulik, M. (1998):** Traits of the chinchilla coat structure dependent on season and age. *A. B. A.*, Vol., 67, No. 1483.
- Cifre, J; Baselga, M. and Gomes, E. A. (1994):** Evaluation of response to selection effect of freezing on weaning weight and post-weaning daily gain in rabbits. Proceeding of the first International Conference on Rabbit Production in Hot Climate, 6-8 September, Cairo, Egypt.
- Cifre, J., Baselga, M., Garcia-Ximenez, F. and Vicente, J. S. (1998a):** Performance of a hyperprolific rabbit line II. Maternal and growth performances. *J. Anim. Breed. Genet.* 115, 139-147.
- Cifre, J., Baselga, M., Garcia-Ximenez, F. and Vicente, J. S. (1998b):** Performance of a hyperprolific rabbit line I. Litter size traits. *J. Anim. Breed. Genet.* 115, 131-138.
- Cousins, J. (1985):** Absorption, transport, and hepatic metabolism of copper and zinc: special reference to metallothionein and ceruloplasmin. *Physiol. Rev.* 65: 238-309.

- Daader, A. H., Gabr, H. A., Khader, A. M. F. and Seleem, T. S. T. (2002):** Fertility traits in different breeds of rabbit does as affected by coitus frequency and remitting interval. 3rd Sci. Con. On Rabbit Production in Hot Climates, 8-11 Oct:253-262.
- Danks, D. M. (1988):** Copper deficiency in humans. *Annu. Rev. Nutr.* 8: 235-257.
- De Paulo, M. G; Ponles, J. R; Ferraz, J. B. S. and Eler, J. P. (1996):** Breed and some non-genetic effects on growth of Californian and New Zealand White rabbits raised in south eastern Brazil. 6th World Rabbit Congress. Toulouse, France, V2, 269-272.
- Dickerson, G. E. (1969):** Techniques for research in quantitative genetic techniques and procedures in Animal Science Research, American Society of Animal Science, Champaign, IL.
- Dickerson, G. E. (1973):** Inbreeding and heterosis in animals. In: *Proc. Animal Breedin and Genetics Symp. In honor of Dr Jay L. Lush.* American Society of Animal Science. pp. 54-77.
- Dickerson, G. E. (1992):** Manual for evaluation of breeds and crosses of domestic animals. Publications Division, FAO, Rome, Italy.

- Doyle, J. J. and Pfander, W. H. (1975):** Interactions of cadmium with copper, iron, and manganese in ovine tissues. *J. Nutr.* 105: 599.
- Drozd, A. (1969):** Chinchillas, exotic fur animals. *A. B. A.*, Vol., 40, No. 2176.
- Eady, S. J. and Prayaga, K. C. (2000):** Rabbit farming for meat production in Australia: Profitability in the industry and economic values for production traits. *World Rabbit Sci.*, 8 A, 361-367.
- Einarsson, E. J. (1988):** Selection for litter size in mink. IV. Effect on post-weaning growth and fur characteristics. *J. of Agric., Sci.*, 2 (1): 1-20.
- El-Darawany, A. A; Farghaly, H. M; Yamani, K. A. and Marai, I. F. M. (1994):** Preliminary studies on the effects of using drainage water for drinking on productive traits of rabbits in Egypt. Proceeding of the first International Conference on Rabbit Production in Hot Climate, 6-8 September, Cairo, Egypt.
- El-Deghadi, A. S. (1996):** Genetic and phenotypic analysis for fur traits in rabbits. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- El-Desoki, A. E. M. (1991):** Study of the effects of some genetic and environmental factors affecting meat yield from some foreign and local breeds of rabbits

and their crosses. M. Sci. Thesis Fac., Agric, Mansoura Univ., Egypt.

El-Fiky, F. A., Aboul-Hassan, M. A., Attalah, G. E. and Bata, S. S. (2001): Selection indices for improving body weight in Baladi Red rabbit. Egypt. Poult. Sci. Vol 21 (II): 305-318.

El- Gaafary, M. N; Tawfeek, M. I. and Abd El-Hamid,, M. W. (1991): Effect of human chorionic gonadotropin injection on pre- and post sexual maturity in rabbits. Egyptian J. of Rabbits Sci., 1(1): 35-46.

El-Gaafary, M. N; Rashwan, A. A; El-Kerdawy, D. M. A. and Yamani, K. A. (1992): Effect of feeding pelleted diet supplement with profiotic (Lacto-Sacc) on digestibility growth performance, blood constituents, semen characteristics and reproductive traits of rabbits. Egyptian J. of Rabbit Sci., 2 (2): 95-105.

El-Gaafary, M. N; Marai, I. F. M; Yamanui, K. A; Abd-Allah, F. R; Amin, R. S. and El-Kelawy, H. M. E. (1994): Growth performance and reproductive efficiency of weaned NZW rabbits as affected by HCG indication. Proceeding of the First International Conference on Rabbit Production in Hot Climate, 6-8 September, Cairo, Egypt.

- El-Hindawy, M. M; Yamani, K. A. and Eskander, E. G.**
(1992): Growth performance, carcass traits and digestibility of rabbits as affected by breed and form of diet under Egyptian environmental conditions. *Egyptian J. Rabbit Sci.*, 2 (2): 185-196.
- El-Hindawy, M. M; Yamani, K. A. and Tawfeek, M. I.**
(1993): Effect of probiotic (Lacto-Sacc) in diets with different protein levels on growth performance, digestibility and some carcass aspects of growing rabbits. *Egyptian J. Rabbit Sci.*, 3 (1): 13-28.
- El-Hindawy, M. M; Yamani, K. A. and Tawfeek, M. I.**
(1994): Performance of weaning rabbits as affected by energy level and inclusion of biobiotics in the diet. *Proceeding of the First International Conference on Rabbit Production in Hot Climate*, 6-8 September, Cairo, Egypt.
- El-Kelawy, H. M.** (1997): Effects of HGG injection and breed on reproductive performance of rabbits under Egyptian conditions. *World Rabbit Science*, 5(2), 61-64.
- El-Kelawy, H. M., Abd El-Rahim, M. I., Sarhan, M.A. and Amin, Rawia, S.** (2000): Feed intake, reproductive performance, digestibility and blood metabolites in adult NZW rabbits fed diets containing raw or autoclaved jackbean seeds (*Canavalia*

Ensiformis, L.). Egyptian Journal of Rabbit Science,.10 (1) 157-173.

El-Kerdawy, D. M. A; Rashwan, A. A; Ibrahim, H. and El-Gendy, K. M. (1992): Digestibility, growth performance, carcass traits and some physiological aspects of growing New Zealand White rabbits as affected by partial substitution of concentrates with carrot-tops hay and feeding time. Egyptian Journal of Rabbit Science,.2 (1): 61-71.

El-Kerdawy, D. M. A; Ahmed, S. S. and Ibrahim, H. (1993): Effect of feeding layers manure on growth, slaughter traits, physiological aspects and nutrients digestibility in meat rabbits. Egyptian Journal of Rabbit Science,.3 (1): 55-71.

El-Kholy, M. S. H. (1995): Effect of including grain silos by-production the diet on the performance and carcass traits of growing rabbits. Egyptian Journal of Rabbit Science, 5 (1): 1-10.

El-Madhagi, K. S. S. (1990): Productive efficiency in a flock of rabbits. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt. Egyptian Journal of Rabbit Science, 3 (1): 91-102.

El-Maghawry, A. M. (1990). Genetic and environmental factors affecting performance of broiler rabbits. Ph.

D. Thesis, Fac. of Agric., Zagazig Univ., Zagazig,
Egypt.

El-Maghawry, A. M. (1993). Post-weaning daily gain and mortality rate in New Zealand White and Californian rabbits, as affected by some genetic and environmental factors, under Egyptian conditions.

EL-Maghawry, A. M. (1997): Evaluation of the performance of three Foreign rabbit breeds under Egyptian conditions. 2. Litter size and related traits. Egyptian Journal of Rabbit Science, 7 (2): 95-106.

El-Maghawry, A. M. (1999): Genetic effects on some doe productivity in New Zealand White and Californian rabbits raised in Egypt. Egyptian Journal of Rabbit Science, 9 (2): 179-195.

