

BIBLIOGRAPHY

Akiba, Y., Nagano, H. and Horiguchi, M. 1992. Effects of corticosterone injected at graded dose levels and implanted with tube at low levels on growth and hepatic lipid and abdominal fat deposition in broiler chickens. *Japanese Poultry Science*, 29: 287-295.

Amer, I.J. 1961. Egg quality of four breeds of domestic fowl. *Br. Poul. Sci.*, 38: 156- 160.

Andrews, L.D., Stamps, L.K. and Coffield, A.W. 1990. Performance of broiler breeders reared under different lighting regimens. *Poultry Science*, 69:1223-1225.

Assenmacher, I. 1973. The peripheral endocrine glands, In : *Avian Biology* (D.S. Farner and J.R.King eds.) Vol. 3, pp. 183-286. Academic press New York.

Astier, H. and Newcomer, W.S. 1978. Extrathyroidal conversion of thyroxine to triiodothyronine in a bird : the Peking duck. *General and Comparative Endocrinology*, 35: 496-499.

Ayyar, C.B., Singh, .D. and Ramachandran, A.V. 1992. Seasonal gravimetric changes in the organs of normal and adrenal manipulated feral pigeons, *Columba livia*. *Journal of Reproductive Biology and Comparative Endocrinology*, 4(1): 9-25.

Bartov, I. 1982. Corticosterone and fat deposition in broiler chicks: Effect of injections, time, breed, sex and age. *British Poultry Science*, 23:161-170.

Baum,G. J. and Meyer, R. K. 1960. Effect of adrenal steroids and diethyl -bestan on growth and fat content of cockerels. *American Journal of Physiology*, 198: 1263-1266.

Bellamy, D. and Leonard, R.A. 1965. Effect of cortisol on the growth of chicks. *General and Comparative Endocrinology*, 5: 402-410.

Bermudez, F.F., Forbes, J.M. and Injidi, M.H. 1983. Involvement of melatonin and thyroid hormones in the control of sleep, food intake and energy metabolism in the domestic fowl. *Journal of Physiology*, 337 : 19-27.

Beuving, G. and Vonder, G.M.A. 1977. Daily rhythm of corticosterone in egg laying hens and the influence of egg laying. *Journal of Reproduction and Fertility*, 51 : 169-173.

Beuving, G. and Vonder, G.M.A. 1978. Effect of stressing factors on corticosterone levels in plasma of laying hens. *General and Comparative Endocrinology*, 35: 153-159.

Blivaiss, B.B. 1947. Development of secondary sexual characters in thyroidectomized Brown Leghorn hens. *Journal of Experimental Zoology*, 104: 267-305.

Brake, N.P., Brake, J., Thaxton, J.P. and Murray, D.L. 1988. Effect of cortisol on basophil hypersensitivity to phytohemagglutinin in chickens. *Poultry Science*, 67: 669-673.

Braveman, L.E., Ingbar, S.H. and Sterling, K. 1970. Conversion of thyroxine to triiodothyronine in athyroidic human subjects. *Journal of Clinical Investigations*, 49: 855-864.

Broody, S. 1945 " *Bioenergetics and growth*". New York, Reinhold. Carsia, R.V., Morin, M.V., Rosen, H.D. and Weber, H. 1987. Ontogenic corticosteroidogenesis of the domestic fowl. Response of isolated adrenocortical cells. *Proceedings of Society of Experimental Biology and Medicine*, 184: 436-445.

Charles, D.R. 1984. *A model of egg production*. *Poultry Science*, 25: 309-321.

Chopra, I.J., Sack, J. and Fischer, D.A. 1977. 3,3',5'-triiodothyronine (reverse T₃) and 3,3',5'-iodothyronine (T₄) in foetal and adult sheep. Study of metabolic clearance rates, production rates, serum binding and thyroidal content relative to thyroxine. *Endocrinology (Baltimore)*, 1086-1088.

Christie, W. W. and Moore, J. H. 1970. The structure of egg yolk triglycerides. *Biochem. et Biophys. Acta.*, 218: 83-88.

Christie, W.W. and Moore, J.H. 1972. The lipid composition of eggs from triglyceride structure of eggs from several avian species. *Comparative Biochemistry and Physiology.*, 41B: 297-306.

Chung, R.A. and Stadelman, W.J. 1965. A study of variations in the structure of the hen's egg. *British Poultry Science*, 6: 277-282.

Clarke, I.J., Hemsworth, P.H., Barnett, J.L. and Tilbrook, A.J. 1992. Stress and reproduction in farm animals, in: "*Stress and Reproduction*". Serno Symposia publication from Raven press (K.E. Sheppard, J.H. Boublik, J.W. Funder Eds.) Ravenpress Newyork. Chandola 1985.

Charles, D.R. 1984. A model of egg production. *Poultry Science*. 25 : 309-321.

