

BIBLIOGRAPHY

- Abraham, A.D. and Istran, I. 1978. Action of hydrocortisone hemisuccinate on glycogen neogenetic pathway in rat thymus. Trav. Mus.Hist.Nat.Grigore Antipa., 19: 103-106.
- Acuna, C., Mercedes, L. and Olgae, M.M. 1977. Intraspecific variations in the blood glucose of Iguana iguana in relation to its reproductive cycle. Acta.Cient. Venez., 28 (2): 145-149.
- Adams, 1968. Cited by Wells, J.W. and Wight, P.A.L. "The adrenal glands" pp.489-516. In: Physiology and Biochemistry of Domestic fowl. pp.1-601. (eds.) Bell, D.J. and Freeman, B.M. 1971. Academic press, London, New York.
- Addison, T. 1855. As cited by Robert Gaunt. "History of adrenal cortex" pp.1-12. In. Hand Book of Physiology Sec 7. Vol. VI. Endocrinology, Adrenal Gland, pp.1-742.
- Hermann, B., George, S. and David, A.S. (eds.) 1975. American Physiological Society, Washington D.C.
- Ahmad, M.M. and Alim, B. 1977. A comparative study of effects of hydrocortisone and adrenaline on blood glucose level and liver glycogen content in frog, Rana tigrina and Uromastix hardwickii. Biologia, 28(2): 255-262.

- Allen, J.M. and Slater, J.J. 1956. The influence of hormones upon the distribution of alkaline phosphatase in mouse adrenal cortex. J. Histochem. Cytochem., 4: 110-117.
- Alterman, K. 1956. as cited by Chowdhury, A.R. and Chatterjee, A.K 1978.
- Ambadkar, P.M. and Gangaramani, N.F. 1981. Early influence of testosterone propionate administration on hepatic recovery in castrated male albino rats. J. Anim. Morphol. Physiol., 28(1 & 2) 195-205.
- Ambadkar, P.M. and Kotak, V.C. 1976. Observations on cyclic histochemical variations of lipids and steroid dehydrogenases in testis of feral blue rock pigeon, Columba livia. Pavo, 14: 80-87.
- Ambadkar, P.M. and Chauhan, B.C. 1976. Observations on reproductive cycle of Indian house crow, Corvus splendens (Vieillot) I. Histomorphological study of annual testicular cycle. Pavo, 14 : 65-79.
- Amet, Y., Jean-herve, A., Jean-Yves, D., Marie-Lise, T. and Herve-Henri, F. 1982. Evidence and characterization of an androgen receptor in the preen gland of adult male quail, C. japonica. C R Seances Acad Sci Ser III Sci Vie., 295 (9): 523-528.

Annison, E.F., Scott, T.W., and Waites, G.M.H. 1963. The role of glucose and acetate in the oxidative metabolism of the testis and epididymis of the ram. Biochem. J., 88: 482.

Andrews, M.J. and Turner, J.M. 1966. Pyridoxal and pyridoxamine phosphate breakdown by an acid phosphatase preparation. Nature, (London) 210. 1159.

Aron, M. and Benoit, J. 1934. Sur le conditionnement hormonique du développement testiculaire chez les oiseaux : Rôle de la thyroïde. CR Soc Biol., 218-220.

Asnani, M.V., Patel, P.V., Pilo. B. and Shah, R.V. 1976. Studies on developing avian liver 3. Ascorbic acid level in the liver and kidney of pigeon during post hatching development. Pavo, 44: 35-40.

Aoyagi, T., Katsuko, K., Hajime, L. and Yusho, M. 1981. The effects of di-butyryl cyclic AMP and related compounds on the outgrowing epidermis in vitro. J. Dermatol., (Tokyo) 8 (2): 83-90

J.

Assenmacher, I. and Boissin, J. 1972. Circadian endocrine and related rhythms in birds. Gen. Comp. Endocrinol. Suppl., 3: 489-498.

- Aznar, M.A., Romeroz, A., Herrera, J.E., Diaz, M.G. and Aznar, A. 1978. Effects of ACTH administration on liberation of testosterone by the Leydig cells. Rev. Esp. Fisol., 34 (1): 97-102.
- Balasubramanium, K., Pereira, M.J., Michael A.M. and Govindarajulu, P. 1984. In: Abstracts of Proceedings of the fourth Annual symposium on reproductive biology and comparative endocrinology pp.47. 7-8 June, 1984. Madras.
- Banerjee, S. and Ghosh, N.C. 1947. Relation of scurvy to glucose tolerance test, liver glycogen and insulin content of pancreas in guinea pigs. J. Biol. Chem., 168: 207 - 211.
- Banerjee, A.B. and Ganguli, N.C. 1962. Metabolic studies on scorbutic guinea pigs. II. Hepatic glycogen synthesis in vitro and in vivo. J. Biol. Chem., 237: 14-18
- Barker, C.J. 1976. Sub-mammalian vertebrate hypothalamic-pituitary-adrenal interrelationships pp-143-206. General comparative and clinical endocrinology. pp. 1-461. (Eds.) Chester Jones, I. and Henderson, I.W. 1976. Academic Press. London, New York, San Francisco.

- and*
- Baum, G.I. & Meyer, R.K. 1960. Effect of adrenal steroids and diethylstilbestrol on growth and fat content of cockerels. Amer. J. Physiol., 198: 1263-1266.
- Bartolomeo Eustacchio 1563. as cited by Robert Gaunt. "History of adrenal cortex" pp 1-12. In: Hand Book of physiology. Sec.7. Vol. VI. Endocrinology, Adrenal Gland. pp.1-742. Hermann, B.; George, S. and David. A.S. (Eds) American Physiological Society Washington D.C. 1975.
- Barysan, U.M. 1980. Lipid metabolism in testicles of boars of different ages. VYESTSI Akad Navuk BSSR SYER SYEL SKAHASPAD NAVUK, O (3) : 121-124.
- Bayle , J.D., Boissin, J., Daniel, J.Y. and Assenmacher, I. 1971 . Hypothalamic-hypophysial control of adrenal cortical function in birds. Neuroendocrinology, 7; 308-321.
- Bellamy, D. and Leonard, R. 1965. Effect of cortisol on growth of chicks. Gen. Comp. Endocr., 5 : 402-410.
- Berridge, M.J. and Rapp, P. 1977. Cyclic nucleotides, calcium and cellular control mechanisms. In: Cyclic 3', 5' - Nucleotides: Mechanisms of action. (eds). Cramer, H. and Schultz, J. pp. 1-387. John Wiley and Sons, London.

- Bengt, S. 1979. Activity of adrenal glands in pied flycatcher, Ficedula hypoleuca and its relation to testicular regression. Gen. Comp. Endocrinol., 38(2) : 162-171.
- Benoit, J., Assenmacher, I. and Brard, E. 1956. Etude de l'évolution testiculaire du canard domestique soumis très jeune à un éclairement artificiel permanent pendant deux ans. C.R. Acad. Sci., 242: 3113-3115.
- Bentley, 1974. In: Text book of comparative endocrinology. pp. 1-453. Chapter II. Adrenal cortex and interrenal gland. pp. 279-339. By P.J. Bentley. 1974 edition, John Wiley and Sons, London.
- Berridge, M.J. 1975. Control of cell division: A unifyifying hypothesis. J. Cyclic. Nucl. Res., 1 : 305-320.
- Beriz, A., Lundholm, L. and Mohmeludholm, E. 1977. cAMP as a mediator of hormonal metabolic effect in brown adipose tissue. Acta. physiol. Scand., 81:145-156.
- Bhatta, G.K. and Nadkarni, V.B. 1984. Seasonal changes in the interrenal gland of an apodan amphibian, Ichthyophis beddomii (peters). Paper presented at Symposium on Abst. No. 93, p.p. 93, Comparative Endocrinology, Dec. 29-31, 1984. Dept. of Zoology, Banaras Hindu University, Varanasi.
- Bhattacharyya, T.K. and Ghosh, A. 1965. Seasonal histophysiological study of interrenal of the house sparrow. Acta biol. hung., 16:69-77.

- Bhattacharyya, T.K. and Ghosh, A. 1970. Histomorphic changes following chronic adrenocortical activation and inhibition in the pigeon. J. Morphol., 130 : 257-270.
- ^{kumar, T.}
Bhattacharyya, T.K. and David, G.B. 1980. Ultrastructure of adrenocortical homologue in dexamethasone treated eels, (Anguilla rostrata). J. Anat., 130(2) : 323-332.
- Bialy, G. and Pincus, G. 1967. Hormonal influence on phosphatase activity of rat accessory sexual glands. Endocrinology, 81 : 1125-1131.
- Biswas, N.M. 1969 a. Ascorbic acid biosynthesis of toad kidney as related to experimental alterations of pituitary gonadotrophic hormones. Life Sci., 8 : 362-368.
- ^β
Biswas, N.M. 1969b. Δ^5 - β -hydroxy-steroid dehydrogenase in toad testis. Synergistic action of ascorbic acid and leutinising hormone. Endocrinology, 85 : 981-983.
- Biswas, N.M. and Deb, C. 1970. In vitro studies on effects of ascorbic acid and dehydroascorbic acid on Δ^5 - β -HSDH in toad testis. Endocrinology, 87 : 170-173.
- Bittman, E.L. and Zucker, I. 1977. Influences of adrenal gland and photoperiod on hamster estrous cycle. J. Reprod. Fertil., 50(2) : 331-334.
- Blackshaw, A.W. 1963. The enzymatic activity of mouse testis. Australian J. Biol. Sci., 16 : 482.

- Blackshaw, A.W., and Samisoni, J.I. 1967. Histochemical localization of some dehydrogenase enzymes in the bull testis and epididymis. J. Dairy Sci., 50 : 747-752.
- Blank, M.L. and Snyder, F.L. 1970. Specificities of alkaline and acid phosphatases in dephosphorylation of phospholipids. Biochemistry, 9 : 5034-5036.
- Boas, N.F. 1958. The effects of deoxycorticosterone acetate on testes size and function in the cockerels. Endocrinology, 63 : 323.
- Boissin, J. and Assenmacher, I. 1968. Rythmes circadiens des taux sanguin et surrénalien de la corticostérone chez la caille. D.Sc. Thesis. University of Montpellier, France, No.A.O. 7972.
- Bouille, C., Boissin, J., Daniel, J.Y. and Assenmacher, I. 1969. Fluorometric assay of corticosterone after purification by bidimensional thin layer chromatography in birds. Steroids, 14 : 7-20.
- Bradfield, J.R.G. 1951. Phosphatases and nucleic acids in silk glands: Cytochemical aspects of fibrillar protein secretion. Quart. J. Micr. Sci., 92 : 87-112.
- Braum, W. and Shiozawa, C. 1973. Cyclic AMP and phosphodiesterase levels in tumour cells. In: Prostaglandins and cyclic AMP : Biological actions and clinical applications. pp 21-23. Khan, R.H. and Lands, W.E.M. (eds.) Academic Press, New York.

- Braunstein, A.E. and Kitzmann, A.G. 1937. *Metabolism of aminoacids*. In: Biochemistry (eds) James, E. and Otto, N. 1970, pp. 338-395. 8th edition, C.V. Mosby Co. Saint Louis and Toppan Company Ltd., Tokyo, Japan.
- Britton, D.R., Varela, M., Garcia, A. and Rosenthal, M. 1986. Dexamethasone suppresses pituitary, adrenal but not behavioural effect of centrally administered CRF. Life Sci., 38(3) : 211-216.
- Brown, K.I., Brown, D.J. and Meyer, R.K. 1958. Effect of surgical trauma, ACTH and adrenal cortical hormones on electrolytes, water balance and gluconeogenesis in male chickens. Amer. J. Physiol., 192 : 43.
- Brown, J., McLean, P. and Greenbaum, A.L. 1966. Influence of thyroxine and luteinizing hormone on some enzymes concerned with lipogenesis in adipose tissue, testis and adrenal gland. Biochem. J., 101 : 197-201.
- Brown-Sequard, C.E. 1856. Recherches experimentales sur la physiologie et la pathologie des capsules surrenales. Compt. Rend., 43 : 422-425.
- Bulbring, E. 1940. As cited by Holmes, W.N. and Phillips, J.G. Adrenal Cortex of birds. pp. 292-420. In: General Clinical and Comparative Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press. London, New York, San Francisco.