El-Maghawry, A. M., Yamani, K. A. and Marai, I. F. M. (1988): A preliminary study on performance of some productive traits in New Zealand White and Californian rabbits, under Egyptian environments. Proceeding of the 4th World Rabbits Congress, Budapest, Hungary. World Rabbit Association, Vol. 1: 264-275.

El-Maghawry, A. M; Tawfeek, M. I. and Habeeb, A. A. (1993). Growth liver and Kidney functions and carcass traits of rabbits as affected by supplementation with bospro, under conditions of Egypt. Egyptian J. of Rabbit Sci., 3(1): 1-11.0

- El-Maghawry, A. M., Ahmed, Soad, S., Yamani, K. A. and Radwan, H. (1999):** Some reproductive and productive traits of New Zealand White, Rex rabbits and their crosses. *Egyptian Journal of Rabbit Science*, 9 (2): 159-177.
- El-Mahdy, M. R. and Karousa, M. M. (1995):** Social behavior, growth performance and carcass traits in growing New Zealand White, water source and watering system. *Egyptian J. of Rabbit Sci.*, 5 (1): 65-76.
- El-Raffa, A. M. (1994).** Some factors affecting economical productive and reproductive traits in rabbits. Ph. D. Thesis, Fac. Of Agric., Alex. Univ., Alexandria, Egypt.
- El-Raffa, A. M. (2000):** Animal model evaluation of V line rabbits raised under Egyptian conditions. *Egyptian Journal of Rabbit Science*, 10(1):75-82.
- El-Raffa, A. M., Shebl, M. K., Kosba, A. and Khalil, M. H.(1997):** Sire and dam transmitting abilities for litter size traits in three lines of rabbits raised in high intensive system of production. *Egyptian Journal of Rabbit Science*, 7(2), 67-79.
- El-Sayaad, G. A; Luick, B. R. and Cheeke, P. R. (1992):** Preliminary evaluation seed screening of orchard grass as a feed staff for rabbits. *Egyptian Journal of Rabbit Science*, 2 (1): 73-80.

- El-Sayiad, G. H. A., Yamani, K. A. O. and Barakat, A. E. A. (1993a):** Some genetic and non –genetic factors affective New Zealand White and Californian rabbit doe traits in Egypt. *Egyptian Journal of Rabbit Science*, 3 (2): 129-139.
- El-Sayiad, G. H. A; Yamani, K. A. O; Tawfeek, M. I. and Yassin, H. M. (1993b):** Some traits of doe and young rabbits as affected by breed, parity and diet supplementation, under Egyptian conditions. *Egyptian Journal of Rabbit Science*,.3 (1): 81-90.
- Emara, M. E. A. (1982):** Effect of crossbreeding on some productive traits in rabbits. Ph. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- Enab, A. A. (2001):** Genetic evaluation of multi – trait selection indices for overall economic improvement in rabbit breeding programs. *Egypt. Poult. Sci.* Vol 21 (1): 221-236.
- Enab, A. A., El-Weshahy, O. A. and Abdou, F. H. (2000):** Genetic analysis of some economic traits in rabbits. . *Egyptian Journal of Rabbit Science*,.10 (2): 327-339.
- Estany, J., Baselga, M., Blasco, A. and Camacho, J. (1989):** Mixed model methodology for the estimation of genetic response to selection in litter size of rabbits. *Livest. Prod. Sci.* 21:67-75.

- Estany, J., Camacho, J., Baselga, M. and Blasco, A. (1992):** Selection response of growth rate in rabbits for meat production. *Genet. Sel. Evol.* 24: 527-537.
- Evans, G. W. (1973):** Copper homeostasis in the mammalian system. *Physiol. Rev.* 53: 535-570.
- Falconer, D. S. (1989):** Introduction to quantitative genetics. Third Edition, Longman, London, UK.
- Falconer, D. S. and Mackay, F. C. (1996):** Introduction to quantitative genetics. " 4th edition " Longman Group Ltd, England.
- Farag, R. S; El-Assar, S. T. and Abdel-Rahim, E. A. (1980).** Hair mineral content in relation to colour and sex of Egyptian Badawy goats. *Egypt. J. Anim. Prod.* 20 (1): 1-6.
- Farghaly, H. M. (1996):** Analysis of incidence of pre and post mature gestation in rabbit population. Proceeding of th 6th World Rabbits Congress. Toulouse, France: 273-277.
- Farghaly, H. M and El-Darawany, A. A. (1994):** Genetic and non-genetic factors affecting reproductive performance in exotic rabbits breeds under Egyptian conditions. The First International Conference on Rabbit Production in Hot Climates, Cairo, 6-8, September, 253-261.

- Farid A., Afifi E.A., Khalil, M. H. and Gad, H. A. (2000):** Estimation of doe breeding values for litter traits of three standard breeds of rabbits raised under commercial intensive system of production in Egypt. *Egyptian Journal of Rabbit Science*, **10(2)**, 307-325.
- Ferraz, J. B. and Johnson, R.K. (1993):** Animal Model estimation of genetic parameters and response to selection for litter size and weight, growth, and backfat in closed seedstock populations of large White and Landrace swine. *J. Anim. Sci.*, **71 (4)**: 850-858.
- Ferraz, J. B. S. and Eler, J. P. (1996):** Comparison of Animal Models for estimation of (CO) variance components and genetic parameters of reproductive, growth and slaughter traits of Californian and New Zealand rabbits raised under tropical conditions. *6th World Rabbit Congress*, 279-283.
- Ferraz, J. B. S., Johnson, R. K. and Eler, J. P. (1991a):** Genetic parameters for reproductive traits of rabbits. *J. Appl. Rabbit Res.* **14**: 166-171.
- Ferraz, J. B. S., Johnson, R. K. and Eler, J. P. (1991b):** Genetic parameters for growth and carcass traits of rabbits. *J. Appl. Rabbit Res.* **14**: 187-192.
- Ferraz, J. B. S., Johnson, R.K. and Vleck, Van, L.D. (1992):** Estimation of genetic trend and genetic parameters for reproductive and growth traits of

rabbits raised in subtropics with Animal Models. J. Appl. Rabbit Res. 15:131-142.

- Fettal, M; Mor, B. and Benachour, H. (1994):** Connaissance des performances de croissance post-sevrage de lapereaux de population locale, elevés dans les conditions du terrain. The First International Conference on Rabbit Production in Hot Climates, Cairo, 6-8, September.
- Fijal, J., Kowalska, D., Bielanski, P. and Zajac, J. (2000):** Effect of rabbit management conditions on performance. . 7th World Rabbit Congress.,585-589.
- Folistowicz, A., Wierzbicki, H., Zwolińska-Bartczak, I. and Żuk, B. (1999):** Genetic parameters of conformation and coat traits in fox (*Vulpes vulpes*) population. A.B.A., Vol., 68, No. 943.
- Firat, U. B. and Bozkurt, H. H. (2001):** Relations between total thickness of hair and thickness of medulla according to sex in Chinchilla and rabbit. A.B.A., Vol., 70, No. 250.
- Gad, S. M. (1998):** Evaluation of growth and production performance of Al-Gabali rabbits and their crosses under semi-arid conditions. M.Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.

- Galal, E. S. E. and Khalil, M. H. (1994):** Development of rabbit industry in Egypt. The First International Conference on Rabbit Production in Hot Climates, Cairo, 6-8, September, 43-55.
- Garcia, F; Blasco, A; Baselga, M. and Salvador, A. (1980):** Genetic analysis of some reproductive traits in meat rabbits. 2nd World Rabbit Congress, April, 1980, Barcelona, Spain.
- Garcia, F; Blasco, A; Baselga, M. and Deltoro, J. (1982):** Genetic analysis of some reproductive traits in meat rabbits. II. Ponderal traits. Proceeding of 2nd World Congress on Genetics Applied to Livestock Production, 4-8 October, 1982, Madrid, Spain. 7, 575-579.
- Garcia, M. L., Baselga, M., Vicente, J. S. and Lavara, R. (2000):** Selection response on reproductive characters in a maternal line of rabbits. 7th World Rabbit Congress.,
- Garcia-Ximenez, F. and Vicente, J. S., Cifre, J. and Baselga, M. (1996):** Foundation of a maternal rabbit line using hysterectomy and embryo cry preservation. In: Proc. 6th World Rabbit Congress, Toulouse, Vol. 2, pp. 289-292.
- Gengler, N. and Misztal, I. (1996):** Approximation for multiple trait Animal Models with missing data by canonical transformation. J. Dairy Sci., 79: 317-328.