Chopra, I.J., Sack, J. and Fischer, D.A. 1977. 3,3',5'-triiodothyronine (reverse T₃) and 3,3',5-triiodothyronine (T₄) in fetal and adult sheep. Study of metabolic clearance rates, production rates, serum binding and thyroidal content relative to thyroxine. *Endocrinology* (Baltimore), 1086-1088.

Cotterill, O.J., Marion, W.W. and Naber, E.C. 1977. A nutrient reevaluation of shell eggs. *Poultry Science*, 56: 1927-1934.

Crawford, N. 1950. An improved method for the determination of free and total cholesterol using ferric chloride reaction. *Clinica. Chem. Acta.* 3: 357-367.

Crulckshank, E.M. 1941. Studies on fat metabolism in the fowl. I. The composition of the egg fat and depot fat of the fowl as affected by the ingestion of large amounts of different fats. *Nutrition Abstracts and Reviews*, 10: 645-659.

Cunningham, F.E., Cotterill, O.J. and Funk, E.M. 1960. The effect of season and age of bird. 2. On the chemical composition of egg white. *Poultry Science*, 39: 300-308.

Cunningham, F.E. and Lee, H.W. 1978. A study of turkey egg yolk. 1. Comparison and electrophoretic separation of components. *Journal of Food Biochemistry*, 2: 251-257.

Davison, T.F., Rea, J. and Rowell J.C. 1983. Effects of corticosterone and growth and metabolism of immature *Gallus domesticus*. *General and Comparative Endocrinology*, 50 : 463-468

Davison, T., Scanes, C.G., Flack, I.H., and Harvey, S. 1979. Effect of daily injections of ACTH on growth on the adrenal and lymphoid tissues of two strains of immature fowls. *British Poultry Science*, 20: 575-585.

Davison, T.F., Freeman, B.M. and Rea, J. 1985. Effects of continuous treatment with synthetic ACTH or corticosterone of immature *Gallus domesticus*. *General and Comparative Endocrinology*, 59: 416-423.

Decuypere, E., Scanes, C.G., and Kuhn, E.R. 1983. Effect of glucocorticoids on circulating concentrations of T_3 and T_4 on peripheral mono-deiodination in pre and post hatching chickens. *Hormone and Metabolic Research*, 15 : 233-236.

deKrester, D.M., Risbridger, G.P., Curminoid, A.E., Gonzales, G. and Sun, Y.T. 1985. Paracrine mechanisms in regulation of testicular functions. In: *Growth Factors in Fertility Regulation*, (FP. Haseltine and J.K. Finlay eds.) Cambridge University press, Cambridge, pp. 143-156.

Donald, D.Bell and Carol. J. Adams. 1992. First and second lay cycle egg production characteristics in commercial table egg flocks. *Poultry Science*, 71: 448-459

Dunn, I.C., Sharp, P.J. and Hocking, P.M. 1990. Effect of interaction between photostimulation, dietary restriction and dietary maize oil dilution on plasma LH and ovarian and oviduct weights in broiler breeder females during rearing. *British Poultry Science*, 31: 415-427.

Dunn, I.C. and Sharp, P.J. 1992. The effect of photoperiodic history on egg laying in dwarf broiler breeder hens. *Poultry Science*, 71: 2090-2098.

Dandekar D.S. 1998. Phodoendocrine manipulation: A novel paradigm for potentiating poultry productivity. Effect if timed step-up photoperiod and mild hypo. or hypercorticalism in domestic fowl. Ph.D thesis submitted to the M.S.University of Baroda, Baroda-2.

Edens, F.W. and Siegel, T. 1975. Adrenal responses in high and low ACTH response lines of chickens during acute heat stress. *General and Comparative Endocrinology*, 25: 64-73.

Edwards, H.M. 1964. The influence of breed and / strain on the fatty acid composition of egg lipids. *Poultry Science*, 43: 751-754.

Eilan, Y. and Soller, M. 1991. Two-way selection for threshold body weight at first egg in broiler strain females. 2. Effect of supplemental light on weight and age at first egg. *Poultry Science*, 70: 2017-2022.

Enright, J.T. 1965. Synchronization and ranges of entrainment. In *Circadian clocks : Proceedings of the Feldafing Summer School* (ed. J. Aschoff) pp. 112-124. North-Holland, Amsterdam.

Epple, A., Orians, G.H., Farner, D.S. and Lewis, R.A. 1972. The photoperiodic testicular response of a tropical finch, *Zonotrichia capensis costaricensis*. *Condor*, 74: 1-4.

Etches, R. J. 1996. "Reproduction in Poultry". CAB International Wallingford, Oxon, OX 10 8 DE, U.K.

Etches, R.J. and Croze, F. 1983. Plasma concentration of luteinizing hormone, progesterone and corticosterone during ACTH and corticosterone induced ovulation in the hen (*Gallus domesticus*). *General and Comparative Endocrinology*, 50: 359-365.

Etches, R.J. and Cunningham, F.J. 1976. The interrelationship between progesterone and luteinizing hormone during the ovulation cycle of the hens (*Gallus domesticus*). *Journal of Endocrinology*, 71 : 51.