- Burstone, M.S. 1962. Enzyme histochemistry and its applications in the study of neoplasm. pp. 1-164. Academic Press, New York.
- Butcher, R.W. and Sutherland, E.W. 1962. Adenosine 3',5' -mono phosphate in biological material. I. purification and properties of cyclic 3',5'-nucleotide phosphodiesterase and use of this enzyme to characterize adenosine 3',5'-phosphate in human urine. J.Biol.Chem., 237 : 1244-1250.
- Cadariu, M., Nicolas, P. and Iuliu, G. 1976. Activity of thyroid in the male roe-deer, Capreolus capreolus during the annual cycle. Stud.Univ.Babs.Bolyai.Biol., 21 : 57-64.
- Casper Bartholinus. 1611. Cited by Robert Gaunt. History of the adrenal cortex. pp. 1-12. In: Hand book of physiology. Section 7, Endocrinology. vol.VI, Adrenal gland. Hermann, B., George, S and David, A.S. (eds) 1975. American Physiological society, Washington DC.
- Castineiras, M.J., Guinovart, J.J., Itarte, E. and Rosell-Perez, M. 1977. Seasonal variations in frog liver glycogen metabolism. Rev.Esp.Fisiol., 33(4) : 311-316.
- Chalana, R.K. and Guraya, S.S. 1977. Seasonal fluctuations of ^{tua} cholesterol in ovarian compartments of birds. Ann.Biol.Anim.Biochem.Biophys., 17(6) : 1005-1012.
- Chalana, R.K. and Guraya, S.S. 1978. Histophysiological studies on the post-ovulatory follicles of the fowl ovary. Poult. Sci., 57 : 814-817.

- Chand, D., Arneja, V. and Arora, K.L. 1978. Relation to testicular ascorbic acid concentration and testicular development in Desi and White Leghorn poultry. Indian J.Exp.Biol., 16(6) : 676-678.
- Chan, S.W.C. and Phillips, J.G. 1973a. Secretion of 17-Deoxycorticosteroids by Herring gull, Larus argentatus adrenals. Gen. Compl Endocrinol., 20 : 274-282.
- Chan, S.W.C. and Phillips, J.G. 1973b. Variations in the in vitro production of corticosteroids by the Herring Gull, (Larus argentatus) adrenal glands. Gen.Comp.Endocrinol., 20 : 283-290.
- Chan, M.Y., Bradley, E.L. and Holmes, W.N. 1972. The effects of hypophysectomy on the metabolism of adrenal steroids in the pigeon, Columba livia. J.Endocrinol., 52: 435-450.
- Chandola, A. 1972. "Thyroid in reproduction : Reproductive physiology of Lonchura punctulata in relation to iodine metabolism and hyperthyroidism". A Ph.D. Thesis submitted to Banaras Hindu University, India.
- Chandola, A. and Thapliyal, J.P. 1974. Comparison of chemical, surgical and radiothyroidectomy in Spotted Munia, (Lonchura Punctulata). Gen. Comp. Endocrinol., 22:128-131.
- Chatterjee, A., 1967. As cited by Chowdhury, A.R. and Chatterjee, A.K. 1978.

- Chan, S.W.C. and Phillips, J.G. 1970. Rhythms in the production of corticosteroids in birds. J. Endocrinol., 48:XV-XVI.
- Chan, C.W.C., Daniel, K.O. and Norman, Y.S. Woo. 1978. Effect of cortisol on the metabolism of the eel, Anguilla japonica. Gen. Comp. Endocrinol., 35(3): 205-215.
- Chan, M.Y., Bradley, E.L. and Holmes, W.N. 1972. The effects of hypophysectomy on the metabolism of adrenal steroids in the pigeon, (Columba livia). J. Endocrinol., 52 : 435-445.
- Chatterjee, G.C. 1967. In: "The Vitamins". (eds.) Sebrell, J.W.H. and Harris, R.S.) Vol. I , Academic Press, New York.
- Chaturvedi, C.M. and Thapliyal, J.P. 1978. Effect of Orchidectomy and male hormone administration on the adrenal ^{of} common myna, (Acridotheres tristis). Ann.d'. Endocrinology, 8 (39): 417-420.
- Chaturvedi, C.M. and Thapliyal, J.P. 1980. Light response of thyroidectomy in common myna, Acridotheres tristis. Gen. Comp. Endocrinol., 42: 160-162.
- Chevremont, M. and Firket, H. 1953. Alkaline phosphatase of the nucleus. In: International review of cytology.II. Bourne, G.N: and Dawelli, J.F. (eds) Academic press. Inc. New York.

Cherkasova, I.S., Vereshchako, G.G., Mironova, T.M., Novik, V.A.,
Taits, M. Yu., Tsukhun, G.F. and Fomichenko, V.G.

1977. Some evidence on significance of adrenal hormones
in brain energy metabolism. Inst. Physiol. UKR.

BIOKhim. ZH., 49(4):15-18.

1.

Chester Jones, 1957. Cited by Holmes, W.N. and Phillips, J.G.

Adrenal cortex of birds: pp. 293-420. In: General, Clinical and Comparative Endocrinology. (eds.) Chester Jones, 1. and Henderson, I.W. (eds.) 1976. London, New York, San Francisco. pp. 1-461.

Chinoy, N.J. 1969. Source of electron energy for animal metabolism.

XX I. Role of ascorbic acid in the metabolism of avian muscle. Histochem., 19: 125-128.

Chinoy, N.J. 1970. Source of electron energy for animal metabolism. II. Role of ascorbic acid in the metabolism of insect tissues. The Nucleus, 13: 55-58.

Chinoy, N.J. 1972a. Ascorbic acid levels in avian tissue and its metabolic significance. Acta. Zool., 53:121-126.

Chinoy, N.J. 1972b. Ascorbic acid levels in mammalian tissues and its metabolic significance. Comp. Biochem. Physiol., 42(A): 945-952.

Chinoy, N.J., Sheth, K.M. and Shah, V.C. 1973. A comparative histophysiological study on the normal, castrated and testosterone treated levator ani muscle of rodents. Acta. Endocrinol., 74: 389-398.

Chinoy, N.J. and Seethalakshmi, L. 1977. Synergistic action of testosterone and ascorbic acid for maintenance of epididymal functions. Proc. Ist All India Cell Biology conference, Banaras, Jan. 13th-15th, India.

Chinoy, N.J. and Sheth, K.M. 1977. Effects of alloxan diabetes and insulin administration on sex accessory gland function of male albino rats. J.Anim. Morphol.Physiol., 24: 163-172.

Chinoy, N.J., Seethlakshmi, L. and Singh, Y.D. 1978. Beneficial role of ascorbic acid in vasectomy. Indian. J.exp.Biol., 16: 162-165.

Chinoy, N.J., Seethlakshmi, L. and Rao, M.V. 1978. Interaction of steroids with ascorbate via charge transfer complex function. 5th International Congress on Hormonal steroids. New Delhi.

Chinoy, N.J. and Rao, M.V. 1979. Inter-relationship between ascorbic acid and sex hormones in steroidogenic tissues and ascorbic acid synthesizing tissues of albino rats. J.Anim. Morphol.Physiol., 26: 36-43.

- Chowdhary, A.R. and Chatterjee, A.K. 1978. Effect of adrenalectomy on the testicular cells of immature rat. Indian. J.Exp. Biol., 16: 88-89.
- Christian, J.J. 1964. Effects of chronic ACTH treatment on maturation of intact female mice. Endocrinology, 74: 669-679.
- Cohen, S.R. 1979. Hand book of neurochemistry. Vol. III. Chapter-IV. Catabolic reactions in the nervous systems. Lajtha, A.(ed.) Plenum Press.
- Cook, K.M. 1960. The influence of the antithyroid drug, propyl-thiouracil on the reproductive tract in rats. Iowa. Acad.Sci., 67 : 463-467.
- Colomba, G. and Marcus, F. 1973. Activation of fructose 1-diphosphatase by potassium ions: loss upon conversion of "neutral" to "alkaline" form. J.Biol.Chem., 248: 2743-2745.
- Conti, M.R., Geremia, S.A. and Stefaⁿninily, M. 1981. Regulation of sertoli cell cAMP ^{pho} diesterase activity by FSH and dibutyryl cAMP. Biochim.Biophys.Res.Commun., 98(4): 1044-1050.
- Crawford, N. 1958. An improved method for determination of free and total cholesterol using ferric chloride reaction. Clin.Chem.Acta., 3 : 357-367.

Daniel, J.Y. and Assenmacher, I. 1969. Interrelations testiculoso-rénali Ennes Chez le canard. Gen.Comp.Endocrinol., 13 : 499-500.

Danielli, J.F. 1954. Cited by Burstone, M.S. 1962.

Dasgupta, P. and Bhattacharya, S.P. 1984. Histochemical localization and properties of acid phosphatases in testis of a passerine bird, red vented bulbul, Pycnotus cafer, Linnaeus. Indian. J. Exp. Biol., 22: 81-83.

Datta, M.J.S., Pandey, B.N., Choubey, B. and Pandey, P.K. 1978. Studies on cyclic activities of adrenocortical tissues and its relation with gonadal cycle in an air breathing fish, Heteropneustes fossilis. Zool. Beitr., 24(3):437-446.

Daugherty, D.R. and Callard, E. P. 1972. Plasma corticosterone levels in the male lizard, Sceloporus cyanogenys, under various physiological conditions. Gen.Comp. Endocrinol., 19: 69-79.

Dave, G., Goran, Maj-Lis., Johansson-Sjöbeck, Åke Tarsson, K. L. and Ulf Lüdman, 1979. The effects of cortisol on the fatty acid position of total plasma lipids in European eel, Anguilla anguilla. Comp.Biochem.Physiol. A. Comp Physiol., 64(1) 37-40.

Davis, W.W. and Garren, L.D. 1966. As cited by "The biosynthesis of corticosteroids throughout the vertebrates" pp. 1-142

In: General Clinical and Comparative Endocrinology of

Sandor, T., Fazekas, A.G. and

Adrenal Cortex. Vol. I. Chester Jones, I. and Henderson I.W. (eds.) Academic Press, London, New York, San Francisco. pp. 1-461.

David, L.S., Yung, S.D., Theresa, L.C. and David, F. 1980.

Evidence for a direct dexamethasone suppressive effect on the rat adrenal gland. Endocrinology, 107(1):137-146.

David, M.R., George, G.J. and Michael, S.B. 1982. Influence of ACTH and adrenalectomy on gonadotrophin secretion in immature rats. Neuroendocrinology, 34: 20-26.

Davidson, J.M., Rodgers, C.H., Smith, E.R. and Bloch, G.J. 1968. Stimulation of female sex behaviour in adrenalectomised rats with estrogen alone. Endocrinology, 82: 193-195.

H. Davson, M.B. Segal, 1980. In: Male trophic hormones and ovarian cycle in the female. pp 45-177. In: Introduction to physiology, Vol. 5-Control of reproduction pp. 1-547. Academic Press. London, Toronto, Sydney, Grune and Stratton: New York, San Francisco.

Deane, H.W. 1962. Hand buch der experimentellum pharmakologie. Vol. XIV part. I."The adrenocortical hormones". pp. 1-185. Springer-verlag, Berlin.

Deadhikari, H. and Bhattacharyya, S.P. 1982. Changes in the uropygial gland of juvenile male domestic pigeons following administration of 5α -dihydrotestosterone. Gen.Comp. Endocrinol., 48(3): 319-324.