- George, A. and Ng, E. (1984).** A new release of SPARSPAK: the waterloo sparse matrix package. Mimeo, Dept. Computer Sci., Univ. Waterloo, Waterloo, On., Canada (Agric. Res. Serv., USA, 1995).
- Gill, J. L. and Jensen, E. L. (1968):** Probability of obtained negative estimates of heritabilities. *Biometrics*, 24: 517-526.
- Gippert, T., Bersenyi, A., Szabo, L. And Farkas, Z. S. (1996):** Development of novel feed concentrates supplemented with salinomycin and Lacto-Sacc for growing rabbit nutrition in small scale farms. 6th World Rabbit Congress., 187-189.
- Gomez, E. A., Rafel, O., Ramon, J. and Baselga, M. (1996):** A genetic study of a line selected on litter size at weaning . 6th World Rabbit Congress, Toulouse, 2:289-2929.
- Gomez, E. A., Baselga, M., Rafel, O., Garcia, M. L. and Ramon, J. (1999a):** Selection, diffusion and performances of six Spanish meat rabbit. 2nd International Conference on Rabbit Production in Hot Climates, Adana, Turkey, 147-152.
- Gomez, E. A., Rafel, O., Ramon, J. and Baselga, M. (1999b):** Feeding efficiency in crossbreeding among three of the strains selected in Spain. 2nd International

Conference on Rabbit Production in Hot Climates,
Adana, Turkey, 153-162.

- Gomez, E. A., Rafel, O., and Ramon, J. (2000):** Preliminary genetic analysis of caldes line: a selection experiment for a global objective. 7th World Rabbit Congress., 417-423.
- Grace, N. D. (1983):** Amount and distribution of mineral elements associated with fleece-free empty body weight gains in the grazing sheep. N. Z. J. Agric. Res. 26:59-70.
- Grace, N. D. and Sumner, R. M. W. (1986):** Effect of pasture allowance, season and breed on the mineral content and rate of mineral uptake by wool. N. Z. J. Agric. Res. 29:223-230.
- Granat, J. and Zelink, J. (1972):** Fertility and growth in New Zealand White and Californian rabbits. A. B. A. Vol., 42 No., 333.
- Grandi, A. and Stefanetti, P. (1987):** The performance of New Zealand White, Californian and Blue Vienna rabbits. A. B. A. Vol., 55 No., 6496.
- Gupta, H. K., Yadav, B. P. S., Gupta, J. J. and Bujarbaruah, K. M. (1996):** Influence of feeding green rice bean (*Vigna Umbellata*, Thumb) on growth and feed conversion efficiency in meat rabbits in the

eastern Himalayan region of India. 6th World Rabbit Congress., 195-214.

Hafez, E. (1968): Adaptation of domestic animals. Lea & Febiger. Philadelphia.

Hall, A. C., Young, B. W. and Bremmer, I. (1979). Intestinal metallothionin and the mutual antagonism between copper and zinc in the rat. J. Inorg. Biochem., 11:57.

Halsted, J. A; Ronaghy, H. A; Abadi, P; Haghshenass, M; Amirhakemi, G. H; Barakat, R. M. and Ranhold, J. G. (1972): Am. J. Med. 53, 277.

Hanafi, M. S. and Iraqi, M. M. (2001): Evaluation of purebreds, heterosis, combining abilities, maternal and sex – linked effects for some productive and reproductive traits in chickens. Second inter. Conf. On Animal Prod. & Health in Semi-Arid Areas 4-6 Sept., 545-555.

Hanna, M. F. S. (1992): Studies on some productive traits in rabbit. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.

Hart, E. B. Steenbock, H., Waddell, J. and Elvehjem, C.A. (1928). Iron in nutrition, VII. Copper as a supplement to iron for hemoglobin building in the rat. J. Biol Chem., 77:797.

- Hassan, A. M. M. (1993):** Productive performance of the rabbit does. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- Hassan, N. S. H. (1988):** Reproduction of New Zealand White rabbits. M. Sc. Thesis, Faculty of Agriculture, Cairo, University, Egypt.
- Hassan, N. S. H. (1995):** A study on the prediction of doe rabbits transmitting ability. Ph. D. Thesis Fac. of Agric., Ain Shams Univ., Cairo, Egypt.
- Hassan, N. S. H; El-Tawil, E. A; Shahin, K. A. and Hatem, A. M. (1994):** Performance of New Zealand White does as affected by different environmental factors. The international Conference on Rabbit Production in Hot Climate, Cairo, Egypt 271-27.
- Healy, W. B. and Zieleman, A. M. (1966):** Macro and micro elements content of New Zealand wool. N. Z. J. Agric. Res. 9: 1073-1078.
- Healy, W. B; Bate, L. C. and Ludwing, T. G. (1964):** Micro elements content of wool from twin withers raised on two soils as determined by neutron activation analysis. N. Z. J. Agric. Res. 7: 603-610.
- Henderson, C. R. (1984).** Application of Linear Model in Animal Breeding. University of Guelph Press, Guelph, Canada.

- Hermes, I. H., Ahmed, B. M., Salah, M. S. and Al-Homidian, A. A. (1999):** Growth performance, nutrients utilization and carcass traits of growth Californian rabbits raised under different ambient temperatures. *Egyptian Journal of Rabbit Science*, 9 (2): 117-138.
- Hill, C. H; Martone, G; Payne, W. L. and Barber, C. W. (1963):** In vivo interaction of cadmium with copper, zinc and iron. *J. Nutr.* 80: 227.
- Hill, W. G. (1982):** Dominance and epistasis as components of heterosis. *Z. Tierüchtg. Züchtungsbiol.* 99: 161-168.
- Hilmy, A. F. (1991):** Some productive aspects in rabbits. Ph. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- Hinkelmann, K. (1969):** Estimation of heritability from experiments with related dams. *Biometrics*, 25: 755-766.
- Hinkelmann, K. (1971):** Estimation of heritability from experiments with inbred and related individuals. *Biometrics*, 27: 183-190.
- Hohenboken, W. D. (1985):** Heritability and repeatability. In: *General and quantitative genetics.* (Edited by A. B. Chapnes), PP 77-119, Elsevier Science Publishers B. V., Amsterdam-Oxford-New York-Tokyo.

- Ibrahim, M.K. (1980):** Some hair characteristics of different native and standard rabbit breed. Annals of Agric., Sci., Moshtouhor, Zagazig University, Egypt (Abstract).
- Ibrahim, H. (1999):** Buck and doe traits and their relationships with some blood parameters in New Zealand White rabbits. Egyptian Journal of Rabbit Science, 9 (2) 229-241.
- Iraqi, M. M (2003):** Estimation and evaluation of genetic parameters for body weight traits of New Zealand White rabbits in Egypt using different multivariate animal models. Livestock Research for Rural Development 15 (6).
- Iraqi, M. M., Youssef, Y. M. K., El-Raffa, A. M. and Khalil, M. H. (2002):** Genetic and environmental trend for postweaning body weights in New Zealand White and Z-line rabbits using the Animal Model Approach. 3rd Sci., Con., on Rabbit Production in Hot Climates, 8-11 Oct: 89-101.
- Ismail, F. S. A. and Gippert, T. (1999):** Using sunflower by – product in growing rabbit diets. . Egyptian Journal of Rabbit Science, 9 (2): 285-295.
- Jakovenko, A. V. and Kuznecov, G. A. (1970):** Inheritance of some colour and pelt characters in silver-blak foxes. A. B. A., Vol., 39, No.5000.