Etches, R.J. and Cunningham, V.J. 1977. The plasma concentration of testosterone and luteinizing hormone during the ovulation cycle of the hen. *Acta Endocrinologica*, 84: 357-366.

Etches, R.J., MacGregor, H.E., Morris, T.R. and Williams, J.B. 1983. Follicular growth and maturation in the domestic hen (*Gallus domesticus*). *Journal of Reproduction and Fertility*, 67: 351-358.

Etches, R.J. and Cunningham, F.J. 1976. The interrelationship between progesterone and luteinizing hormone during the ovulation cycle of the hen (*Gallus domesticus*), *Journal of Endocrinology*, 71: 51-58.

Etches, R.J. 1979. Plasma concentration of progesterone and corticosterone during the ovulation cycle of the hen (*Gallus domesticus*). *Poultry Science*, 58: 211-216.

Etches, R.J. and Cunningham, F.J. 1975. The interrelationship between progesterone and luteinizing hormone during the ovulation cycle of the hen (*Gallus domesticus*). *Journal of Endocrinology*, 71: 51-58.

Enright, J.T. 1965. Synchronization and ranges of entrainment. In *Circadian Clocks : Proceedings of the Feldafing Summer School* (ed. J. Aschoff), pp. 112-124. North-Holland, Amsterdam.

Eppler, A., Orians, G.H., Farner, D.S. and Lewis, R.A. 1972. The photoperiodic testicular response of a tropical finch, *Zonotrichia capensis costaricensis*. *Condor*, 74: 1-4.

Everson, G.H. and Saunders, H.J. 1957. Composition and nutritive importance of eggs. *Journal of American Dietary Association*, 33: 1244-1254.

Evans, R. J. and Bandemer, S. L. 1961. Lipid distribution in egg yolk lipoprotein complex. *Poultry Science*, 40: 597-602.

Folch, J., Lees, M. and Stanley G.H.S. 1957. A simple method for the isolation and purification of total lipids from animal tissues. *Journal of Biological Chemistry*, 226: 497-509.

Follett, B.K. and Sharp, P.J. 1969. Circadian rhythmicity in photoperiodically induced gonadotropin release and gonadal growth in the quail. *Nature London*, 223: 968-971.

Follett, B.K., Mattocks, P.W. and Farner, D.S. 1974. Circadian functions in the photoperiodic induction of gonadotropin secretion in white crowned sparrow. *Proc. of the National Academy of Sciences, USA*, 71: 1666-1669.

Follett, B.K. and Robinson, J.E. 1980. Photoperiod and gonadotropin secretion in birds. *Progr. Reprod. Biol.*, 5 : 39-61.

Fraser, R.M. 1955. Egg production and fertility in poultry. In: *Progress in the physiology of farm animals*. Vol.2. Ed. by J. Hammand. Butterworths, London.

Fromme-Bouman, H. 1962. Jahresperiodische Untersuchungen an der Nebennierenrinde der Amsel (*Turdus merula*. L.). *Volgelwarte*. 21:188-198.

Froming, G.W. 1971. "Eggs and egg products". In: *Encyclopedia of Industrial Chemical Analysis*, 12: 57-58. Ed. Snell, F.W. New York, J.Wiley and Sons.

Freeman, B.M. and Manning, A.C.C. 1978. Ontogenic circadian rhythm in the lipidaemic response of *Gallus domesticus* to glucagon. *Comparative Biochemistry and Physiology*, 61: 23-27.

Freeman, B.M., Manning, A.C.C. and Flack, I.H. 1979. Habituation by the immature fowl in response to repeated injections of corticotrophin. *Poultry Science*, 20 : 391-399.

Freeman, B.M. and Vince, M.A. 1974. "Development of Avian Embryo." Chapman and Hall, London.

Gavora, J.S. and Hodgson, G.C. 1970. *Canadian Journal of Genetics and Cytology*, 12: 627-634, as cited by B.M. Freeman, 1983.

Gavora, J.S. and Kondra, P. A. 1970. *Canadian Journal of Animal Sciences*, 50: 629-637 as cited by B.M. Freeman 1983.

Gross, W.B., Siegel, P.B. and DuBase, R.T. 1980. Some effects of feeding corticosterone to chickens. *Poultry Science*, 59: 516-522.

Gutteridge, H.S. and O'Neil, J.B. 1942. The relative effect of environment and heredity on body measurement and production characteristics of poultry. II. Period of egg production. *Journal of Agricultural Sciences*, 22: 378-379.

Hall, G. O. and Marble, D.R. 1932. The relationship between the first year egg production and later years. *Poultry Science*, 11: 194-203.

Hall, L.M. and Mackay, L.C. 1993. The relationship between yolk cholesterol and total lipid concentration throughout the first year of egg production in the domestic fowl. *British Poultry Science*, 34: 487-495.

Hamilton, R. M. G. 1978. Observations on the changes in physical characteristics that influence egg shell quality in lean strains of White leghorn. *Poultry Science*, 57:1192-1197.