- DeRitis, F., Collorti, M., and Glusho, G. 1956. A further contribution to the diagnostic and pathogenic significance of the variations of the serum transminase activity in virus hepatitis. Minerva Medica, 47:1-12.
- Dickens, F. and Simer, F. 1929. Observations on tissue glycolysis; the effect of fluoride and some other substances. Biochem. J., 23:936.
- Diel, J.F. and Jones, R.R. 1966. Effects of denervation and muscular dystrophy on amino acid transport in skeletal muscle. Amer. J. Physiol., 210: 1080-1085.
- Dieter, M.P. and Breitenbach, R.P. 1970. A comparison of the lympholytic effects of corticosterone and testosterone propionate in immature cockerels. Proc. Soc. Exp. Biol. Med., 123: 357-367.
- Dieter, M.P. and Breitenbach, R.P. 1971. Vitamin C in lymphoid organs of rats and cockerels treated with corticosterone or testosterone. Proc. Soc. Exp. Biol. Med., 137: 341-346.
- Dipietro, D.I. and Zengerle, F.S. 1967. Separation and preparation of three acid phosphatases from human placenta. J. Biol. Chem., 242: 3391-3396.
- Dittus, P. 1941. As cited by Barker, C.J. Sub-mammalian vertebrate hypothalamic-pituitary-adrenal interrelationships. pp 143-206. In: General, Comparative and

^{no}
clinical endocrinology pp. 1-464. Chester Jones, I. and
 Henderson, I.W. (eds.) 1976. London, New York, San
 Francisco.

Dokas, L.A. 1973. Increased RNA synthesis in nuclei isolated
 from rat liver tissue slices incubated with cyclic
 adenosine 3',5' monophosphate or glucagon. Arch. Biochem.
 Biophys., 159: 712-721.

Donaldson, E.M. and McBride, J.R. 1967. The effects of hypo-
 physectomy in the rainbow trout, Salmogairdneri with
 special reference to the pituitary interrenal axis.
Gen. Comp. Endocrinol., 9 : 93-101.

Drummond, G.I., Harwood, P. and Dowell, C.A. 1969. Studies
 on the activation of phosphorylase in skeletal muscle
 by contraction and epinephrine. J. Biol. Chem., 244 :
 4235-4240.

Ducharme, J.R., Morera, A.M., Lauri, P., Collu, R., Audi, L.,
 Jequier, J.C. and Saez, J. 1979. Further studies on
 the relationship of adrenals and gonadal steroids in
 pubertal development in female rats. Horm. Res., (Basel).
10 (2-3): 130-142.

Dulin, W.E. 1956. Effects of corticosterone, cortisone and
 hydrocortisone on fat metabolism in the chick. Proc.
 Soc. Exp. Biol. Med., 92 : 253-255.

- Dunn, A.M., Chenweth, N. and Hemingjon, J.G. 1971. The relationship of adrenal glucocorticoids to transaminase activity and gluconeogenesis in intact rat. Biochim. Biophys. Acta., 237(2): 192-202.
- Dusseaue, J.W. and Meier, A.H. 1971. Diurnal and seasonal variations of plasma adrenal steroid hormone in the white throated sparrow, Zonotrichia albicollis. Gen. Comp. Endocrinol., 16: 399-408.
- Duve, C., Wattiauz, R. and Baudhuin, P. 1962. Distribution of enzymes between subcellular particles in animal tissues. Advanc. Enzymol., 24: 291-358.
- Ebashi, S., Oosawa, F., Sakina, T. and Tonomura, Y. 1965. In: 'Molecular biology of muscular contraction'. pp-1-210. Academic Press. London. 1975.
- Eiler, H., Oliver, J. and Goble, D. 1979. Adrenal gland function in the horse. Am. J. Vet. Res., 40(5): 727-729.
- Etches, R.J. 1979. Plasma concentration of progesterone and corticosterone during the ovulation cycle of the hen, Gallus domesticus. Poult.Sci., 58(1): 211-216.
- Etches, R.J. and Simons, I.M. 1979. The effect of hypophysectomy upon corticosterone induced ovulation in hen, Gallus domesticus. Poult.Sci., 58(2): 473-477.
- Etches, R.J., McCutcheon, P.A., McBride-Warren and Brown, R.G. 1982. The ovulation inducing activity of highly

- purified ACTH in hen, Gallus domesticus. Comp.
Biochem.Physiol.A.Comp.Physiol., 71: 195-198.
- Elton, R.L. and Zarrow, M.L. 1955. Analysis of adrenal ascorbic acid and cholesterol in different species. Anat.Rec., 122: 473-474.
- Ewing, L.L., Baird, E.R. and Van Demark, N.L. 1966. Comparative metabolic activity of testis and kidney cortex slices of normal and hypoglycaemic chicken and rabbits. Comp.Biochem.Physiol., 17: 455.
- Ewing, L.L. Noble, D.J. and Ebner, K.E. 1964. Effect of epinephrine and competition between males on the in vitro metabolism of rabbits' testis. Can.J.Physiol.Pharmacol., 42 : 527.
- Ewing, L.L., Green, P.M., and Stebler, A.M. 1965. Metabolic and biochemical changes in testes of cotton rat, Sigmodon hispidus: during breeding cycle. Proc.Soc.Exp .Biol. Med., 118:911-916.
- Ewing, L.L. and Van Demark, N.L. 1963. II: Effect of temperature elevation in vivo on subsequent metabolic activity of rabbit testicular tissue in vitro. J. Reprod. Fertility, 6 : 9.
- Exton, J.H. 1972. Gluconeogenesis. Metab.Clin.Experi., 21 : 945-990.

- Feder, H.H., Brown-Grant, K. and Corker, C.S. 1971. Pre-ovulatory progesterone, the adrenal cortex and the critical period for luteinizing hormone release in rats. J. Endocrinol., 50: 29-39.
- Felig, P. 1975. Amino acid metabolism in man. Ann. Rev. Biochem., 44: 933-955.
- Findlay, G.M. 1920. Cited by Holmes, W.N. and Phillips, J. in "Adrenal Cortex of Birds". pp 293-420. In: General, Clinical and Comparative Endocrinology. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.
- Fiske, C.H. and Subbarow, Y. 1925. The calorimetric determination of phosphorus. J. Biol. Chem., 66 : 375-400.
- Flickenger, G.L. 1966. Effect of prolonged ACTH administration on the gonads of sexually mature chickens. Poult. Sci., 45: 753-761.
- Folch, J., Lees, M. and Stanley, G.H.S. 1957. A simple method for isolating and purifying of total lipids from animal tissues. J. Biol. Chem., 226: 497-509.
- Folin, O. and Malmros, H. 1929. Micromethod for glucose estimation in blood. J. Biol. Chem., 83: 115-120.
- Frankel, A.I., Graber, J.W. and Nalbandov, A.V. 1967a. Adrenal function in cockerels. Endocrinology, 80: 1013-1019.

Frankel, A.I., Graber, J.W. and Nalbandov, A.V. 1967b. The effect of hypothalamic lesions on adrenal function in intact and hypophysectomized cockerels. Gen.Comp.Endocrinol., 8:387-396.

Free, M.J. 1969. "Carbohydrate metabolism in the testis". pp 125-183. In: The Testis Vol. III, Biochemistry. Johnson, A.D., Gomes, W.R. and Van Demark, N.L.(eds.) 1970. Academic Press, New York and London.

Freeman, B.M. 1969. The bursa of fabricius and adrenal cortical activity in (Gallus domesticus). Comp.Biochem.Physiol., 29:639-646.

Freeman, B.M. and Manning, A.C.C. 1977. Response of immature fowl to a single injection of ACTH hormone. Br.Poult.Sci., 18(5):517-522.

Freeman, B.M. and Manning A.C.C. 1979. Habituation by the immature fowl in response to repeated injection of corticotrophin. Br.Poult.Sci., 20(4):391-400.

Freeman, B.M., Manning, A.C.C. and Flack, I.H. 1979. Habituation by the immature fowl in response to repeated injection of corticotrophin. Br.Poult.Sci., 20(4): 391-400.

Freeman, B.M., Manning, A.C.C. and Flack, I.H. 1980. Some responses of the immature fowl to the withdrawal ^a of a stressor. Br.Poult.Sci., 21(2):135-143.

- Freeman, G.P. and West, D. 1966. Complete separation of lipid classes on a single thin layer plate. J.Lipid.Res., 7:324-327.
- Fromme-Bouman, H. 1962. Jahresperiodische Untersuchungen an der amsel, Turdus merula. Die vogelwarde, 21:188-198.
- Gabe, M. 1970. The Adrenal, ^{Chapter 3. pp 263-318} In: Biology of Reptilia. pp 1-385. Vol. 3. MORPHOLOGY C. (Ed.) Carl Gans, (Co. ed.) Thomas Parsons . Academic Press, London and New York.
- Garnier, D.H.A., Tixier-Vidal, R., Gourdji, D. and Picart, R. 1973. Ultra structure of the leyding cells and sertola cells in the testicular cycle of pekin duck : Biochemical and cytoenzymological correlations. Z.Zellforsch Mikrask. Anat., 144:369-394.
- Garren, H.W., Hill, C.H. and Carter, M.W. 1961. Adrenal response of young chickens to adrenocorticotropic hormone as influenced by dosage and frequency of injection. Poult.Sci., 40:446-453.
- Garren, L.D., Ney, R.L. and Davis, W.W. 1965. as cited by Sandor, T., Fazekas, A.G. and Robinson, B.H. "The biosynthesis of corticosteroids throughout vertebrates". pp 1-142. In: General clinical and comparative Endocrinology of Adrenal cortex. pp 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.

- Garren, D.L., Whitley, L.S. and Zarrow, M.X. 1967. Ascorbic acid depletion and corticosterone production in the avian adrenal gland. Gen. Comp. Endocrinol., 9:422-427.
- Garren, L.D., Gill, G.N., Masini, H. and Walton, G.M. 1971. as cited by sandor, T. Fazekas, A.G. and Robinson, B.H. "The biosynthesis of corticosteroids throughout vertebrates. pp 1-142. In: General, clinical and comparative endocrinology of adrenal cortex. pp 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.
- K., Garstka, William., R., Andrew, H. and David. C. 1983. Metabolic changes in male snakes Thamnophis melanogaster during a breeding period. Comp. Biochem. Physiol. A Comp. Physiol., 74(4):807-812.
- Gasparska, Jolanta, Jolanta Kuryl. and Piotr Rybinski. 1982. Activity and electrophoretic forms of alkaline phosphatase and acid phosphatase in the reproductive system of laying hen. Acta. Physiol. Pol., 33(3):241-248.
- Ghosh, A. 1962. A comparative study of histochemistry of the avian adrenals. Gen. Comp. Endocrinol., Suppl., 1:75-80.
- Glick, B. 1957b. The effect of penicillin and cortisone on the bursa of fabricius. Poult. Sci., 36:1038-1041.
- Glick, B. 1957a. Experimental modification of the growth of the bursa of Fabricius. Poult. Sci., 36:18-23.

- Glick, B. 1959. The experimental production of the stress picture with cortisone and the effect of penicillin in young chickens. Ohio J. Sci., 59:81-87.
- Glick, B. 1960. Growth of bursa of fabricius and its relationship to adrenal glands in the white pekin duck, white leghorn-outbred and inbred. New hampshire. Poult. Sci., 39:130-139.
- Glick, B. 1967. Antibody and gland studies in cortisone and ACTH injected birds. J. Immunol., 98:1076-1084.
- Glick, B. 1972. Cortisone, age and antibody-mediated immunity. Int. Arch. Allergy Appl. Immunol., 43:766-771.
- Glick, B. and Dreesen, L.J. 1967. The influence of selecting for large and small bursa size on adrenal, spleen and thymus weights. Poult. Sci., 46: 396-402
- Gnanaprakasam, M.S. and Srivatstava, L.M. 1978. Effect of starvation, alloxan diabetes and adrenalectomy on Na⁺ K⁺ activated Adenosine triphosphatase of mucosa of small intestine of rat. Biochem. Exp. Biol., 14(3): 257-262
- Golden, W.R.C. and Long, C.N.H. 1942. The influence of certain hormones on the carbohydrate levels of the chick. Endocrinology, 30: 674-686.
- Goldman, A.S. and Yakovac, W.C. 1966. Experimental Congenital Adrenal Cortical Hyperplasia: Prevention of Adrenal Hyperplasia and clitoral Hypertrophy by corticosterone. Proc. Soc. exp. Biol. Med., 122: 1214-1216

Goodwin, T.W. 1960. Recent advances in biochemistry. (Churchill, London).