- Jezewska, G. and Maciejowski, J. (1991):** The characteristic of the zonal pigmentation of hair in pastel foxes. A. B. A., Vol., 61, No. 3756.
- Jinping Wang, Haiyuan Zhang, Kuiyue Yang, Chunji Niu, and Jiazuan, Ni (2003):** Computer simulation of Zn (II) speciation and effect of Gd (III) on Zn (II) speciation in human blood plasma. Humana Press Inc.
- John, P. Carlson; Christian, L. L; Rothschild, M. F. and Willhan, R. L. (1984):** An evaluation of four procedures to rank centrally tested boars. J. Anim. Sci., 59: 934-940.
- Johnson, Z. B., Harris, D. J., Brown, C. J. (1988).** Genetic analysis of litter size, mortality and growth traits of New Zealand rabbits. Prof. Anim. Sci., (4(2):11-16.
- Johnson, D. L. and Thompson, R. (1995):** Restricted maximum likelihood estimation of variance components for unvariant Animal Models using sparse matrix techniques and average information. J. Dairy Sci., 78: 449-456.
- Kane, E., Morris, J. G., Rogers, Q. R., Ihrke, P. J. and Cupps, P. T. (1981):** Zinc deficiency in the cat. J. Nutr., Mar; 111 (3): 488-95.
- Kapoor, U. R; Agawala, O. N; Pachauri; V.C; Nath, K. and Narayan, S. (1972):** The relationship between

diet, the copper and sulphur content of wool and fibre characteristics. *J. Agric. Sci. Camb.* 79: 109-114.

Kawinska, J.; Niedzwiadek, S.; Tuczynska, J. (1980): Studies on the fur quality of French Silvery rabbits. *A. B. A.*, Vol., 50, No. 7419.

Khalifa, R. M., El-Alamy, M. A. and Beshir, M. A. (2002): Semen extenders for rabbit semen and artificial insemination in rabbits using vasoectomized buck GnRH or hCG. *3rd Sci. Con. On Rabbit Production in Hot Climates*, 8-11 Oct: 205-213.

Khalil, M. H. (1980): Genetic and environmental studies on some productive traits in rabbit. M. Sc. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.

Khalil, M. H. (1989): Estimates of genetic and phenotypic parameters for weaning and pre-weaning body weights and gain in Bouscat and Giza White rabbit. *Annals of Agric. Sci., Moshtohor*, 27 (3): 1557-1574.

Khalil, M. H. (1993): Diversity of repeatability between parities for litter traits and reproductive intervals in doe rabbits. *World Rabbit Sci.*, 1 (4): 140-145.

Khalil, M. H. (1996): Technical report on the project entitled " Production of purebred and crossbred parental stock of rabbits to be distributed to small scale breeders in Qaluobia Governorate " *Fac. Agric.*,

Moshtohor and Council for Research and Extension,
Ministry of Agriculture, Egypt, p 9.

- Khalil, M. H. and Afifi, E. A. (1991):** Doe litter performance of Bauscat and Giza White rabbits. Egyptian J. of rabbit Sci., 1(2): 172-184.
- Khalil, M. H. and Afifi, E. A. (2000):** Heterosis, maternal and direct additive effects for litter performance and post weaning growth Gabali rabbits and their F₁ crosses with New Zealand White. 7th World Rabbit Congress.,
- Khalil, M. H. and Khalil, H. H. (1991):** Genetic and phenotypic parameters for weaning and preweaning body weights and gain in Bouscat and Giza White rabbits. J. Appl. Rabbit Res. 14: 44-51.
- Khalil, M. H. and Mansour, H. (1987):** Estimates of genetic and phenotypic parameters for weaning and preweaning body weights and gain in Bouscat and Giza White rabbit. Annals of Agric. Sci., Moshtohor, 27 (3): 1557-1574, Egypt.
- Khalil, M. H. and Soliman, A. M. (1989):** Genetic analysis for some reproductive traits in female rabbits. J. Appl. Rabbit Res., 12: 205-208.
- Khalil, M. H., Owen, J. B. and Afifi, E. A. (1986a).** A review of phenotypic and genetic parameters

associated with meat production traits in rabbits.
Animal Breeding Abstract. 54:725-749 (An article).

Khalil, M. H., Owen, J. B. and Afifi, E. A. (1986b).
Selection indices for rabbit improvement. J. Agric.
Sci., Cambridge, 107: 537-548.

Khalil, M. H., Afifi, E. A. and Owen, J. B. (1987): A
genetic analysis of body weight traits in young
Bouscat and Giza White rabbits. Anim. Prod. 45:135-
144.

**Khalil, M. H., Afifi, E. A., Emara, M. F. and Owen, J.
B. (1988).** Genetic and phenotypic aspects of doe
productivity in four breeds of rabbits. J. Agric. Sci.,
U. K. 110(1):191-197.

**Khalil, M. H., Soliman, A. M. and Khalil, Hamdia, H.
(1993).** Genetic aspects on litter-size correction
factors for postweaning growth in New Zealand
White and Californian rabbits. Egyptian J. of rabbit
Sci., 3(2):199-217.

**Khalil, M. H.; Afifi, E. A.; Youssef, Y. M. K. and Khadr,
A. F. (1995):** Heterosis, maternal and direct genetic
effects for litter performance and reproductive
intervals in rabbit crossers. World Rabbit Sci., 3 (3):
99-105.

**Khalil, M.H., Ibrahim, M. K. and El-Deghadi, A.S.
(1998):** Genetic evaluation of fur traits in New

Zealand White and Californian rabbits on high ambient temperature. *World Rabbit Science*, Vol. 6 (3-4), 311-318.

Khalil, M. H., Afif, E. A., Farid, A., Youssef, Y. K. (2000): Estimation of crossbreeding effects for some litter traits in crossing of New Zealand White Egyptian Gabali rabbits.

Khan, M. A. and Lukefahr, S. D. (1996): Breed type comparisons for post weaning litter traits in rabbits. 6th World Rabbit Congress.,299-303.

Kirchgessner, M., Schwarz, F. J; Grassman, E. and Steinhart. (1979). Interactions of copper with other trace elements. In: J. O. Nriagu (Ed.) *Copper in the Environment. Part II.* John Wiley & Sons, New York.

Kirchgessner, M., Schwarz, F. J. and Schnegg, A. (1982). Interactions of essential metals in human physiology. In: *Current Topics in Nutrition and Disease Volume 6: Clinical Biochemical, and Nutritional Aspects of Trace Elements (EdLAS Prased)* pp 477-512, Alan R. Liss, Inc, New York, USA.

Korhonen, T. (1996): The dairy cattle evaluation of 1996.
<http://www.mloy.fi/faba/blup/blup1.htmlbluo.html>

Kustos, K. and Hullar, I. (1992). Heritability of digestibility of feed dry matter and crude protein and

their relationship with various production traits in New Zealand White rabbits. *J. Applied Rabbit Research*, 15:255-258.

Lahiri, S. S. and Mahajan, J. M. (1982): Note on the inheritance of age at first breeding, litter size and weight in rabbits. *Indian J. Anim. Sci.*, 52 (11): 1148-1150.

Lebas, F. and Matheron, G. (1982): Livestock production in Europe. Perspectives and prospects. *Rabbits Livestock Prod. Sci.*, 9: 235-250.

Linder, M. C. (1996): Copper. In: Present knowledge in nutrition. 7th ed. (Ziegler, E. E. & Filer, Jr., L. J., eds.). ILSI Press, Washington, DC. Pp. 307-319.

Lipichkin, V. I. (1960): Rabbit raising. Moscow R. U. C. I.

Littledike, E. T. and Young, L. D. (1993): Effect of sire and dam breed on copper status of fat lambs. *J. Anim. Sci.*, 71: 774.

Lönnerdal, B. (1989): Trace element absorption in infants as a foundation to setting upper limits for trace elements in infant formulas. *J. Nutr.* 119: 1839-1845.

Lönnerdal, B. (1991): Iron intake and requirements. Interactions with other trace elements. In: Nutritional needs of the six to twelve month old infant (Heird, W.

C., ed.). Carnation nutrition education series, vol. 2. Raven press, New York, NY. Pp. 199-211.

Lønnerdal, B. (1997): Effects of milk and milk components on calcium, magnesium, and trace element absorption during infancy. *Physiol. Rev.* 77: 643-669.

Lukefahr, S. D. (1982): Evaluation of rabbit breeds and crosses for overall commercial productivity. Ph. D. Thesis, Oregon state University, Corvallis, USA.

Lukefahr, S. D. and Hamilton, H. H. (1997): Heritability and repeatability estimates of maternal performance traits in purebred and crossbred does. *World Rabbit Science*, 5(3), 99-105.

Lukefahr, S. D. and Hamilton, H. H. (2000): Longevity and cumulative litter productivity in straightbred and crossing Californian and New Zealand White does. 7th World Rabbit Congress., 364-369.