Hamner, W.M. 1965. Avian photoperiodic response rhythms : evidence and inference. In *Circadian clocks : Proceedings of the Felsdaling Summer school* (ed. J. Aschoff), pp: 379-384, North-Holland, Amsterdam.

Harvey, S. and Klandorf, H. 1983. Reduced adrenocortical function and increased thyroid function in fasted and fed chickens. *Journal of Endocrinology*. 98: 129-135.

Harvey, S., Scanes, C., Chadwick, A. and Bolton, N.J. 1978. The effect of thyrotropin releasing hormone (TRH) and somatostatin (GHRH) on growth hormone and prolactin secretion *in vitro* and *in vivo* in domestic fowl (*Gallus domesticus*). *Neuroendocrinology*, 26: 249-260.

Harvey, S. and Scanes, C.G. 1979. Plasma growth hormone concentrations in growth-retarded cortisone-treated chickens. *British Poultry Science*, 20 : 331-335.

Hayashi, K., Kayali, A.G. and Young, V.R. 1986. Synergism of triiodothyronine and corticosterone on muscle protein breakdown. *Biochem. Biophys. acta*, 883: 108-111.

Hayashi, K., Nagai, Y., Ohtsuka, A. and Tomita, Y. 1994. Effect of dietary corticosterone and trilostane on growth and skeletal muscle protein turnover in broiler cockerels. *British Poultry Science*, 35: 789-798.

Hoffman, K. 1971. Splitting of the circadian rhythm as a function of light intensity in *Biochronometry* (ed. M Menaker), pp. 134-151. National Academy of Sciences, Washington D.C.

Howard, A.N. and Constable, B.J. 1958. The metabolism of adreno-corticotrophic hormone on ascorbic acid in the chick. *Biochemical Journal*, 69 : 501-505.

Howarth, B. Jr. and Marks, H.L. 1973. Thyroidal ^{131}I Uptake of Japanese Quail in response to three different dietary goiterogens. *Poultry Science*, 52: 326-331.

Huybrechts, L.M.D., King, B., Lauterio, T., Marsh, J. and Scanes, C.G. 1985. Plasma concentration of somatomedin C in hypophysectomized dwarf and intact growing domestic fowl as determined by heterologous radio-immunoassay. *Journal of Endocrinology*, 104: 233-239.

Hutchinson, J.C.D. 1962. The annual rhythm of egg production in fowls. *12th World Poultry Congress*. Sydney, pp. 124-129.

Hutchinson, J.D.C. and Taylor, W.W. 1957. Seasonal variation in the egg production of fowl: Effect of temperature and changes of day length. *Journal of Agricultural Sciences*, 49: 419-434.

Jallages, M. and Assenmacher, I. 1973. Effects de la photoperiode et du taux d'androgene circulant sur la fonction thyroïdienne du canard. *General and Comparative Endocrinology*, 19: 331-340.

Jallages, M. and Assenmacher, I. 1974. Thyroid-gonadal interactions in the male domestic duck in relationship with the sexual cycle. *General and Comparative Endocrinology*, 22: 13-20.

Johnson, A.L. and vanTienhover, A. 1983. Plasma corticosterone concentration relative to photoperiod, oviposition and ovulation in the domestic hen. *Poultry Science*, 98: 10-16.

Joseph, J., Dandekar, D.S. and Ramachandran, A.V. 1996. Dexamethasone-induced alterations in glucose tolerance and, insulin, glucagon and adrenaline responses during the first month in White Leghorn chicks. *British Poultry Science*, 37: 665-676.

Joseph, J. and Ramachandran, A.V. 1992. Alterations in carbohydrate metabolism by exogenous dexamethasone and corticosterone in post-hatched White Leghorn chicks. *British Poultry Science*, 33: 1085-1093.

Joseph. J. and Ramachandran, A.V. 1993. Effect of exogenous DXM and corticosterone on weight gain and organ growth in post-hatched White leghorn chicks. *Indian Journal of Experimental Biology*, 31: 858-860.

Joyce, K.L., Porcelli, J. and Cooke, P.S. 1993. Neonatal goiterogen treatment increases adult testis size and sperm production in the mouse. *Journal of Andrology*, 14: 448-455.

Kallend, G. A., Vora, A., Peterson, M. and Swerdloff, R.S. 1978. Reproductive hormonal axis of the male rats in experimental hypothyroidism. *Endocrinology*, 102: 476-484.

Kalliecharan. and Hall. 1974. A developmental study of the progesterone, corticosterone, cortisol and cortisone circulating in plasma of chick embryos. *General and Comparative Endocrinology*, 24: 364.

Kameda, Y. Oyama, N. and Horino, M. 1984. Ontogeny of immunoreactive somatostatin in thyroid cells from dogs and guinea pigs. *Anatomical Research*, 208: 81-101.

King, D.B. and King, C.R. 1973. Thyroidal influence on early muscle growth of chickens. *General and Comparative Endocrinology*, 21: 517-529.