Greenman, D.L. and Zarrow, M.X. 1961. Steroids and Carbohydrate metabolism in the domestic bird. Proc. Soc. Exp. Biol Med., 106: 459-462.

Griffiths, K., Grant, J.K. and Symington, T. 1963. as cited by Sandor, T., Fazekas, A.G. and Robinson, B.H. "The biosynthesis of corticosteroids throughout vertebrates". pp. 1-142. In General, Comparative, and Clinical Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds) 1976. Academic Press, London, New York, San Francisco.

Guha, K and T. Vanha-pettula. 1983. Acid phosphatases in mouse testis: Activity changes during development. Arch. Androl., 10(1): 7-16.

Gupta, S.K. and B.R. Maiti, 1983. Estradiol involvement in Uropygial gland function in juvenile male domestic ducks. Monitor. Zool. Ital., 17(4): 347-352

Haack, D.W., Abel Jr., J.H. and Rhess, R.W. 1972. as cited in "Adrenal Cortex of birds" by Holmes W.N. and Phillips. J.G., pp. 293-420. IN: "General, Comparative and Clinical endocrinology of adrenal Cortex". Chester Jones I and Henderson I.W. (eds) pp 1-461. 1976. Academic Press, London, New York, San Francisco.

- Hafiez, A.A. and Bartke, A. 1972. Effect of hypophysectomy on Cholesterol metabolism. J. Endocrinol., 52: 321-326.
- Hagino, N., Watanabe, M. and Goldzieher, J.W. 1969. Inhibition by Adrenocorticotrophin of Gonadotrophin induced ovulation in immature female rats. Endocrinology, 84: 308
- Hollinger, M.A., and Davis, J.R. (1968). Aerobic metabolism of uniformly labelled (¹⁴C) glucose in tissue slices of rat testis. J. Reprod. Fertility, 17: 343.
- Hamner, W.H. 1968. The photorefractory period of House Finch. Ecology, 49; 211-227
- Harper, A.E. 1963. " Glucose-6-Phosphatase in enzymic analysis". Sergmeyer Hons-Ulrich (eds), PP. 758-792, Academic Press, New York.
- Harā, S. 1963. Thyroid and male sexual glands. II. Effects of thyroid and thyrotropic hormones on experimental testicular disturbances. Bull. Osaka. Med. School., 9: 229-234.
- Hasselback, W. 1964. Prog. Biophys. Molec. Biol., 14: 167. As cited by Khan, M.A. 1974.
- Hassel back, W. and Makinose, M. 1963. Biochem. Z., 339: 94. As cited by Khan, M.A. 1974.

Hazelwood, R.L. 1973. The avian endocrine Pancreas. Amer.

Zool., 13: 699-709

P.J. Heald, ^{H.G.} and Badman ^L 1963. as cited in "Physiology and Biochemistry of the Domestic fowl" Vol. I. 1971. (Eds.) pp. 1-601.
D.J.Bell and B.M. Freeman. Academic Press London
New York.

P.J. Badman, H.G., Wharton, J., Walwick, C.H. and Hooper, P.I. Heald, ^{J.} 1964. as cited in "Physiology and Biochemistry of the Domestic fowl". Vol. I. 1971. (Eds.) D.J.Bell and B.M.Freeman, Academic Press London, New York.

Heinkrikson, R.L. 1969. Purification and Characterization of a low molecular weight acid phosphatase from bovine liver. J.Biol. Chem., 244: 293-307.

Herrick, E.H., and Finerty, J.C. 1941. The effect of adrenalectomy on the anterior pituitary of fowl. Endocrinology, 27: 279

Hewitt, W.F. 1947. The essential role of adrenal cortex in the hypertrophy of the ovotestis following ovarieectomy in the hen. Anat. Rec. 98: 159.

Hilton, F.K. 1961. Relationship of testicular cholesterol to hormonal activity and behaviour in the starling. Proc. Soc. Exp. Biol. Med., 107: 653.

- Hoffman, R.A. 1960. Observations on Serum and gonad Cholesterol in pigeons. Endocrinology, 67:311.
- Hoffman, A.F. 1968. cited by Levin, R.J. 1976. The adrenal cortex and the alimentary tract. pp. 208-281. In: General, Comparative and Clinical endocrinology of adrenal cortex. (eds.) I. Chester Jones and I.W. Henderson. Vol.I. 1976. Academic Press, London, New York, San Francisco. pp. 1-461.
- Höhn, E.O. 1947. Sexual behaviour and seasonal changes in the gonads and adrenal of the mallard. Proc. Zool. Soc. Proc. London, 117:182-304.
- Höhn, E.O., Sarkar, A.K. and Dzubin, A. 1965. Adrenal weight in wild mallard and domestic ducks and seasonal adrenal weight change in the mallard. Can.J.Zool., 43:475-487.
- Holmes, W.N. and Adam, B.M. 1963. Adrenal cortex of birds. Endocrinology, 73:5-10.
- Holmes, W.N. and Phillips, J.G. 1976. The adrenal cortex of birds. Chapter 5. pp.293-420. In: General, Comparative and Clinical Endocrinology, of adrenal cortex, pp. 1-461. (eds.) Chester Jones, I. and Hendreson, I.W. Academic Press, London, New York, San Francisco.
- Holmes, W.N., Chan, M.Y., Bradley, J.S. and Stainer, I.M. 1970. cited by Holmes, W.N. and Phillips, J.G. 1976.

- Chapter 5. pp.293-420. In: General, Comparative and Clinical endocrinology of adrenal cortex. pp. 1-461. Chester, Jones, I. and Henderson. I.W. (eds.) Academic Press, New York, London, San Francisco.
- Idler, D.R., Sangalang, G.B. and Weisbart, M. 1971. cited by Sandor, T., Fazekas, A.G. and Robinson, B.H. 1976. *The biosynthesis of corticosteroids throughout the Vertebrates.* Chapter 2. pp.25-142. In: General, Comparative and Clinical Endocrinology of the adrenal cortex. pp.1-461. Chester, Jones, I. and Henderson, I.W. (eds.) Academic Press, London, New York, San Francisco.
- Ioan, O. 1978. Development of tissue fluid in adrenalectomized rats. Stad.Univ.Babes.Bolyai.Biol., 1:56-60.
- Ishibashi, H. and Catton, G.L. 1978. Cyclic AMP stimulated phosphorylation of liver pyruvate kinase in hepatocytes. Biochem.Biophys.Res.Commun., 85:900-905.
- Issekutz, B. Jr. 1977. Studies on hepatic glucose cycles in normal and methyl prednisolone treated dogs. Metab.Clin. Exp., 26(2):157-170.
- Jaap, R.G. 1933. Testis enlargement and thyroid administration induces. Poult. Sci., 12:233-241.
- Jacobson, C.D. and David, R.M. 1978. Influences of pineal and adrenal glands on proestrous release of hormones in rats maintained in a reduced photoperiod. Biol. Reprod., 18(5):712-718.
- Jacobs, J.J. and Peppler, R.D. 1977. Effects of chronic adrenalectomy and/or unilateral ovariectionomy on ovulation

- in the rat. J. Endocrinol., 75:(3) : 437-438.
- Jailer, J.W. and Boas, N.F. 1950. The inability of norepinephrine or adrenocorticotropic hormone to deplete the ascorbic acid content of the chick adrenal. Endocrinology, 46:314-318.
- Jallageas, M. and Assenmacher, I. 1973. Effects du jeune et de la castration sur la cintetique du metabolisme de la testosterone chez le canard. Gen.Comp.Endocrinol., 20:401-406.
- Jallageas, M. and Assenmacher, I. 1974. Thyroid gonadal interactions in the male domestic duck in relationship with the sexual cycle. Gen.Comp.Endocrinol., 22:13-20.
- Jallageas, M., Bons, N., Daniel, J.Y. and Assenmacher, I. 1978. The endocrine control of reproductive cycle in male ducks. PAVO, 16(1&2):67-68.
- Jean-Pier^eL., Philippe, T., Jean-claude, V., Jacques, A.M. and Henri, B. 1977. Reversible gonadotropin deficiency in male Cushings disease. Clin.Endocrinol.Metab., 45(3):488-495.
- Jha, M.K. 1986. The role of thyroid in the differentiation of germ cells in neonatal mouse, Mus musculus. A Ph.D. thesis submitted to University of Rajasthan, Jaipur, India.

pp.193-258.

Johnson, A.D. 1970. 'Testicular lipids' In: The Testis, Vol.II. Biochemistry. Johnson, A.D., Gomes, W.R. and Vandemark, N.L. (eds.) pp. 1-468. Academic Press, New York and London.

Johnson, B.H., Welsh, T.H.Jr. and Juniewicz, P.E. 1982.

Suppression of LH and testosterone secretion in bulls following ACTH treatment. Biol.Reprod., 26:305-310.

Joseph, M.M. and Meier. 1973. Daily rhythms of plasma corticosterone in the common pigeon. Gen.Comp.Endocrinol., 20:326-330.

Jonathan, B. 1978. Spleenic weights and their possible relationship to adrenocortical function in a wild population of Rousettus aegyptiacus(E).

Jones, T.M. 1974. In:"Comprehensive endocrinology". The adrenal gland Biosynthesis and Metabolism. (eds. James Vivian) Raven Press.

Jones, P.H., Johnson, D. and Robert, G.H. 1979. Direct inhibitory effect of dexamethasone on human adrenals in vivo. J.Clin. Endocrinol. Metab., 48:861.

Juelich, G., Syed, G.H., Dieter, P. and Hans Guenter, G. 1982. Seasonal changes in adenosine triphosphatase activity in the germinal cysts of testis of the common frog, R. temporaria: An enzyme histochemical study. Acta Histochem., 71(2): 191-199.

Juniewicz, P.E. and Johnson, B.H. 1984. Ability of cortisol and progesterone to mediate the stimulatory effect of ACTH/testosterone reduction by the porcine testis. Biol. Reprod., 30(1):134-142.

Justiniano, H.E., Galvez, M.D., Aznar, A.M., Gomez, S.M.M., Sendon, P.A., Zurita, A.R., Malagon, C.M. and Aznar, R.A. 1979. Changes in plasma levels of androstenedione, dehydroepiandrosterone and cortisol after stimulation with ACTH, hCG and suppression with dexamethasone during male puberty. Acta Endocrinol., 90(1):113-121.

Kapur, K. and Toor, H.S.: 1978. Seasonal changes in gonadal hydration associated with reproductive cycle in teleost fish, Cyprinus Carpio. Z. Angew. Zool., 65(2): 243-248.

Kanwar, K. C. and Veena Chaudhary. 1977. Adrenal testis interrelationship in male palm squirrel, Funambulus Pennanti (Wroughton). Endokrinologie, 69(3):287-292.

Kapur, K. and H.S. Toor. 1978. Seasonal changes in the gonadal hydration associated with reproductive cycle in teleost fish, Cyprinus Carpio. Z. Angew. Zool., 65(2): 243-248.

Kar, A.B. 1947. The adrenal cortex and testicular relations in the fowl: The effect of castration and replacement

therapy on the adrenal cortex. Anat. Rec., 99:
177-192.