Lukefahr, S. D; Hohenbaken, W. D; Cheeke, P. R. and Patton, N. M. (1983a): Characterization of straight bred and crossbred rabbits for milk production and associative traits. *J. Anim. Sci.*, 57 (5): 1100-1107.

Lukefahr, S. D; Hohenbaken, W. D; Cheeke, P. R. and Patton, N. M. (1983b): Doe reproduction and pre-weaning litter performance of straightbred and crossbred rabbits. *J. Anim. Sci.*, 57 (5): 1090-1100.

- Lukefahr, S. D., Hooheben, W. D., Cheeke, P. R. and Patton, N. M. (1984):** Genetic effects on maternal performance and litter preweaning and postweaning traits in rabbits. *Anim. Prod.* 38: 293-300.
- Lukefahr, S. D.; Cheeke, P. R. and Patton, N. M. (1990):** Prediction and causation of litter market traits from pre-weaning and weaning characteristics in commercial meat rabbits. *J. Anim. Sci.*, 68: 2222-2234.
- Lukefahr, S. D.; Atakora, J. K. A. and Opoku, E. M. (1992):** Heritability of 90-day body weight on domestic rabbits from tropical Ghana, West Africa. *J. of Heredity* 83: 105-108.
- Lukefahr, S. D., Odi, H.B. and Atakora, J. K. A. (1996):** Mass selection for 70-day body weight in rabbits. *Journal of Animal Science*, 74: 1481-1489.
- Lukefahr, S. D.; McNitt, J. I; Duangjinda, M. and Mitzal, I. (2000):** Additive and dominance genetic effects on post-weaning growth in New Zealand White rabbits. 7th World Rabbit Congress., 457-462.
- Mach, K. (1986):** Genetic aspects of meat production in rabbits. *A. B. A. Vol.*, 55 No. 1263.

- Maciljowski, J., Jezewska, G. and Slawon, J. (1980):** The heritability of hair length in standard mink. A. B. A., Vol., 50, No. 2137.
- Malhate, M. H. (1992):** The effect of feeding some by-products on the productivity in rabbits. M. Sc. Thesis, Faculty of Veterinary, Medicine, Moshtohor, Zagazig, University, Banha Branch, Egypt.
- Marai, I. F. M; Yamani, K. A; El-Gaafary, M.N. and El-Kelawy, H. M. E. (1994):** Effect of human chorionic gonadotrophin on reproductive and productive performance in female New Zealand White rabbits. The First International Conference on Rabbit Production in Hot Climates, 6-8, September, Cairo, Egypt.
- Marinucci, M. T; Pieramati, C; Renierl, C; Petroselli, L. (1989):** La fibra angora nel coniglio: rilievi di carattere fisico. Rivista di Coniglicoltura, 26, 2, 37-40.
- Marston, H. R. (1970):** Br. J. Nutr. 24, 615.
- Marston, H. R. and Lee, H. j. (1948):** Nutritional factors involved in wool production by Merino sheep. II. The influence of copper deficiency on the rate of wool growth and on the nature of the fleece. Aust. J. Scient. Res. Ser. B1: 376-387.

- McDonald, P; Edwards, R. A. and Greenhalgh, J. F. D. (1977):** Animal nutrition. Second Edition. Longman. London.
- McNitt, J. I. and Moody, Jr. G. L. (1990):** Effects of month, breed, and parity on doe productivity in Southern Louisiana. *J. Appl. Rabbit Res.* 13:169-175.
- McNitt, J.I. and Lukefahr, S. D. (1990):** Effect of breed, parity, day of lactation and number of kits on milk production of rabbits. *J. Anim. Sci.*, 68: 1505-1512.
- McNitt, J.I. and Lukefahr, S. D. (1993):** Breed and environmental effects on post-weaning growth of rabbits. *J. of Anim. Sci.*, 71: 1996-2005.
- McNitt, J.I. and Lukefahr, S. D. (1996):** Genetic and environmental parameters for post weaning growth traits of rabbits using Animal Model. 6th World Rabbit Congress, Toulouse, France, 9-12 July, Vol., 2: 325-334.
- Medellin, M. F. and Lukefahr, S. D. (2001):** Breed and heterotic effects on post weaning traits in Altex and New Zealand White straight bred and crossbred rabbits. *J., Anim., Sci.*,
- Mertin, D., Súvegová, K., Flak, P., Svatko, P., Točka, I. (1997):** The effect of genotype and physiological condition on the mineral content of the fur of female nutria. *A.B.A. Vol.*, 65 No.3637.

- Mgheni, M., Christensen, K. and Kyomo, M. L. (1982):** Selection experiment on growth and litter size in rabbits. 1-Effect of litter size in Animal Production 7:217-225.
- Miller, W. J. (1969):** Absorption, tissue distribution, endogenous excretion, and homeostatic control of zinc in ruminants. Am. J. Clin. Nutr. 22: 1323.
- Milner, J. A. (1990):** Trace minerals in the nutrition of children. J. Pediatr. 117: S147-S155.
- Miroshnichenko, T. K. and Utkin, L. G. (1972):** Changes in fur density in rabbits at different ages. A. B. A., Vol., 42, No. 2275.
- Moharram, M. A; Basily, A. b. and Rabie, S. M. (1979):** The determination of trace elements in wool fibres. J. Text. Inst. 70 (11): 499-500.
- Morisse, J. P; Mauricc, R; Cotta, J. P. and Le Gall, G. (1989):** Effect of a pre-weaning diet on some physiological and production parameters in rabbits. J. Applied Rabbit Res., 12: 190-193.
- Moura, A. S. A. M., Polastre, R. and Carmelo, M. J. (1991):** Genetic study of individual performance from weaning to slaughter in selecta rabbits. J. Appl. Rabbit Res. 14: 228-234.

- Mrode, R. A. (1996):** Linear models for the prediction of animal breeding values. CAB International, Biddles Ltd, Guildford, UK.
- Nagpure, N. S., Kothekar, M. D., Gore, A. K. and Deshmukh, S. N. (1991):** Estimation of general and specific combining ability variances from a 4 x 4 diallel cross in rabbits. *J. Appl. Rabbit Res.* 14: 38-43.
- Narayan, A. D; Rawat, S. and Saxena, M. C. (1985):** Phenotypic variability and heritability of litter size in rabbits selected for large size. *Indian J. Anim Sci.*, 55 (9): 790-794.
- Nasr, A. S. (1994):** Milk yield and some associated traits as affected by season of kindling, parity, and kindling intervals in New Zealand White doe rabbits under Egyptian conditions. *Egyptian Journal of Rabbit Science*, 4 (2): 149-159.
- Nayera, Z. B., Afifi, E. A. and Gad, S. M. (1999).** Genetic study of litter and doe reproductive traits in Gabali, Californian rabbits and their crosses under semi-arid. *Minufiya J. Agric. Res.*, 24(5):1654-1666.
- Niedzwiadek, S. (1994):** Improvement of pelts of rabbit fur breed in Poland. *J. of Rabbit Sci.*, 4 (2): 191-193.
- Niedzwiadek, S. and Kawinska, J. (Reciprocal crossing of meat type rabbits. Roczniki- Naukowe-Zootchniki, 9(1) 99-109. (A. B. A. 52, No. 1161)**

- Nikolaev, A. I. (1962):** Science of wool technology. Isdtel. Union Center Press. Moscow.
- Nofal, R. Y. (2001):** Genetic parameters for litter size at birth and teat number of two acclimatized rabbit breeds crossed under local conditions. Egypt. Poult. Sci. Vol, 21 (IV): 854-863.
- Nofal, R., Y., Toth, S. and Virag, G. Y. (1996):** Evaluation of seven breed groups of rabbits for litter traits. 6th World Rabbit Congress., 335-338.
- Nofal, R. Y. Abdel-Ghany, A. M. and Saleh, K. (2002):** Best linear unbiased prediction (BLUP) on some litter traits and muscularity rate of New Zealand White rabbits under Egyptian conditions. 3rd Sci. Con. On Rabbit Production in Hot Climates, 8-11 Oct:127-137.
- Nossier, F. M. (1970):** A study of some economical characteristics in some local and foreign breeds of rabbits. M. Sc. Thesis, Faculty of Agriculture, Cairo, University, Egypt.
- Odenya, W. O; Elzo, M. A; Manrique, C; McDowell, L. R. and Wakeman, D. L. (1992):** Genetic and environmental factors affecting serum macrominerals and weights in an Angus-Brahman multibreed herd: II. Heritabilities of and genetic, environmental, and phenotypic correlations among serum calcium, phosphorus, and magnesium, and weight at weaning. J. Anim. Sci., 70: 2072.