Kuhn, E.R., Decuypere, E. and Rudas, D. 1984. Hormonal and environmental interactions on thyroid function in the chick embryos and post-hatching chicken. *Journal of Experimental Zoology*, 232 : 653-658.

Kuhn, E.R. and Nouwen, E.J. 1978. Serum levels of triiodothyronine and thyroxine in the domestic fowl following mild cold exposure and injection of synthetic thyrotropin releasing hormone. *General and Comparative Endocrinology*, 34:336-342.

Lahiri, N.L. and Baliga, B.R. 1970. Nutritive value of duck and hen eggs. *Indian Food Packer*, 24: 25-29.

Legait, H and Legait, E. 1959. Variations d' activite du systeme hypothalamo-neuro-hypophysaire et modifications surrenaliennes chez le pouceaucours du cycle. *Annual CR Soc. Biol.*, 153: 668-670.

Lewis, R.A., King, J.R. and Farner, D.S. 1974. Photoperiodic responses of a subtropical population of the finch (*Zonotrichia capensis hypoleuca*). *Condor*, 76: 223-227.

Lewis, P.D., Perry, G.C. and Morris, T.R. 1992. Effect of timing and size of light increase on sexual maturity in two breeds of domestic hen. *Proceedings of XIX World Poultry Congress*. Amsterdam, vol.1, 689-692.

Lewis, P.D., Perry, G.C. and Morris, T.R. 1996a. Effects of changes in photoperiod and feeding opportunity on the performance of two breeds of laying hen. *British Poultry Science*, 37: 279-293.

Lewis, P.D., Perry, G.C. and Morris, T.R. 1996b. Effects of constant and of changing photoperiod on age at first egg and related traits in pullets. *British Poultry Science*, 37: 885-894.

Lewis, P.D., Perry, G.C. and Morris, T.R. 1996c. Effect of constant and changing photoperiods on age at first egg and related traits in pullets. *British Poultry Science*. 37 : 885-894.

Lewis, P.D., Perry, G.C., Morris, T.R. and Follett, B.K. 1994. Effects of timing and size of day length change on brown egg laying domestic hens: Plasma Luteinizing hormone concentration and sexual maturity. *British Poultry Science*, 35: 25-31.

Liddle, G.W.E., Step, H.L., Kendall, J.W., Carter-William, W. and Towns, A.W. 1959. Clinical application of a new test of pituitary reverse. *Journal of Clinical Endocrinology and Metabolism*, 19: 875-894.

Limonta, P , Dondi, D., Maggi, R., Martini, L. and Piva, F. 1988. Effects of ageing on pituitary and testicular luteinizing hormone releasing hormone receptors in rats. *Life Sciences*, 42 : 335-342.

Lofts, B. 1962. Photoperiod and the refractory period of reproduction in an equatorial bird *Quelea quelea*. *Ibis*, 104: 407-414.

Magdi, T.A.M. and Hutson, T.M. 1974. The effect of administration of dexamethasone and adrenocorticoids on ²²Na retention, water consumption and gland weights of cockreals. *Poultry Science*, 53 :2229-2231.

Marion, J.E., Woodroof, J.G. and Cook, R.E. 1965. Some physical and chemical properties of eggs from hens of five different stocks. *Poultry Science*, 44: 529-534.

Marks, H.L. 1971. Selection for four-week body weight in Japanese quail under two nutritional environments. *Poultry Science*, 50 : 931-937.

Marshall, A.J. and Disney, H.J. de S. 1956. Photostimulation of an equatorial bird (*Quelea quelea* Linn.). *Nature*, London, 177: 143-144.

May, J.D. 1978. Effect of fasting on T3 and T4 concentration in chicken serum. *General and Comparative Endocrinology*. 34: 323-327.

McDaniel, G.R. 1985. Factors affecting broiler breeder performance 6. The relationship of pre-molt performance to post molt performance. *Poultry Science*, 64: 2267-2272.

McIndole, W.M. 1959. A lipophosphoprotein complex in hen plasma associated with yolk production. *Biochemical Journal*, 72: 153-159.

Menaker, M. 1965. Circadian rhythms and photoperiodism in *Passer domesticus*. In *Circadian Clocks : Proceedings of the Felfafing Summer School* (ed. J Aschoff). pp. 385-395, North-Holland, Amsterdam.

Morris, T.R. 1963. The effect of changing day lengths on the reproductive responses of the pullet. *Proceedings XII World Poultry Congress*, Symposia Reports. pp. 115-124.

Morris, T.R. 1967. The effect of light intensity on growing and laying pullets. *World's Poultry Science Journal*, 38 : 536-543.

Morris, T.R. 1968. Light requirements of the fowl. in: CARTER, T.C. (Ed.) *Environmental Control in Poultry Production*, pp. 15-39. Edinburgh, Oliver & Boyd.

Morris, T.R. 1994. Lighting for layers : What we know and what we need to know. *World's Poultry Science Journal*. 50 : 283-287.

Morris, T.R., Fox, S. and Jennings, R.L. 1964. The response of laying pullets to abrupt changes in day length. *British Poultry Science*, 5:133-147.