Katsýa, G.V. and N.P. Goncharov. 1982. ACTH effect on hydrocortisone, testosterone and their precursor content in the peripheral blood of male sacred baboons. Probl. Endokrinol., 27(4):48-52.

Kerstein, H.S., Leonhäuser, S. and Staudinger, Hj. 1958. Ascorbiaureabhangige DPNH-Oxydase and Hydroxylierungreaktionen bei steroiden. Biochem. Biophys. Acta., 29:350-357.

Khan, M.A. 1974. Studies on some aspects of denervated pigeon breast muscle.^A Ph.D. Thesis submitted to M.S. University of Baroda, Baroda, India.

Khan, S.A., Zaidi, A.A., Qazi, M.H. and M. Arslan. 1977. Effects of ACTH on reproductive organs and oestrogen levels of Uromastyx hardwickii (Gray). Biologia(Lahore), 23(1): 1-6.

Kilkowska, K. and Kozlowska, K. 1969. Folio morph., Praha. 28:371-387, as cited in Chapter 4 - "Adrenal cortex and alimentary tract" - Levin, R.J. pp. 207-291. In: "General, Comparative and Clinical Endocrinology of the adrenal cortex". Vol. I. pp. 1-461 (Eds.) Chester Jones, I. and Henderson, I.W. 1976. Academic Press, London New York, San Francisco.

King, R.J.B. 1976. Intracellular reception of steroid hormones :
Essays. Biochem., 12:41-76.

Kjaerheim, A. 1968a. Studies of adrenocortical ultrastructure
3. Effects of dexamethasone and methoxyprogesterone
on interrenal cells of domestic fowl. Z. Zellforsch.
mikrosk. Anat., 91:456-474.

Kjaerheim, A. 1968b. as cited in Chapter 5. Adrenal cortex of
birds. pp. 292-420. Holmes, W.N. and Phillips. J.G.
In: General, Comparative and Clinical Endocrinology of Adrenal
Cortex,
pp. 1-461 (eds.). Chester Jones, I. and Henderson, I.W.
Academic Press, 1976; New York, London, San Francisco.

Kjaerheim, A. 1968c. Studies of adrenocortical ultrastructure.
5 - Effects of metopirone on interrenal cells of the
domestic fowl. J. Microsc., (Paris), 7:739-754.

Klockars, M. and Wagelius, D. 1969. The Lysosomal enzymes in
regenerating rat liver. Proc. Soc. Exp. Biol. Med.,
131:218-222.

Knouff, R.A. and Hartman, F.A. 1951. A microscope study of the
adrenal of the Brown Pelican. Anat. Rec., 109:161-178.

Knox, W.E. and Greengard, O. 1965. The regulation of some enzyme
of nitrogen metabolism - An introduction to enzyme
physiology. In: "Advances in enzyme regulation". Vol.III,
pp. 247-313. G. Weber (ed.) Pergman Press, Oxford.

Kornblatt, M.J., Abbey, K., and Fred, N. 1983. Characterization and localization of alkaline phosphatase activity in rat testis. Biol. Reprod., 29(1): 157-164.

M.

Kornfeld, 1957, as cited by Holmes, W.N. and Phillips, J.G. 1976. In Chapter 5 - Adrenal cortex of birds. pp. 293-420. In: "General, Comparative and Clinical Endocrinology" (Eds.) (Chester Jones, I. and Henderson, I.W.) 1976. Academic Press, London, New York, San Francisco.

Krueger, R., Wernert, N., Kubatsch, B., Klein, O. and Aatz, G. 1982. Sex dimorphism of adrenal cortex in rats after treatment with dexamethasone. Pathol. Res. Pract., 173(3):191-201.

Kugler, O.E., Frankenstein, P.W. and Rafferty, K.A. Jr. 1956. Histochemical localization of alkaline phosphatase, glycogen and nucleic acids in female reproductive organs of cockroach, P. Americana. J. of Morphology, 98:235-250.

Kumaran, J.D.S., and Turner, C.W. 1949. The endocrinology of spermatogenesis in birds, III. Effects of hypo and hyperthyroidism. Poultry Sci., 28:653-665.

Kutsky, R.J. 1973. Hand book of vitamins and hormones. Van Nostrand Company, New York.

Laborit, H. and Thuret, F. 1977. The action of hydrocortisone on the activity of the cerebral tyrosine transaminase and on the level of cerebral norepinephrine and dopamine : Physio-pathological deductions. Agressologie., 18(2):83-88.

Lamoureux, J. 1966. Thèse de Ph.D., Département de physiologie, Université de Montréal, Montréal, Québec, Canada.

Lamoureux, J., Sander, T. and Lanthier, A. 1964. Proc. 6th Int. Congr. Biochemistry. 32, VII - 90.

Langdon, J.S., Thorpe, J.E., and Roberts, R.J. 1984. Effects of cortisol and ACTH on gill N⁺ K⁺ Adenosine triphosphatase, succinate dehydrogenase of chloride cells in

- juvenile Atlantic Salmon. Salmo Salvar. Comp.Biochem.
Physiol. A Comp. Physiol., 77(1):9-12.
- Legait, H., and Legait, E. 1959. Variations d'activité du Système hypothalamo - neurohypophysaire et modifications surrénales chez la poule au cours du cycle annuel C.R. Soc.Biol., 153:668-670.
- Levine, S.Z., Marples, E.. and Gordon, H. 1941. In: "The vitamins" Vol. I. Sebrell, W.H. Jr. and Harris, R.S. Academic Press, New York, 1967.
- Lewin, S. 1975. "Vitamin C" : Its molecular biology and medical potential. Academic Press, London.
- Licht, P. and Bradshaw, S.D. (1969). A demonstration of corticotropic activity and its distribution in the pars distalis of the reptile. Gen.Comp.Endocr., 13:226-235.
- Li, C.H. and Evans, H.M. 1947. Vit.Horm., 5:197. as cited by Chowdhury and Chatterjee, 1978.
- Lofts, B. 1962. Photoperiodism and the refractory period of reproduction in an equatorial bird, Quelea quelea. Ibis., 104:407-414.
- Lofts, B. 1965. Seasonal lipid changes and their possible significance in the testis of anura. Proc.Int.Congr. Endocrinol., 2nd, 1964. Int.Congr.Ser. No. 83:100-105.

- Lofts, B. 1968. Patterns of testicular activity. In: "Perspectives in endocrinology: Hormones in lives of lower vertebrates". E.J.W. Barrington and C.B. Jrgenson, (eds.), pp.239-304. Acad. Press, New York.
- Lofts, B. 1969. Seasonal cycles in reptilian testis. Gen.Comp. Endocrinol., Suppl., 2:147-155.
- Lofts, B. 1974. In: "Physiology of Amphibia" Vol.2. pp. 107. Academic Press, New York, as cited in Avian testicular function in Pavo. Vol.16 (special volume); Nos. 1 and 2; pp. 12-22, 1978.
- Lofts, B. and Boswell, C. 1960. Cyclic changes in the distribution of the testis lipids in the common frog, Rana temporaria. Nature, 187:708.
- Lofts, B. and Boswell, C. 1961. Proc. Zool. Soc. Lond. In: Avian testicular function". by B. Lofts. Pavo. Vol.16 (special volume); Nos. 1 and 2; pp.12-22, 1978.
- Lofts, B. and Lam, W.L. 1978. Circadian regulation of gonadotrophin secretion. J.Reprod.Fert.Supp., 19:19.
- Lofts, B. and Marshall, A.J. 1957. Cyclical changes in the distribution of the testis lipids of the teleost fish, Esox lucius. Quart. J. Microscop. Sci., 98:79.

Lofts, B. and Marshall, A.J. 1959. The post-nuptial occurrence of progestins in the seminiferous tubules of birds.

J. Endocrinol., 19:16-21.

Lofts, B. and Murton, R.K. 1973. In: "Avian Biology" Ch. 1 - Reproduction in Birds. pp 1-107. L. C. Jr. and R.K. Murphy (Eds.). Donald S. Farner and James R. King. pp, 1-535 . Academic Press.

Lofts, B., Phillips, J.G., and Tam, W.H. 1966. Seasonal changes in the testis of the cobra, Naja naja (linn). Gen. Comp. Endocrinol. 6:466.

Loisel, G. 1903. Les graisses du testicule chez quelques mammifères. Compt. Rend. Soc. Biol., 55:1009.

Lorenzen, L. and Farner, D.S. 1964. An annual cycle in the interrenal tissue of the white-crowned sparrow, Zonotrichia leucophrys gambelii. Gen. Comp. Endocrinol., 4:253-263.

Lowry, O.H., Rosenbrough, N.J., Farr, A. and Randall, J. 1951. Protein measurement with the Folin phenol reagent, J. Biol. Chem., 193:265-275.

Luthy, E. and Verzar, F. 1954. The actions of steroid hormones. Biochem. J., 57:316-320

- MacManus, J.P., Franks, D.J., Youdale, T. and Braceland, B.M. 1972. Increases of rat liver cyclic AMP concentrations prior to the initiation of DNA synthesis following partial hepatectomy or hormone infusion. Biochem. Biophys. Res. Commun., 49:1201-1207.
- MacManus, J.P., Braceland, B.M., Youdale, T. and Whitfield, J.F. 1973. Adrenergic antagonists and a possible link between the increase in cyclic adenosine 3',5'-monophosphate and DNA synthesis during liver regeneration. J. Cellu. Physiol., 82:157-164.
- Malendowicz, Ljawi ; K. 1979. Sex differences in adrenocortical structure and function.V. The effects of post-pubertal gonadectomy and gonadal hormone replacement on nuclear - cytoplasmic ratio, morphology and histochemistry of rat adrenal cortex. Folia Histochem Cytochem., 17(3):195-214.
- Mancine, R.E., Penhos, J.C., Izquierdo, I.A. and Heinrich, J.J. 1960. Effects of acute hypoglycemia on rat testis. Proc. Soc. Exptl. Biol. Med., 104:699.
- Manimekala, S.E.U. and Govindarajulu, P. 1980. Lipid pattern in female reproductive tissues during different phases of estrous cycle. Ind. J. Physiol. Pharmacol., 23:333-341.
- Mann, D.R. and Barraclough, C.A. 1973. Role of oestrogen and progesterone in facilitating LH release in 4 day

- cyclic rats. Endocrinology, 93:694-699.
- Manwell, C. and Betz, T.W. 1966. The effect of embryonic partial decapitation on the developmental sequence of some proteins in the chicken. J. Embryol. Exp. Morph., 16: 83-89.
- Mapson, L.W. 1953. Function of ascorbic acid in plants; Harris and Marrian (eds.). "Vitamins and Hormones". Vol.II, pp. 1-25. Academic Press, New York.
- Marisa S. Bartilomei., Laura E. Klein, Paul Hsiao. and Chu S.L.O. 1983. Effect of corticosterone and tri*jodo*-thyronine on (Na^+ and K^+). Adenosine tri*phosphatase* activity in rat submandibular gland. Pfliigers Arch., 399:255-258.
- Marzo, A., Chirdi, P., Sardini, D. and Neroni, G. 1971. Simplified measurement of monoglycerides, diglycerides and free fatty acids in biological samples. Clin. Chem., 17:145-147.
- Mazur, A., Carleton, A. and Carlsen, A. 1961. Relation of oxidative metabolism to the incorporation of plasma iron ferritin in vitro. J. Biol. Chem., 236:1109-1116.
- Mcpherson, R.J. and Marion, K.R. 1982. Seasonal changes of total lipid in the turtle, (Sternotherus odoratus). Comp. Biochem. Physiol., 71A:93-98.

McWhinnie, D.J. and Thommas, R.C. 1973. The influence of hypophysectomy on bone growth and alkaline phosphatase activity in the chick embryo. J. Embryol. Exp. Morph., 29:515-527.