- Ölmez, F. and Dellal, G. (2002):** Some wool characteristics of German originated Angora rabbits breeding in Turke. *Indian, J. of Anim. Sci.*, 72 (1): 107-109.
- O'Mary, C. C., Bell, M. C., Snee, N. N. and Butts, W. T. (1970):** Influence of ration copper on minerals in the hair of Hereford and Holstein calves. *J. Anim. Sci.* 31: 626.
- Oudah, S. M. (1990):** Studies on some rabbit breeds and their crosses. M. Sc. Thesis, Faculty of Agriculture, Mansoura, University, Egypt.
- Ozimba, C. E. and Lukefahr, S. D. (1991):** Comparison of rabbit breed types for post-weaning litter growth, feed efficiency and survival performance traits. *J. Anim. Sci.*, 69: 3494-3500.
- Padilha, M. T. S., Licois, D., Gidenne, T., Carre, B., Coudert, P. and Lebas, F. (1996):** Caecal microflora and fermentation pattern in exclusively milk - fed young rabbits. 6th World Rabbit Congress., 247-248.
- Pagano, T; Lazzaroni, C; Zoccarato, I. and Benatti (1992):** Conservation and improvement of the Carmagnola Gery rabbit. *J. Applied Rabbit Res.* 15: 240-246.
- Patial, K. K., Manuja, N. K., Gupta, K. and Sanjeet, K. (1991):** The effects of season on litter size of broiler

rabbits in Himachal Pradesh (India). *J. Appl. Rabbit Res.* 14: 257-259.

Petersen, A. (1992): Effect of age on priming and fur quality of the rabbit Castor Rex. *J. of Applied Rabbit Res.* 15: 1599-1605, USA.

Petersen, A. (1995): The influence of feeding on the chemical composition of carcasses and on pelt quality in the Castor Rex rabbit. *World Rabbit Sci*, 3 (3): 141-145.

Piles, M., Rafel, O., Ramon, J., Gomez, E.A. (2004): Crossbreeding parameters of some productive traits in meat rabbits. *World Rabbit Sci.*, 12: 139-148.

Ponce de Leon, R. (1996): Production system and technical improvement of rabbit breeding in Cuba. 6th World Rabbit Congress., 401-405.

Ponce de Leon, R. and Menchaca, M. (1985): Breed and heterosis effects on reproductive traits in simple crosses between four rabbit breeds. *A. B. A. Vol.*, 54, No. 5536.

Ponce de Leon, R., Guzman, G., Quesada, M. A. E., Mora, M. Febles, M. (2000): Reproductive performance of four rabbit breeds with concentrate : forage diets in the subtropics. 7th World Rabbit Congress., 475-481.

- Poornima, K., Ramesh, Z. Gupta, B., Narasimha Rao, G. and Satyanarayana, A. (2002):** Genetic study on pre-weaning body weights and growth rates in Californian White rabbits. *Indian J. of Anim. Sci.*, 72 (7): 601-603.
- Pope, A. L. (1971):** A review of recent mineral research with sheep. *J. Anim. Sci.* 33 (6): 1332-1343.
- Prayaga, K. C. and Eady, S. J. (2003):** Performance of purebred and crossbred rabbits in Australia individual growth and slaughter traits. *Australian J. of Agricultural Research*, 54, 159-166.
- Quass, R. L; Anderson, R. D. and Gilmour, A. R. (1984):** BLUP school Handbook-Use of mixed models for prediction and for estimation of (CO) variance components. Animal Genetic and Breeding Unit, University of New England, N. S. W., 2351, Australia, pp 51.
- Radwan, M. S. (1994):** Use of sawdust as a source of dietary fiber in rabbit diets. The First International Conference on Rabbit Production in Hot Climates, 6-8, September, Cairo, Egypt.
- Radwan, M. A. H; Abdella, M. M; Bakir, A. A. and El-Mghrabi, M. M. (1978):** Studies on some nutritional requirements for two local breeds of rabbits during reproduction and growing periods. *Annals of Agric.*,

Aci., Moshyohor, Zagazig University, 10: 245-255, Egypt.

Rafel, O., Tran, G., Utrillas, M., Ramon, J., Perucho, O., Ducrocq, V. and Bosch, A. (1990): Selection pour un objectif global (poids de la portee a 60 jours) en generations chevauchantes dans une lignee blanche synthetique de lapin. Etude de la variabilite non genetique de la taille et du poids de protee a differents stades. Option Mediterneenes. Serie Seminars n 8°, pp 75-82.

Ramon, J; Gomez, E. A; Perucho, O; Rafel, O; Baselga, M. (1996): Feed efficiency and post-weaning growth of several Spanish selected lines. 6th World Rabbit Congress, Toulouse, France, Vol., 2: 351-353.

Randi, E. and Scossiroli, R. E. (1980). Genetic analysis of production traits in Italian New Zealand White and Californian pure-breed population. 2nd World rabbit Congress, April 1980, Barcelona, Spain.

Rashwan, A. A. (1993): Reproduction performance of New Zealand White rabbits as affected by dietary supplementation with Lacto-Sacc, bospro and a mixture of them, under Egyptian environmental conditions. Egyptian J. of Rabbit Sci., 3 (2): 163-169.

Rastogi, R. K., Lukefahr, S. D. and Lauckner, F. B. (2000): Heritability and repeatability of litter traits based on dam records from a tropical rabbit

population in trinidad, West indies. 7th World Rabbit Congress., 483-489.

Reddy, V. G., K., Prabhakar rao, V., Eswara Reddy, C., Prasad, V. L. K., Prasad and Ramesh Gupta, B. (2003): Pre-weaning performance of 3-way cross rabbits. Indian J., of Anim. Sci., 73 (1): 97-99.

Reetz, I; Wegner, W. and Feder, H. (1975): Statistics, heritability, and correlations between several characters of the circulatory system in female German Landrace fatteners: II. Degree of heritability and gene frequencies. Zentralbl. Veterinaermed. Reihe A. 22: 741.

Reiten, J. (1977): Heritability estimates for pelt size and characters in standard mink. A. B. A., 47. No. 4980.

Reverter, A; Golden, B. L; Bourdon, R. M. and Brinks, J. S. (1994): Method variance component procedure: Application on the simple breeding value model. J. Anim. Sci., 72: 2247-2253.

Rice, V. A; Andrews, F. N; Warwick, E. J. and Legates, J. E. (1978): Breeding and improvement of from animals. TMH Edition Tata McGraw- Hill Publishing Co. LTD New Delhi.

Roberts, J. D. and Lukefahr, S. D. (1992). Evaluation of Californian Champagne D'Argent, New Zealand

- White and Palomino as potential sire breeds : 1. Post-weaning litter traits. *J. Appl. Rabbit Res.*, 15:274-286.
- Rochambeau, H. de. (1988).** Genetic of the rabbit for wool and meat production (1984-1987). *World Rabbit Congress, Budapest- HUNGRIA, Vol. 2:1-68.*
- Rochambeau, H; De La Fuente, L. F; Rouvier, R. (1989).** Sélection sur la vitesse de croissance post-sevrage chez le lapin. *Geneic, Evolution*, 21: 527-546.
- Rook, J. A. F. and Thomas, P. C. (1983):** Nutritional physiology and farm animals. Longman. London and New York.
- Rowell, J. E., Lupton, C. J., Roberston, M. A., Pfeiffer, F.A., Nagy, J. A. and White, R. G. (2001):** Fiber characteristics of qiviut and guard hair from wild muskoxen (*Ovibos moschatus*). *J. Anim. Sci.*, 79:1670-1674.
- Ryder, M. (1973):** Hair studies in biology. *A. B. A.*, Vol., 41, No. 2205.
- Sabra, Z. A., Khalil, M. H., Hanafi, M. and Gad, H. A. (2001):** Estimation of sire and paternal grand dams breeding values for growth traits in New Zealand White and Californian using Animal Model.. *Egyptian Journal of Rabbit Science.*, 11 (1): 103-114.
- Sabrah, M. M., Abdalla, E. B., Abd-Elaziz, A. M. S. and Tharwat, E.E. (2000):** Effect of mother – litter

separation before artificial insemination on the reproductive performance of rabbit doe. Egyptian Journal of Rabbit Science, 10 (2) 355-367.