Murton, R.K. and Kear, J.J. 1978. Photoperiodism in waterfowl phasing of breeding cycles and zoogeography. *Journal of Zoology*. 186: 243-283.

Nagra, C.L. and Meyer, R.K. 1963. Influence of corticosterone on the metabolism of palmitate and glucose in cockerel *General and Comparative Endocrinology*, 73:131-138.

Nagra, C.L., Savers, A. K. and Wittamaier, H. W. 1965. Effect of testosterone, progesterone and metapirone on adrenal activity in cockerels. *General and Comparative Endocrinology*, 5: 69-73.

Oishi, T. and Konishi, T. 1978. Effects of photoperiod and temperature on testicular and thyroid activity of Japanese Quail. *General and Comparative Endocrinology*, 36: 250-254.

Okumura, J., Mori, N., Muramatsu, T. and Tasaki, I. 1988. Analysis of the factors affecting year round performance of single comb white leghorn laying hens reared under a open-sided housing system. *Poultry Science*. 67: 1130-1138.

Palmero, S., deMarchis, M., Gallo, G. and Fugassa, E. 1989. Thyroid hormone affects the development of sertoli cell function in the rat. *Journal of Endocrinology*, 123 : 105-111.

Palmero, S., Benahmed, M., Morera, A.M., Trucchi, P. and Fugassa, E. 1992. Identification of nuclear tri-iodothyronine receptors in sertoli cells from immature piglet testis. *Journal of Molecular Endocrinology*, 9 : 55-59.

Palmero, S., Prati, M., deMarco, P., Trucchi, P. and Fugassa, E. 1993. Thyroidal regulation of nuclear tri-iodothyronine receptors in the developing rat testis. *Journal of Endocrinology*, 136 : 277-282.

Panda, P.C. 1995, Formation, structure, food value and chemical composition of eggs. In : "*Textbook of egg and poultry technology*", pp. 1-11.

Pankakoshi, E. and Klaus, M.T. 1982. Relation of adrenal weight to sex, maturity and season in five species of small mammals. *Ann. Zool. Fenn.*, 19 : 225-232.

Parkinson, T. L. 1966. The chemical composition of eggs. *Journal of Agricultural Sciences*, 17: 101-111.

Patel, C.D. 1982. Certain investigations on the involvement of pineal in general metabolism and seasonal physiology of the feral blue rock pigeons, *Columba livia*. *Ph.D. Thesis, M.S.University of Baroda, India*.

Patel, C.D., Ramachandran, A.V., Asnani, M.V. and Shah, R.V. 1985. Seasonal histological alterations in thyroid and adrenal glands of

pinealectomised wild pigeons, *Columba livia*. *Journal of Animal Morphology and Physiology*, 32: 153-160.

Patel, M.M. and Ramachandran, A.V. 1986. Seasonal alterations in sodium and potassium ions and water content in the gonads of normal and pinealectomised domestic pigeons, *Columba livia*. *Journal of Animal Morphology and Physiology*, 33: 51-58.

Patel, C.S. 1993. Pineal, pineal indoles and photoperiodism in relation to seasonal reproductive functions and metabolic physiology of male feral blue rock pigeons, *Columba livia*. Ph.D. thesis, M.S.Univeristy of Baroda. pp. 1-197.

Patton, A. R. and Palmer, L. S. 1958. The amino acid content of eggs and chicks : In relation to diet and to incidence of chondrodystrophy. *Biochemical Journal*, 2:187-196.

Payne, C.G. 1975. Daylength during rearing and the subsequent egg production of meat strain pullets. *British Poultry Science*, 16: 559-563.

Petitle, J.N. and Etches, R.J. 1991. Daily infusion of corticosterone and reproductive function in the domestic hen (*Gallus domesticus*). *General and Comparative Endocrinology*. 33: 397-405.

Proudfoot, F.G. 1980.. Effect of dietary protein levels, ahemeral light and dark cycles, and intermittent photoperiods on the performance of chicken broiler parent genotypes. *Poultry Science*, 59: 1258-1267.

Raheja, K.L. and Snedecor, J.G. 1970. Comparison of subnormal multiple doses of L-thyroxine and L-triiodothyronine in propylthiouracil-fed and radio-thyroidectomized chicks (*Gallus domesticus*). *Comparative Biochemistry and Physiology*, 37 : 555-563.

Raheja, K.L., Snedecor, J.G. and Freedland, R.A. 1971. Effect of propyl thiouracil feeding on glycogen metabolism and malic enzyme in the liver of the chick (*gallus domesticus*). *Comparative Biochemistry and Physiology*, 39B: 833-842.

Rahn, 1976. Seasonal commercial egg production curve differences. *Poultry Science*. 55: 1302-1312.

Ramachandran, A.V. and Patel, M.M. 1986. Seasonal histomorphological alterations of adrenal and thyroid in normal and pinealectomized domestic pigeons *Columba livia*. *Indian Journal of Experimental Biology*, 24 :755-759.