Means, A.R. 1975. Biochemical effects of FSH on the testis. In: Hand book of physiology. Sect. 7, Vol.5, R.O. Greep and D.W. Hamilton, (eds.), pp.203-218. Williams and Wilkins, Baltimore.

Means, A.R., Fakunding, J.L., Huckins, C., Tindall, D.J. and Vitale, R. 1976. Follicle stimulating hormone, the sertoli cell and spermatogenesis. Rec. Prog. Horm. Reg., 32:477-525.

Menon, K.M.J. and K.P. Gunaga, 1974. Role of cAMP in reproductive processes. Fertil. Steril., 25(8):732-750.

Miahle-Voloss, C., Koch, B. and Kamoun, A. 1965. Effect de la greffe surrénalienne, de la surre'nalectomie et de l'hypophysectomie sur la demi-vie de la corticostérone chez le rat femelle. J. Phisiol., (Paris). 57:661.

Mieiklejohn, A.P. 1953. The physiology and biochemistry of ascorbic acid. In: "Vitamins and Hormones". Vol.XI. pp. 61-96. Harris, R.S. and Marrian, G.E. (eds.), Academic Press, New York.

- Miller, R.A. and Riddle, O. 1942. Rest activity and repair in cortical cells of the pigeon adrenal. Anat. Rec., 75:103.
- Miller, R.A. 1961. HyperCtrophic adrenals and their response to stress after lesions in the median eminence of totally hypophysectomized pigeons. Acta. Endocrinol., (Copenhagen). 37:565-576.
- Miner, Philip, B.Jr., Sutherland, E. and Francis, R.S. 1980. Regulation of hepatic (Na^+ K^+) activated adenosine triphosphatase activity by glucocorticoids in the rat. Gastroenterology, 79(2):221-227.
- Mishunina, T.M. 1979. The effect of multiple hydrocortisone administration on tyrosine aminotransferase activity in sub-cellular fractions of rat brain, liver and kidneys. Dokl Akad Nauk Ukr Ssr Ser B Geol Khim Biol Nauki., 0(7):568-571.
- Moens, L., and Coessens, R. 1970. Seasonal variations in the adrenal cortex cells of the house sparrow, Passer domesticus (L), with special reference to a possible zonation. Gen. Comp. Endocrinol., 15:95-100
- Moog, F. 1946. The physiological significance of the phospho-monoesterases. Biol. Rev., 21:41-59.
- Mori, J.G. and George, J.C. 1978. Seasonal histological changes in the gonads, thyroids and adrenals of the Canada

- goose, Branta Canadensis. Acta. Anat., 101:304-324.
- Moses, H.L., Davis. W.W., Resenthal, A.S. and Garren, L.D. 1969. Adrenal cholesterol : Localization by Electron-Microscope Autoradiography. Science, 163:1203-1205.
- Mounib, M.S. 1967. Metabolism of pyruvate in testis of fish and rabbit with particular reference to p-nitrophenol and 2,4-dinitrophenol. Comp.Biochem.Physiol., 22: 539-542.
- Muddeshwar, M.G., N. Nath, and S.N. Chari. 1984. Role of testosterone and its analogs in ascorbic acid metabolism in castrated rats. Indian J.Exp.Biol., 22:397-400.
- Mukherjee, D. and Bhattacharyya, S. 1982. Ovarian Cholesterol dynamics in teleost, Channa punctatus (Bloch); Relationship with reproductive cycle and response to gonadotropins. Gen.Comp.Endocrinol., 46(2):141-149.
- Muller, J. 1929. as cited by Holmes, W.N. and Phillips, J.G. In "Adrenal cortex of birds". pp 291-420. In: General, Comparative and Clinical Endocrinology of adrenal cortex. pp. 1-461. Chester Jones, I. and Holmes, W.N. (eds.) 1976. Academic Press, London New York, San Francisco.
- Munshi, J.S., B.N. Pandey, B.J. Choubey. and P.K. Pandey. 1978. Studies on cyclic activities of adrenocortical tissue

and its relation with gonadal cycle in air breathing fish, Heteropneustes fossilis. Zool. Beitr., 24(3): 437-446.

1976.

Muralimohan, P. and Sasirababu, K. Free amino acids and amino transferases in the nervous system of aestivating Snail, Pila globosa (Swanson). Indian J. Exp. Biol., 14:6-9.

Murton, R.K., Loft, B. and Westwood, N.J. 1970. Manipulation of photo-refractoriness in the house sparrow, Passer domesticus by circadian light regimes. Gen. Comp. Endocrinol., 14:107-113.

Myshunina, T.M. 1978. Hydrocortisone and corticotropin effects on tyrosine aminotransferase activity in certain rabbit tissues. DOPOV Akad Nauk Ukr Rsr Ser. B. Heol Khim Biol. Nauky, (2) : 163-165.

Myshunina, T.M., Myestyechkina, A.Ya. and Lysak, V.F. 1977. Level of free amino acids in rabbit tissues after adrenalectomy and administration of hydrocortisone and ACTH. Ukr. Biokhim. Zh., 49(6):12-18.

Nagra, C.C. and Meyer, R.K. 1969. Influence of corticosterone on the metabolism of palmitate and glucose in cockerels. Gen. Comp. Endocrinol., 3:131-138.

Nagra, C.L., Sauers, A.K., and Wittmaier, H.W. 1965. Effect of testosterone progestagens and metaprirome on adrenal

- activity in cockerels. Gen. Comp. Endocrinol., 5: 69-73.
- Nakamura, M., Jensen, B. and Privett, O.S. 1968. Effect of hypophysectomy on the fatty acids and lipid classes of rat testes. Endocrinology, 82:137-142.
- Nalini, A. and Dixit, R.K. 1976. Studies on the seasonal histological changes in the interrenal and chromaffin cells of male Puntius sophore (Ham) in relation to its reproductive cycle. Z. Mikrosk. Anat. Forsch.(Leipz), 90(5): 925-932.
- Nathani, M.G., Idrees, B., Nath, N., Darginawala, H.F. and Nath N.C. 1971. Ascorbic acid metabolism in adrenalectomized rats. Metabolism, 20:1036-1043.
- Nazian, S.J. 1982. Role of the adrenal in control of gonadotrophin in the immature male rat. Arch Androl., 88(1): 37-42.
- Neauport, C. and Emmerich, E. 1979. Increased potassium level in the ovary of rat treated with gonadotrophin. Ann. Endocrinol., 40(1):15-24.
- Newsakaya, T.L. ^{and} Sheherbinina, A.V. 1977. The effect of glucocorticoids on electrolyte excretion following widening of extracellular space. Probl. Endocrinol., 23(6):48-51.

- Nequin, L.G. and Schwartz, N.B. 1971. Adrenal participation in the timing of mating and LH release in the cycle rat. Endocrinology, 88:325-331.
- Newcomer, W.S. 1959. Effect of hypophysectomy on some functional aspects of the adrenal gland of the chicken. Endocrinology, 65: 133-135.
- Nicander, L. 1957. A histochemical study on glycogen in the testes of domestic and laboratory animals, with special reference to variations during the spermatogenic cycle. Acta.Neerl.Morphol., 1:233-237.
- Oishi, T. and Konishi, T. 1978. Effects of photoperiod and temprature on testicular and thyroid activity of Japanese quail, Gen.Comp.Endocrinol., 36:250-254.
- Ostadalova, I., Lojda, Z. and Parizek, J. 1967. The effect of gonadotropins on the metabolic activity of the testicular leydig cells in normal infantile rats and in rats pretreated postnatally by ~~gestogens~~. Physiol. Bohemoslov., 16:477.
- Pandey, S., Lam, T.J., Nagahama, Y. and Hoar, W.S. 1977. Effects of dexamethasone and metapirone on ovulation in the goldfish, Carrassius auratus. Can. J. Zool., 55(8):1342-1350.
- Pandha, S.K. and Thapliyal, J.P. 1964. Effect of thyroidectomy on the testis of spotted munia, Uroloncha punctulata.

Naturewissen, 51:202-205.

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.

Parlow, A.F. 1958. as cited by Chinoy, N.J. In: "Ascorbic acid turnover in animal and human tissues". In: J.Anim.Morphol.Physiol., Silver Jubilee volume. ^{1978.} pp. 68-85.

Parlow, A.F. 1961. as cited by Chinoy, N.J. 1978. "Ascorbic acid turnover in animal and human tissues". In: J.Anim.Morphol.Physiol. Silver Jubilee volume. ^{1978.} pp. 68-85.

Patel, C.D. 1982. Certain investigations on the involvement of pineal in general metabolism and seasonal physiology of the feral blue rockpigeons, Columba livia. A Ph.D. thesis submitted to M.S. University of Baroda, Baroda, India.

Patel, C.D., Asnani, M.V., Ramachandran, A.V. and Shah, R.V. 1983. Seasonal variations in certain blood parameters in normal and pinealecтомised feral blue rock pigeons, Columba livia. J. Anim. Morphol.Physiol., 30:208-216.

Patel, C.D., Ramachandran, A.V., Asnani, M.V. and Shah, R.V. 1985. Seasonal histological alterations in thyroid and adrenal glands of normal and pinealecтомised wild pigeons, Columba livia. J. Anim. Morphol.Physiol. 32:153-160.

- Patel, M.M. 1984. Pineal in relation to breeding and carbohydrate metabolism: Histophysiological studies in domestic and wild pigeons, Columba livia. A Ph.D. Thesis submitted to M.S. University of Baroda, Baroda, India.
- Patel, M.M. and Ramachandran, A.V. 1983. Seasonal alterations in the weight of pancreas, spleen and uropygium in normal and pinealectomised domestic pigeons, Columba Livia. Pavo, 29:87-92.
- Patel, M.M. and Ramachandran, A.V. 1985. Seasonal alterations in the activity of phosphomonoesterases and protein in the testis of normal and pinealectomised domestic pigeons, Columba livia. J. Reprod. Biol. Comp. Endocrinol., 4(2):73-79.
- Patel, M.M. and Ramachandran, A.V. 1986. Seasonal alterations in sodium and potassium ions and water content in the gonads of normal and pineactomised domestic pigeons, Columba livia. J. Anim. Morphol. Physiol., 32:51-58.
- Pearse, A.G.E. 1968. Histochemistry Theoretical and Applied. pp. 1-759. J. and A. Churchill Ltd., London.
- Pe'czely, P. 1969. Effect of median eminence of the pigeons, Columba livia domestica, on the regulation of adeno-hypophyseal corticotropin section. Acta Physiol. Ac. Sci. Hungar., 32:47-57.

Peczely, P. and Daniel, J.Y. 1979. Testicular - thyroid-adrenal reciprocal interactions in the male quail. Gen. Comp. Endocrinol., 39(2):164-173.

Pe'czely, P., Bayle, J.D., Boissin, J. and Assenmacher, I. 1970. Activite corticotrope et "CRF" dans l'e'minence mediane, et activite' corticotrope de greffes hypophysaires chez le pigeon. C.R. Acad. Sci., 270:3264-3267.

Pennington, R.J. 1961. Biochemistry of dystrophic muscle: Mitochondrial succinate tetrazolium reductase and adenosine triphosphatase. Biochem. J., 80:649-654.

Perlman, P.L. 1950. The functional significance of testis cholesterol in the rat. Effects of hypophysectomy and cryptorchidism. Endocrinology, 46:341-346.

Petroiu, A., Schneider, F. and Elena, T. 1977. Investigations on certain blood parameters in adrenalectomised rats. Rev. Roum. Morphol. Embryol. Physiol. i Physiol., 14(2): 1115-1118.

Pfeiffer, C.J. and Debro, J.R. 1966. as cited by Levin, R.J.
In: "Adrenal cortex and alimentary tract" pp. 207-291.
In: General, Clinical and Comparative Endocrinology of Adrenal Cortex. Vol.I. pp 1-461. Chester Jones, I and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.