Saleh, K. and Nofal, R. Y. (1999): Effect of Gray Flander, New Zealand and Baladi as sire breeds on pre-and post-weaning litter traits in rabbits. Egyptian Journal of Rabbit Science, 36 (2): 121-130.

Sallam, M. T. and Hafez, M. (1984). The effect of crossbreeding on post-weaning growth and slaughter traits for rabbits. Annals of Agric. Sci. Moshtohor, 22:91-103.

Sallam, M. T., El-Feel, F. M. R., Hassan, H. A. and Ahmed, M. F. (1992): Evaluation of litter performance and carcass traits of two-and three-way crosses of three breeds of rabbits. Egypt., J., Anim., Prod., No. 2, pp. 287-302.

Sallam, M. T., Hassan, H. A., Touny, S. H. and Mohamed, K. I. (1989). Comparison of productivity and performance of three breeds of rabbits under small-holder system in El-Mini Governorate. Minia J. Agric. Res&Dev., 11(4):1795-1816.

Sallam, M.T., Toson, M. A. and Uohana, B. A. (1999): Effect of crossing Egyptian Local Baladi with New Zealand and White rabbits on preweaning litter performance. Egypt. Poult. Sci. Vol 19 (1): March. 71-83.

- Sandford, J. C. (1957):** The doemestic rabbit. Crosby Lockwood & Son LTD London.
- SAS (1996).** SAS' Procedure Guide. "Version 6.12 Ed." SAS Institute Inc., Cary, NC, USA.
- Schaeffer, L. R. (1993):** Variance component estimation methods. University of Guelph, Guelph, Ontario, Canada.
- Schulz-Lell, G; Buss, R; Oldigs, H-D; Dörner, K. & Schaub, J. (1987):** Iron availability from an infant nutrition. Acta Paediatr. Scand. 76: 585-591.
- Searle, S. R. (1989).** Variance components – some history and summary account of estimation methods. J. Anim. Breed. Genet., 106:1-29.
- Sedki, A. E. (1991).** Some behavioral studies on rabbits. M. Sc. Thesis, Faculty of Agriculture, Zagazig University, Egypt.
- Senou, M. and Dempfle, L. (1989):** Evolution of inbreeding additive genetic variance and genetic progress in small nucleus breeding programs. 40th Annual Meeting of the European Association for Animal Production, Dublin, Ireland.
- Shebl, M.K., El-Raffa, A.M., Zahed, S.M., Khalil, M.H. and Zimmerman, E. (1997).** Genetic analysis and sire evaluation for postweaning growth traits in three

- lines of rabbits raised under intensive production system. *Egyptian Poultry Science*, 17(2):235-260.
- Shils, M. E. (1994):** Magnesium In: Modern nutrition in health and disease. 8th ed. Vol. 1 (Shils, M. E; Olson, J. A. & Shike, M., eds.) Lea & Febiger, Philadelphia, PA. Pp. 164-184.
- Smith, R. M. (1987):** In "Trace elements in Human and Animal nutrition" (W. Mertz, ed.). 5th ed. Vol. 1.p. 143. Academic Press. New York.
- Soliman, F. N. K., El-Sheikh, A. I. and Mandour, M. A. (1999):** Effects of restricted feeding time, season and sex on postweaning performance of New Zealand White rabbits. *Egypt. Poult. Sci.* Vol 19 (II): 407-418.
- Solomons, N. W. (1986):** Competitive interaction of iron and zinc in the diet: consequences for human nutrition. *J. Nutr.* 166: 927-935.
- Sonbol, S. M. and El-Gendy, K. M. (1992).** Effects of dietary profiotics on performance of weaning New Zealand White rabbit. *Egyptian J. of Rabbit Sci.*, 2(2):135-144.
- Sorensen, D. A. and Kennedy, B. W. (1984).** Estimation of genetic variances from unselected population. *J. Anim. Sci.*, 58(5):1213-1223.

- Sorensen, P., Kjaer, J. B., Brenoe, U. T. and Sug. (2001):** Estimates of genetic parameters in Danish White rabbits using an animal model:II. Litter traits. *World Rabbit Science*, 9(1), 33-38.
- Southwood, O. I. , Kennedy, B. W; Meyer, K. and Gibson, J. P. (1989):** Estimation of additive maternal and cytoplasmic genetic variance in animal model. *J. Dairy Sci.*, 72: 3006-3012.
- Strivastava, K. B. and Dwaraknath, P. K. (1971):** Ceruloplasmin (copper oxidase) as an indicator of copper status in sheep. *Indian. J. Anim. Sci.* 41 (6): 471-475.
- Su, G; Kjaer, J.B; Brenoe, U.T. and Sorensen, P. (1999).** Estimates of genetic parameters in Danish White rabbits using an animal model: I. Growth and carcass traits. *World Rabbit Sci.*, 7(2): 59-64.
- Sumner, R. M. W. (1979):** Efficiency of wool and body growth in pen-fed Romney, Coopwarth, Perendale and Corriedale SHEEP. *N. z. j. Agric., Res.*, 22: 251-257.
- Szendroe, ZS., Nemeth-Biro, E., Radnai, I., Milisits, G. and Zimanyi, A. (1996).** Connection between reproductive performance and productive lifetime of rabbit doe. 6th World Rabbit Congress, Toulouse, France. Vol., 2:123-126.

- Tag El-Din, I. H; Ibrahim, Z. M. K. and Oudah, S. M. (1992):** Studies on live body weight and litter size in New Zealand White, Californian, Baladi rabbit and their crossbreds in Egypt. *Options Mediterraneennes Series seminaries*, 17:67-74.
- Tai, H. and Zanaty, G. A. (1993).** Effect of dietary energy to protein ratio on performance, digestibility and carcass quality of growing rabbits. *Egyptian J. of rabbit Sci.*, 3(2): 151-162.
- Tao, Y.R. (1994):** Studies on the quality of Rex rabbit fur. *World Rabbit Sci.*, 2 (1): 21-24.
- Tawfeek, M. I. (1993).** Reproduction and growth performance of NZW rabbits as affected by mineral supplementation in pelleted diet. *Egyptian J. of Rabbit Sci.*, 3(2):179-190.
- Tawfeek, M. I. (1995):** Performance of doe rabbits and their young as affected by remating interval, litter size at birth and month of kindling in New Zealand White and Bauscat purebred, under Egyptian conditions. *Egyptian Journal of Rabbit Science*, 5 (2): 101-115.
- Tawfeek, M. I. and El-Gaafary, M. N. (1991):** Evaluation of A.I. technique as compared to natural mating in association with some productive and reproductive traits in rabbits. *Egyptian J. Rabbit Sci.*, 1 (1): 13-20.

- Tawfeek, M. I. and El-Hindawy, M. M. (1991):** Reproduction and growth performance of NZW and CAL rabbits as affected by supplementation with local-Sace during summer. *Egyptian J. Rabbit Sci.*, 1 (2): 124-135.
- Tawfeek, M. I., El-Gaafary, M., El-Rahim, M. I. and Ahmed, S. S. (1994).** Influence of dietary citeic acid and aciduraed palm oil soa pstocr supplementation on growth response, nutrient utilization, blood metabolites carcass traits and reproductive efficiency of NZW rabbits. The First International Conference on Rabbit Production in Hot Climates, Cairo, 6-8, September.
- Teepker, G. and Swalve, H. H. (1988).** Estimation of genetic parameters for milk production in the first three lactations. *Livestock Prod. Science*, 20:193-202.
- Testik, A; Baselga, M. Yavuz, C. and Garcia, M. L, (1999):** Growth performances of Californian, Baladi rabbits and their crossbreds in Egypt. *Option Mediterranean's Series seminaries*, 17: 67-74.
- Thompson, R. and Meyer, K. (1986).** A review of theoretical aspects in the estimation of breeding values for multi-trait selection. *Livestock Production Science*, 15:299-313.
- Torres, C., Baselga, M. and Gomez, E. (1992).** Effect of weight daily gain selection on gross feed efficiency in