Ramachandran, A.V.; Patel, C.D., Asnani, M.V. and Shah, R.V. 1987. Seasonal histomorphological changes in the gonads of normal and pinealectomised feral blue rock pigeons, *Columba livia* (Gmelin). *Monitore Zool. Ital. (N.S.)*, 21: 1-10.

Ramachandran, A.V. and Patel, M.M. 1988. Histomorphological alterations in gonads of normal and pinealectomized domestic pigeons, *Columba livia*, during breeding and post-breeding phases. *Indian Journal of Experimental Biology*, 26: 835-838.

RamaRao, A.V.S.S. 1986. *Text Book of Biochemistry*, fifth ed., pp. 1-515. L.K. & S. Publishers, Tanuka, A.P.

Renden, J.A. and Oates, S.S. 1989. Sexual maturity in broiler breeder pullets. *Poultry Science*, 68 (suppl.1) : 120 (Abstr.).

Renden, J.A., Lien, R.J., Oates, S.S. and Bilgili, S.F. 1994. Plasma concentration of corticosterone and thyroid hormones in broilers provided various lighting schedules. *Poultry Science*, 73: 186-193.

Rhodes, D.W. and Lea, C.H. 1956. Phospholipids. *Biochemical Journal*, 65: 526-533.

Riddle, O., Honeywell, H.E. and Fischer, W.I. 1924. as cited by Holmes, W.N. and Phillips, J.G. "Adrenal cortex of Birds" pp. 291-340. In: *Gen. Clin. And Comp. Endocrinol. of Adrenal Cortex*, pp. 1-146. Academic Press, London, New York, San Francisco.

Riemenschneider, R.W., Ellis, N.R. and Titus, H.W. 1938. The fatty acids in the lecithin and glycerides fractions of egg yolk. *Journal of Biological Chemistry*, 126: 255-263.

Ricklefs, R.E. 1977. Composition of eggs of several bird species. *Auk*, 94: 350-356.

Rolland, D.A., Sr. and Brake, J. 1982. Influence of premolt production on post-molt performance with explanation for improvement of egg production due to force moulting. *Poultry Science*. 61: 2473-2481.

Romanoff, A.L. and Romanoff, A.J. 1949. "The avian egg". New York, Wiley.

Rowan, W. 1926. On photoperiodism, reproductive periodicity and the annual migration of birds and certain fishes. *Proceedings of Boston Society of Natural history*, 38: 147-189.

Rudas, P. and Pethes, G. 1984. Studies on the conversion of thyroxine to 3,5,3'-triiodothyronine in normal and thyroidectomized chickens. *General and comparative Endocrinology*, 54: 154-161.

Roca, P., Sainz, F., Gonzalez, M. and Alemony, M. 1982. Energetic components in the unincubated egg fractions of several avian species. *Comparative Biochemistry and Physiology*, 72B: 439-443.

Roca, P., Sainz, F., Gonzalez, M. and Alemony, M. 1984. Structure and composition of the eggs from several avian species. *Comparative Biochemistry and Physiology*, 77A-2: 307-310.

Sainz, F., Gonzalez, M., Roca, P. and Alemony, M. 1983. Physical and chemical nature of eggs from six breeds of domestic fowl. *British Poultry Science*, 24: 301-309.

Saadoun, A., Simon, J. and Leclercq, B. 1987. Effect of exogenous corticosterone in genetically fat and lean chickens. *British Poultry Science*, 28: 519-528.

Sandoval, D.M. and Gernat, A.G. 1996. Evaluation of early feed restriction on egg size and hen performance. *Poultry Science*, 75: 311-314.

Sato, K. and Glick, B. 1970. Antibody and cell mediated immunity and corticosteroid-treated chicks. *Poultry Science*, 49 : 982-986.

Scanes, C.G., Harvey, S., Morgan, B.A., Hayes, M.A. 1981. Effect of synthetic thyrotropin-releasing hormone and its analogues on growth hormone secretion in domestic fowl (*Gallus domesticus*). *Acta Endocrinology*, 97: 448-453.

Scanes, C.G., Harvey, S., Marsh, J.A. and King, D.B. 1984. Hormones and growth in poultry. *Poultry Science*, 63: 2062-2074.

Seifter, S., Dayton, S., Novic, B., Muntwyer, E., 1950. The estimation of glycogen with anthrone reagent. *Arc. Biochem.*, 25 : 191-200.

Shortland, F.B 1951. The fatty acid composition of egg yolk lipids. *New Zealand J. Sci. Tech.*, 33B: 224-229.

Shanawany, M.M., Sorensen, P. and Pirchner, F. 1993. Genotypic differences in speed and magnitude of response to ahemeral lighting. *British Poultry Science*, 34: 881-886.

Shanawany, M.M., Morris, T.R. and Pirchner, F. 1993. Influence of sequence length on the response to ahemeral lighting late in lay. *British Poultry Science*, 34: 873-880.