- Phillips, J.G., and Chester-Jones, I. 1957. The identity of adrenocortical secretion in lower vertebrates. J. Endocrinol., 16: 111-114.
- Phillips, J.G., Holmes, W.N. and Butler, D.G. 1961. The effect of total and sub-total adrenalectomy on the renal and extrarenal response of the domestic duck, Anas platyrhynchos in saline loading. Endocrinology, 69: 958-959.
- Pilo, B. and Patel, P.V. 1978. Neuroendocrine control of uptake and metabolism of glucose in avian liver. Pavo, 16: 162-178.
- Poll, H. 1925. as cited by Holmes, W.N. and Phillips, J.G. In "Adrenal cortex of birds". pp. 293-420. In: General, Comparative and Clinical Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press. London, New York, San Francisco.
- Prabhakar, M.R., Chatterjee, A.K. and Datta, I.C. 1975. Influence of puberty and egg formation upon cholesterol and ascorbic acid content of ovary and fallopian tube in white leghorn birds. Ind. J. Anim. Sci., 45(5):284-286.
- Purvis, K., Olsen, A., Barry, M. and V. Hansson. 1981. Testicular cyclic nucleotide phosphodiesterase in rat : Kinetic properties and changes with age. Arch. Androl., 6(4). 327-336.

- Rackallio, J. 1970. Enzyme histochemistry of wound healing.
Prog. Histochem. Cytochem., 1:1-101.
- Rale, J.E., Robbins, J. and Lawallen, C.G. 1964. In: "The Thyroid" In: The Hormones Vol. V, pp. 159-439. P. Pincus, T.V. Thimann and E.B. Astwood (eds.). Academic Press. New York.
- Resko, J.A., Norton, H.W., and Nalbandov, A.V. 1964. Endocrine Control of the adrenal in chickens. Endocrinology, 75:192-200.
- Ramachandran, A.V. and Chacko, S.M. 1987. Carbohydrate metabolism in relation to tail regeneration in the Gekkonid lizard, Hemidactylus flaviviridis : A seasonal evaluation, communicated for publication in Ind. J. Exp. Biol., ian, 1987.
- Ramachandran, A.V. and Patel, M.M. 1986. Seasonal alterations of adrenals and thyroid in normal and pinealectomised domestic pigeons, Columba livia. Indian J. Exp. Biol., 24:755-769.
- Ramachandran, A.V. and Patel, M.M. 1987. Seasonal alterations in carbohydrate metabolism as revealed by tissue glycogen contents and blood glucose levels of normal and pinealectomised domestic pigeons, Columba livia. Monitore Zool. Ital., 21:11-19.

Ramachandran, A.V. and Patel, M.M. 1987. Seasonal histomorphological alterations in the gonads of intact and pinealectomised domestic pigeons, *Columba livia*. Communicated in Indian J. Exp. Biol.

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

Ramachandran, A.V., Patel, C.D., Mehan, S.P. and Shah, R.V. 1987. Seasonal alterations in glycogen content of liver muscle and gonads, and blood glucose level in intact and pinealectomised pigeons, *Columba livia*. Communicated for publication in Indian J. Exp. Biol.

Ramachandran, A.V., Radhakrishnan, N. and Shah, R.V. 1975. Cytochrome oxidase and ascorbic acid in the normal and regenerating tail of the scincid lizard, Mabuya Carinata. Acta Anat., 93: 411-420.

Rana, B.D. 1982. The functional demography of adrenal glands in Rattus meltada(palladiov) in Indian desert. Proc. Indian Acad. Sci. Anim. Sci., 91(6):623-630.

Riddle, O. 1923. Studies on the physiology of reproduction in birds. XIV. Suprarenal hypertrophy coincident with ovulation. Amer. J. Physiol., 66:332-339.

Riddle, O. 1925. Studies on thyroid XX. Reciprocal size changes of gonads and thyroid in relation to season and ovulation rate in pigeon. Amer. J. Physiol., 73:5-16.

Riddle, O. 1937. On carbohydrate metabolism in pigeons. Cold Spring Harbor Symp. Quant. Biol., 5:362-374.

Riddle, O., Honeywell, H.E. and Fisher, W.S. 1924 as cited by Holmes, W.N. and Phillips, J.G. In "Adrenal cortex of birds". pp. 291-420. In: General, Clinical and Comparative Endocrinology of Adrenal Cortex. pp 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.

Rodgers, J.B., Riley, E.M., Drummond, G.D. and Isselbacher, K.J. 1967 as cited by Levin, R.J. In "The adrenal cortex and alimentary tract". pp 207-291. In: General, Clinical and Comparative Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.

Roe, J.H. 1954. Chemical determination of ascorbic acid. In: Methods of Biochemical Analysis. Vol. I, Glick, D. (ed.). New York. Interscience Publishers.

Rogers, K.T. 1960. Studies on chick brain of biochemical differentiation related to morphological differentiation and onset of function III. Histochemical localization of alkaline phosphatase. J. Exp. Zool., 145:49-55.

- Romanoff, A.L. 1960. The avian Embryo: Structural and Functional Development. pp. 1-219. Macmillan, New York.
- Rosenthal, I.M., Bonting, S.L., Hogan, W. and Pirani, C.L. 1960. A.M.A.J. Disease Children. 99:185-192. Cited by Burstone, M.S. 1962.
- Rousseau, Guy, G., Alain Amarcostesec., Martine Verhaegen and Daryl K. Granner. 1980. Glucocorticoid hormone increases the activity of plasma membrane alkaline phosphodiesterase. I. in rat hepatoma cells. Proc. Natl. Acad. Sci. U.S.A., 77(2):1005-1009.
- Roussel, J.D. and Stallcup, O.T. 1967. Distribution of lactic dehydrogenase and transaminase in genital tissues of Holstein - Friesian bulls J. Dairy Sci., 50:1306.
- Rudneva, L.M., Novikov, B.G. and A.G. Nikonenko. 1980. The role of adrenoreactive structures in the regulation of hypothalamo-thyroid function in birds. Dokl Akad Nauk Ukr SSR Ser. B. Biol Nauk, 9(2):82-84.
- Rusch, H.P. and Kline, B.E. 1941. The inhibition of phospholipid oxidation by carcinogenic and related compounds. Cancer. Res., 1:465-472.
- Rzasa, Janusz., Barbara Witkouska and Jozef Niczgoda. 1982. Changes in plasma sodium, potassium and protein levels during oviposition in domestic hens. Acta Agar. Silvestria Ser Zootech., 21(0): 91-98.

- Rzasa, J., Williams J. and Etches, R.J. 1983. A study of ovulation - inhibiting effects of dexamethasone in domestic hen. Gen. Comp. Endocrinol., 52(2):311-314.
- Sacks, H.F. and Lanchantin, G.F. 1960. An evaluation of Serum transaminase in jaundice states. Am.J.Clin. Pathol., 33: 97-101.
- Sadasivudu, B., Indira, Rao, T, Radha, C and Krishnamurthy. Metabolic effects of hydrocortisone in mouse brain. Neurochem. Res., 2(5): 521-532
- Sandor, T. 1969. A detailed study of the biogenesis of corticosteroids in the avian adrenal by in vitro techniques. Gen. Comp. Endocrinol., Suppl. 2: 284
- Sandor, T. 1972, In "Steroids in Nonmammalian Vertebrates" Idler, D.R.(ed.) PP. 253-389. Academic Press, New York and London.
- Sandor, T., Lamoureux, J. and Lanthier, A. 1965 as cited by Sandor, T., Fazekas, A.G. and Robinson, B.H. In "The Biosynthesis of corticosteroids throughout vertebrates". pp. 1-142. In: General, Clinical Comparative Endocrinology of Adrenal Cortex. Chester Jones, I. and Henderson, I. W.(eds.). Academic Press, London, New York San Francisco.
- Salmon, L.T. and Stubbs, D.W. 1961. The defect in ascorbic acid synthesis by hypophysectomized rats. Biochem. Biophys. Res. Commun., 4:239.

- Sato, T. and George, J.C. 1973. Diurnal rhythm of corticotrophin releasing factor activity in the pigeon hypothalamus. Can. J. Physiol. Pharmacol., 51:743-747.
- Sato, K. and Glick, B. 1964. Bursal histology and antibody response. J. Miss. Acad. Sci., 10:213-218.
- Sato, K. and Glick, B. 1970. Antibody and cell mediated immunity in corticosteroid treated chicks. Poult. Sci., 49:982-986.
- Seifter, S., Dayton, S., Novic, B. and Muntwyler, E. 1950. The estimation of glycogen with anthrone reagent. Arch. Biochem., 25:191-200.
- Semenkov, V.F. and S.A. Afinogenova. 1982. Effect of endogenous glucocorticoids on the morphology of mouse thymus and spleen. Byull. Eksp. Biol. Med., 94(9):107-109.
- Serrano, J.A., Shannon, W.A., Stemberger, W.J., Wasserburg, H.J., Serrano, A.A. and Seligman, A.M. 1976. *The cytochemical demonstration of prostatic acid phosphatase using a new substrate, phosphoryl choline.* J. Histochem. Cytochem., 24:1046-1056.
- Setchell, B.P., Hinks, N.T., Voglmayr, J.K. and Scott, T.W. 1967. Amino acids in ram testicular fluid and semen and their metabolism by spermatozoa. Biochem. J., 105:1061.
- Setchell, B.P., Wailes, G.M.H. and Lindner, H.R. 1965. Effect of undernutrition in testicular blood flow and

metabolism and output of testes in the ram. J. Reprod. Fertility., 9:149.

Sayers, G. and Sayers, M.A. 1948. as cited by Holmes, W.N. and Phillips, J.G. In "Adrenal Cortex of birds". pp. 292-420. In: General, Comparative and Clinical Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. 1976 (eds.). Academic Press, London New York, San Francisco.

Schor, N., Cara, J. and Perez, A. 1963. Hormonal dependence of oxidative enzymes in the testis of the rat. Nature, 198:1310.

Schraier, M., Mazure, P.A., Lozzio, B. and Royer, M. 1963. as cited by Levin, R.J. In "The adrenal cortex and the alimentary tract". pp. 207-291. In: General, Clinical and Comparative Endocrinology of Adrenal Cortex. pp. 1-461. Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press, London, New York, San Francisco.

Schluster, D., Burstein, S. and Cooke, B.A. 1976. In: Molecular Endocrinology of the Steroid Hormones. pp. 273-290. Wiley and Sons, London.

Selye, H. and Friedman, S. 1941. The action of various steroid hormones on the testis. Endocrinology, 28:229.

Shaffner, C.S. and Andrews, F.N. 1948. The influence of thiouracil on semen quality in the fowl. Poultry Sci., 27:91.

- Short, J., Tsukado, K., Rudert, W.A. and Lieberman, I. 1975.
Cyclic adenosine 3',5'-monophosphate and the induction
of deoxyribonucleic acid synthesis in liver. J. Biol.
Chem., 250:3602-3606.
- Sharma, R. and Swaraj, K.P. 1982. Differential regulation of
malate dehydrogenase isozymes by aging rats. Growth
Differ., 24(5):501-506.
- Sharma, S.K. and Talwar, G.P. 1970. Action of cyclic adenosine
3',5'-monophosphate in vitro on the uptake and incorpo-
ration of uridine into ribonucleic acid in ovariecto-
mized rat uterus. J. Biol. Chem., 245:1513-1519.
- Shettan, M.R. 1964. Metabolism of inorganic phosphate 1
Microsomal inorganic pyrophosphate phosphotransferase
of rat liver. J. Biol. Chem., 239:3576-3583.
- Shivandandappa, T. and Devraj, Sarkar, H.B. 1979. Seasonal
lipid cycle and steroidogenic activity in the testis
of tropical skink, Mabuya Carinata (Schneider). A
histochemical study. Gen. Comp. Endocrinol., 38(4):
491-495.
- Sigma Technical Bulletin, No.104, Sigma Chem. Co., 3500.
Dekalb. St., St. Louis 18, Mo. U.S.A.
- Simkiss, K. 1969. Phosphatase as crystal poisons of calcifica-
tion. Biol. Rev., 39:487-503.