- rabbits. *J. Applied Rabbit Research*, 15:884-888, USA.
- Tosh, J. J. and Wilton, J. W. (1994):** Effects of data structure on variance of prediction error and accuracy of genetic evaluation. *J. Anim. Sci.*, 72 (10): 2568-2577.
- Toson, M. A. (2000):** Effect of breeding system on productivity of New Zealand White rabbits. *Egypt. Poult. Sci. Vol 20 (III) Sept: 485-495.*
- Toson, M. A. Abd El-Hakim, A. A. and Rabie, Z. B. H. (1995).** Effect of remating interval and type of mating on some productive and reproductive performance traits of rabbits *Egyptian J. of Rabbit Sci. 5(1):33.42.*
- Toson, M. A., Sallam, M. T. and Uohana, B. A. (1999):** Evaluation of purebred and crossbred rabbits for growth and carcass traits. *Egypt. Poult. Sci. Vol 19 (I) March: 53-70.*
- Tuormaa, T. E. (1995).** Adverse effects of zinc deficiency: A review from the literature *J. Orthomolecular med.*, 10(3/4):149-165.
- Underwood, E. J. (1962):** Trace elements in Human and animal nutrition, 2nd ed. New York: Academic press, Inc.
- Van der Werf, J. H. J., Meuwissen, T. H. E. and de Jonj, G. (1994).** Effects of correction for

- heterogeneity of variance on bias and accuracy of breeding values estimation for Dutch dairy cattle. *J. Dairy Sci.*, 77:3174-3184.
- Van Raden, P. M., Jensen, E. L., Lawlor, T. J. and Funk, D. A. (1990).** Prediction of transmitting ability estimates for Holstein type traits. *J. Dairy Sci.*, 73:191-197.
- Van Tassell, C. P., Casella, G. and Pollak, E. J. (1995).** Effects of selection on estimates of variance components using Gibbs sampling and restricted maximum likelihood. *J. Dairy Sci.*, 78(3):675-692.
- Vaškin, A.N. (1973):** Comparative characteristics of fur development on the foot in different rabbit breeds. *A. B. A.*, Vol., 42, No. 3303.
- Voljf, Ju. K. (1963):** Short-fur. *A. B. A.*, 32. No., 1299.
- Vrillon, J. L., Donal, R., Poujardieu, B., Rouvier, R., Theau, M., Duzert, R., Geneties, A. and Roustan, A. (1979):** Selection and testing of sire lines of rabbits for terminal crossing. 1972-1975. *Bulletin Technique, Dept. Genetique de Animal (Institute National de Recherche Agronomie, France)*, No. 28.
- Wei, M. and Van der Werf, J. H. (1993):** Animal Model estimation of additive and dominance variances of egg production traits of poultry. *J. Anim. Sci.*, 71: 57-65.

- Wiener, G. Field, A. C. and Jolly, G. M. (1970):** The concentration of minerals in the blood of genetically diverse group of sheep. II. Factors influencing seasonal changes in copper concentration. *J. Agric. Sci. Camb.* 75: 489-495.
- Wiener, G. Russel, W.S. and Field, A. C. (1980):** Factors influencing the concentration of minerals and metabolites in the plasma of cattle. *J. Agric. Sci. Camb.* 94: 369-376.
- Wierzbicki, H. (2000):** Additive genetic and error variance components for conformation and coat traits in Arctic fox. *A. B. A. Vol.*, 69 No., 2452.
- Wierzbicki, H. and Filistowicz, A. (2002):** Grading versus animal model evaluation in arctic fox (*Alopex lagopus*). *A.B.A. Vol.*, 70 No. 253.
- Wiggans, G. R. (1991).** National genetic improvement programs for dairy cattle in the United states. *J. Anim. Sci.*, 69:3853-3860.
- Wiggans, G. R. and Misztal, I. (1987).** Supercomputer for an Animal Model evaluation of Ayrshire milk. *J. Dairy Sci.*, 70:1906.
- Wiggans, G. R. and Van Raden, P. M. (1990):** Animal Model evaluation within herd linked to National evaluation. *J. Dairy Sci.*, 73: 1956-1963.

- Wiggans, G. R., Van Dijk, J. W. J. and Misztal, I. (1988).** Genetic evaluation of dairy goats for milk and fat yield with an Animal Model. *J. Dairy Sci.*, 71:1330-1337.
- Wolf, J. (1996):** User's manual for the software package (CBE) Version 4.0. A Universal program for estimating crossbreeding effects. Research Institute of Animal Production, Department of Genetics and Biometrics, Praha Uhřetěves, Czech Republic.
- Wolf, J., Distl, O., Grosshans, T. and Seeland, G. (1995):** Crossbreeding in farm animals.V. Analysis of crossbreeding plans with secondary crossbred generations. *J. Anim. Breed. Genet.* 112, 81-94.
- Wynne, K. N. and McClymont, G. L. (1956):** Copper, Molybdenum, Sulphate interactions in induction of ovine hypocupremia and hypocuprosis. *Aust. J. Agric. Res.* 7: 45-47.
- Yamani, K. A. (1994):** Rabbit meat production situation in Egypt. Proceeding the First International Conference on Rabbit Production in Hot Climates, 6-8, September, Cairo, Egypt.
- Yamani, K. A; Daader, A. H. and Asker, A. A. (1991a):** Non-genetic factors affecting rabbits production in Egypt. *Option Mediteraneennes-Serie Seminaires.* 17: 159-172.

- Yamani, K.A; Gabr, H. A; Tawfeek, M. I; Ibrahim, Z. A. and Sedki, A. A. (1991b):** Performance of breeding doe and their interrelationship with litter traits in rabbits. *Egyptian J. Rabbit Sci.*, 1 (2): 106-123.
- Yamani, K. A; Abd El-Aziz, S. E; Ibrahim, Z. A. and Rashwan, A. A. (1992a):** Performance of growth and state of ossification centers used as reference points for the broiler New Zealand White rabbit. *Egyptian J. Rabbit Sci.*, 2 (2): 107-122.
- Yamani, K. A; Ibrahim, Z. A; Rashwan, A. A. and El-Gendy, K. M. (1992b):** Effect on pellet diet supplemented with probiotic (Lacto-Sacc) and water supplemented with a combination of probiotic and acidifier (Acid-Pak 4-way) on digestibility, growth, carcass and physiological aspects of weanling New Zealand White rabbits. 5th Congress of the World Rabbit Science Association. Oregon, U. S. A.
- Yamani, K. A; Ayyat, M. S. and Abdalla, M. A. (1994):** Evaluation of the traditional rabbit diet versus the pelleted diet for growing rabbits for small scale units. The First International Conference on Rabbit Production in Hot Climates, 6-8, September, Cairo, Egypt.
- Youssef, M. K. (1992):** The productive performance of purebred and crossbred rabbits. M. Sc. Thesis, Faculty

of Agriculture, Moshtohor, Zagazig, University,
Banha Branch, Egypt.

Youssef, M. K. (1998): Genetic analysis for reproductive life of doe rabbit. Ph. D. Thesis, Faculty of Agriculture, Moshtohor, Zagazig, University, Banha Branch, Egypt.

Youssef, Y. M. K. (2004): Heritability and common litter effects estimated by an Animal Model for post-weaning growth traits in New Zealand White and Baladi Red rabbits. Egyptian Journal of Rabbit Science, 24 (1): 205-216.

Zaky, H. I. (2001): Effects of genetic and non-genetic factors on litter traits in crosses of two rabbit strains under desert conditions. Egyptian Journal of Rabbit Science, 7(2), 627-640.

Zanaty, G. A. (2000): Determination of methionine requirements for growing New Zealand White rabbits. Egyptian Journal of Rabbit Science, 10 (1): 175-182.

Zhang, Z. H; Shen, Y. Z; Li, B. O. and Lin, Z. H. (1993): Estimates of heritability and genetic correlation of the major quantitative traits in New Zealand rabbits. A. B. A. Vol., 61 No., 1100.

Zimmermann, E; Jainter, J; Dempfle, L. and Zika, B. (1988): Relation between litter size (number weaned) and later body weight gain in the New Zealand White rabbit. 4th World Rabbit Congress, Boudapest, Hungary, 10-14 October, 209-215.