Sharp, P.J. 1993. Photoperiodic control of reproduction in the domestic hen. *Poultry science*, 72: 897-905.

Sharp, P.J. and Beauving.G. 1978. The role of corticosterone in the ovulatory cycle of the hen. *Journal of Endocrinology*, 78: 195-200.

Sharp, P.J., Dunn, I.C., and Cerolini, S. 1992. Neuroendocrine control of reduced persistence of egg laying in domestic hens : Evidence for the development of photorefractoriness. *Journal of Reproduction and Fertility*. 94 : 221-235.

Sibbald, I.R. 1979. The gross energy of avian eggs. *Poultry Science*, 31: 31-34.

Siegel, P.B., Gross, W.B. and Dunnigton, E.A. 1989. Effect of dietary corticosterone in young Leghorn and meat- type cockerels. *British Poultry Science*, 30: 185-192.

Singh, D. 1993. Pineal-adrenal axis in reproductive functioning and metabolic physiology of birds. Ph.D. Thesis, M.S.University of Baroda, Baroda.

Singh, A., Reineke, E.P. and Ringer, R.K. 1968. Influence of thyroid status of the chick on growth and metabolism, with observation on several parameters of thyroid function. *Poultry Science*, 47 : 212-129.

Singh, A and Prashad, O. 1978. Precocious sexual maturity and enhanced egg production in chickens given goitrogen at an early age. *British Poultry Science*, 19: 521-527.

Soliman, K.F.A. and Hutson, T.H. 1974. Adrenal gland in ovulation of the fowl. *Poultry Science*, 53 : 1664-1667.

Sterling, K., Brenner, M.A. and Newhlan, E.S. 1970. Conversion of thyroxine to triiodothyronine in normal human subjects. *Science*, 163 : 1099-1100.

Sturkie, P.D. 1986. " *Avian Physiology*. pp: 1-516, Springer-Verlag Newyork Berlin Hiedelberg Tokyo.

Svensson, S.A. 1964. Composition and energy content of eggs, growing chicks and hens with some notes on preparation and methods of analysis. *Lantbr-Hogsk Annir*. 30 : 405-442.

Sykes, A.H. 1956. Short day-length and egg production in the fowl. *Journal of Agricultural Science*, 47: 429-434.

Thapliyal, J.P. 1981. *Endocrinology of avian reproduction*. Ind. Sci. Congr. 68th, Varanasi, India, Presidential address, sec. Zool. Entomol. Fish.

Thapliyal, J. P. and Pandha, S.K. 1967a. Thyroid and the hypophyseal-gonadal axis in the female spotted munia, *Uroloncha punctulata*. *General and Comparative Endocrinology*, 8: 84-93.

Thapliyal, J.P. and Pandha, S.K. 1967b. Thyroidectomy and gonadal recrudescence in lal munia, *Estricala amandara*. *Endocrinology*, 81: 915-918.

Theodoropoulos, T.J. 1985. Somatostatin is a regulator of thyrotropin secretion in the perinatal rat. *Endocrinology*, 117: 1683-1686.

Tucker, S.A. and Charles, D.R. (1993) Light intensity, intermittent lighting and feeding regimen during rearing as affecting egg production and egg quality. *British Poultry Science*, 34: 255-266.

Washburn, K.W. 1979. Genetic variation in the chemical composition of the eggs. *Poultry Science*, 58: 529-535.

Wigfield, J.C., Follet, B.K., Matt, K.S. and Farner, D.S. 1980. Effect of day length on plasma FSH and LH in the castrated and intact white-crowned sparrows. *General and Comparative Endocrinology*, 42 :464.

Williams, J.B. and Sharp, P.J. 1978. Ovarian morphology and rates of ovarian follicular development in laying broiler breeders and commercial egg producing hens. *British Poultry Science*, 19 : 387-395.

Williamson, R.A. and Davison, T.F. 1987. Effect of increased circulating corticosterone on serum and thyroidal concentration of iodothyronines and the response to thyrotropin in the immature fowl (*Gallus domesticus*). *General and Comparative Endocrinology*, 65 : 65-72.

Wilson, S.C. and Cunningham, F.J. 1980. Effect of increasing day length and intermittent lighting schedules in domestic hen on plasma concentration of luteinizing hormone (LH) and the LH response to exogenous progesterone. *General and Comparative Endocrinology*, 41 : 546-553.

Wilson, S.C. and Lacassagne, L. 1978. The effects of dexamethasone on plasma luteinizing hormone and oviposition in the hen. *General and Comparative Endocrinology*, 35 : 16-26.

Winchester, C.I. and Davis, G.K. 1952. Influence of thyroxine on growth of chicks. *Poultry Science*, 31: 31-34.

Winton. A.L. and Winton. K.B. 1993. "Poultry eggs". Ed. Dr. R.L.Lakhotia. Agro botanical Pub.Ind.

Yadav, N.K. and Arneja, D.V. 1993. Effect of altered thyroid status on body weight and feed intake of white leghorn chicks. *Indian Journal of Poultry Science*, 28(3): 253-255.