- Sinha, R.C. 1982. Effects of gonadal hormones on the lipid metabolism of the frog, Rana esculenta. Experientia, (Basal)., 39:1066-1067.
- Skinner, J.P., Vanzyl, J.H.M. and Van Heerden, J.A.H. 1973. The effect of season on reproduction in black wildebeest and red Lartebeest in South Africa. J. Reprod. Fert. Suppl., 19:101-110.
- Sols, A. 1949. Fosfatases: Revision de la litterature de 1947-1948. R. esp. Fisiol., 5:57-129.
- Soule, J. and Assenmacher, I. 1966. Mise en évidence d'un cycle annuel de la fonction corticosurrénaliennne chez le canard male. C.R. Acad. Sci., 263, 983-985.
- Silva, Ana, M.R. and Guillermo, F. Wassermann. 1982. Seasonal variation of amino acid uptake by testes of the turtle, Chrysemys dorsignyi : Effects of temperature and hypophysectomy. Comp. Biochem. Physiol. A Comp. Physiol., 72(3):607-610.
- Singh, A.K. and Singh, T.P. 1979. Seasonal fluctuation in lipid and cholesterol content of ovary, liver and blood serum in relation to annual sexual cycle in Heteropneustes fossilis (Bloch). Endokrinologie, 73(1):47-54.
- Singh, I.J. and Singh T.P. 1983. Circannual changes in total gonadotrophic potency and, levels of lipid cholesterol

and ^{32}P uptake in gonads of fresh water cat fish,
Clarias Batrachus in relation to changes in certain
environmental factors. J. Inter dis. cycle Res., 14:
227-239.

Snedecor, J.G., King, D.B., and Hendrikson, R.C. 1963. Studies
on the chick glycogen body : Effects of hormones and
normal glycogen turnover. Gen. Comp. Endocrinol., 3:
176-183.

Srere, P.A., Chai Koff, I.L., Trietman, S.S. and Burstein, L.S.
1950. The extrahepatic synthesis of cholesterol. J.
Biol. Chem., 182:629.

Srivatsava, R.K., Gupta, I.M. and Gupta, S. 1984. In abstracts
of : Proceedings of the fourth annual symposium on
reproductive biology and comparative Endocrinology,
7-8 June 1984; held at Madras.

Stahl, E. 1965. "Thin layer chromatography, A laboratory hand
book". Stahl, E. (ed.) Academic Press, New York.

Stamler, J., Pick, R. and Katz, L.N. 1954. Effects of cortisone,
hydrocortisone and corticosterone on lipemia, glycemia,
and atherogenesis in cholesterol fed chicks. Circulation,
10:237-246.

Stastny, F. 1971. Hydrocortisone as a possible inducer of
 $Na^+ - K^+$ - ATPase in the embryo cerebral hemisphere.
Brain Res., 25:397-410.

Sundararaj, B.I. and Goswami, V.S. 1969. Role of interrenal in Lutenizing hormone induced ovulation and spawning in the cat fish, Heteropneustes fossilis (Bloch). Gen. Comp. Endocrinol. Suppl., 2:374-384.

Suresh, P.K. and Chaturvedi, C.M. 1984. In: Abstracts of symposium on comparative endocrinology held in Dec. 1984. Department of Zoology, Banaras Hindu University, Varanasi.

Szent-Gyorgyi. 1957. Bioenergetics, Academic Press, New York.

Taban, C. and Cathieni, M. 1978. Cyclic AMP and noradrenaline sensitivity fluctuations in regenerating newt tissue. Nature, 271:470-471.

Taber, E., Salley, K.W., and Knight, J.S. 1956. The effects of hypoadrenalinism and chronic inanition on the development of the rudimentary gonad in sinistrally ovarie-ctomized fowl. Anat. Rec., 126:177.

Takaishi, M., Yasunori, O., Toeko Shimizu and Yoshimasa Shishiba. 1977. Elevated serum lactic dehydrogenase activity in patients with Cushing's syndrome. Endocrinol. Jpn., 24(4):381-384.

Tanabe, W. and Wilcox, M. 1961. Endocrine control of serum alkaline phosphatase activity in chicken. Poult. Sci., 40:411-416.

- Tanaka, S. and Yasuda, M. 1980. Histological changes in the testis of the domestic fowl after adenohypophysectomy. Poult. Sci., 59(7):1538-1545.
- Thapliyal, J.P. and Bageshwar, K. 1970. Light responses of thyroidectomised weaver birds. Condor., 72:190-195.
- Thapliyal, J.P. and Garg, R.K. 1969. Relation of thyroid to gonadal and body weight cycles in male weaver bird, Ploceus philippinus. Arch. Anat. Histol. Embryol., 516:689.
- Thapliyal, J.P. and Pandha, S.K. 1965. Thyroid-gonad relationship in spotted Munia, Uroloncha punctulata. J. Exp. Zool., 158:253-261.
- Thapliyal, J.P. and Pandha, S.K. 1967^a. The thyroid and the hypophysial gonadal axis in the female spotted Munia, Uroloncha punctulata. Gen. Comp. Endocrinol., 8:84-93.
- Thapliyal, J.P. and Pandha, S.K. 1967^b. Thyroidectomy and gonadal recrudescence in Lal Munia, Estrilda amandava. Endocrinology., 81:915-918.
- Thapliyal, J.P., Garg, R.K. and Pandha, S.K. 1968. Effect of thyroxine on the gonad and body weight of spotted Munia, Uroloncha punctulata. J. Exp. Zool., 169:279-286.
- Thapliyal, J.P., Pati, A.K., Singh, V.K. and Lal, P. 1982. Thyroid, gonad and photoperiod in the hemopoiesis of migratory red-headed bunting, Emberiza bruniceps. Gen. Comp. Endocrinol., 46:327-332.

Thomas, D.H. and Phillips, J.G. 1971. The effect of adrenalectomy
on salt and water metabolism in the duck. J. Endocrinol.,
50 : vii-viii.

Thomas, E.W., Murad, F., Looney, W.B. and Morris, H.P. 1973.
Adenosine 3',5'-monophosphate and Guanosine 3',5'-
monophosphate concentrations in Morris hepatomas of
different growth rates. Biochim. Biophys. Acta.,
297:564-567.

Thorbeck, G.J., Old, L.F., Benacerraf, B. and Clarke, D.A.
1960. RE function and phosphatase activity in mouse
liver. Fed. Proc., 19:134.

Tienhoven, Van A. 1961. In "Endocrinology of reproduction in
birds". In: "Sex and internal secretions" (W.C. Young,
(ed.) 3rd ed., Vol.2, pp.1088-1169. Williams and
Wilkins, Baltimore, Maryland.

Ulick, S. and Feinholtz, E. 1968. Metabolism and rate of
secretion of aldosterone in the bullfrog. J. Clin.
Invest., 47:2523-2529.

Umbreit, W.W., Burris, R.H. and Stauffer, J.F. 1957. In:
"Manometric techniques". Burges publishing Co.
Minneapolis. pp. 1-338.

Urist, M.R. and Deutsch, N.M. 1960. Influence of ACTH upon
avian species and osteoporosis. Proc. Soc. Exp. Biol.
Med., 104: 35-39.

- Valivullah, H., Mohammed, M., Michael Aruldas and P. Govindarajulu. 1983a. Effect of adrenalectomy and dexamethasone treatment on testicular enzymes involved in carbohydrate metabolism. Int. J. Androl. 6(1):66-72.
- Valivullah, H., Mohammed, M., Michael Aruldas and P. Govindarajulu. 1983b. Effect of dexamethasone on testicular enzyme of Embden - Meyerhof and pentose phosphate pathways. Int. J. Androl. 6(2): 201-207
- Varley, H. 1975. "Colorimetric method." In: "Practical clinical Biochemistry", Vol. I, By [Varley], P.p. 1-1277, Published by William Heinemann Publishers (India) Private Ltd., Indian Edition, 1975.
- Vaugien, L. 1954. Influence de l' obscuration temporaire, Sur la dur'ee de la Sexuel du Moineau domestique. Bull. Biol. Fr. Belg., 88: 294-309.
- Vernier, J.M. and M.F. Sire, 1978. In vivo study of the effects of adrenaline, glucocorticoids and fasting on the activity of glycogen phosphorylase, G-6-Pase and on the amount of glycogen in the liver of rainbow trout. Gen. Comp. Endocrinol., 34(3): 370-376.
- Waldman, R.K. and Borman, E.K. 1959. A note on serum transaminase activity after lead absorption. Arch. Indust. Health, 19: 431-434.

- Wambach, G., Helber, A., Allolio, B., Winkelmann and W. Kaufmann. 1980. Increased activity of $\text{Na}^+ \text{K}^+$ Adenosine triphosphatase in Red cell ghosts of patients' with Cushing's syndrome. Klin Wochenschr., 58(9): 485-487.
- Warren, S., and Lecompte, P.M. 1952. "The Pathology of Diabetes Mellitus". Lea and Febiger (eds) Philadelphia, Pennsylvania.
- Wayne, B.L., Keith, I.B. and Margery A.M. 1980. Changes in plasma Ca^{++} , Phosphorus, lipids and estrogens in turkey hens with reproductive state. Poult. Sci., 59(2): 44-452
- Weber, A. 1966. In: "Current Topics in Bioenergetics" Vol.1. L.R. Sanadi (ed.) Academic Press, New York.
- Weber, A., Herz, R. and Reiss, I. 1966. Cited by Khan, M.A. 1974.
- Wheeler, R.S., Hoffman, N.E., and Graham, C.L. 1948. The value of thyroprotein in starting, growing and laying rations. I. Growth, feathering and food consumption in Rhode Island Red broilers. Poult. Sci., 27: 103-111
- Whitting, S.J. and A.J. Wiggs. 1977. Effect of nutritional factors on Tyrosine amino transfenase activity in liver of brook trout, Salvelinus fontinalis (Mitchill). Comp. Biochem. Physiol. B. Comp. Biochem., 58(2): 189-194
- Whitting, S.T. and A.J. Wiggs. 1978. Effects of sexual maturation and estadiol - 17 β on liver glycogen and tyrosine amino

transferase activity of brook trout, Salvelinus^a
fontinalis. (Mitchill). Comp. Biochem. Physiol. B. Comp.
Biochem., 60(4): 463-466.

Wicks, W.D. 1974 in "The Mode of Action of Glucocorticoids"
 pp. 211-241. In: Biochemistry of Hormones. Rickenberg,
 H.V. (ed.) Butterworth, London. pp. 1-405.

Wilfred, G. and Rao, J.P. 1977. Effect of in Vivo administration
 of insulin on hepatic alkaline phosphatase activity.
Indian J. Exp. Biol., 15: 627-630.

Wilson, Susan, C. and Louis, L. 1978. The effect of dexamethasone
 on plasma LH and Oviposition in the hen, (Gallus domesticus).
Gen. Comp. Endocrinol., 35(1): 16-26.

Wislocki, G.B. 1949^a. Seasonal changes in the testis, epididymides
 and seminal vesicles of deer investigated by histochemical
 methods. Endocrinology, 44; 167-171

Wislocki, G.B. 1949b, Seasonal changes in the testis, epididymis
 and seminal vesicles of deer investigated by bio-chemical
 methods. Endocrinology, 57: 286-291.

Woitkewitsch, A.A. 1940. Dependence of seasonal periodicity in
 gonadal changes on the thyroid gland in Sturnus vulgaris.
L. Dokl. Akad. Nauk SSSR., 27; 741-745.

Wolf, R.C and Leathem, J.H. 1955. as cited by Chowdhary and
 Chatterjee. 1978.

Wroblewski, F. and La Due, J.S. 1955. Serum glutamate pyruvate transaminase in cardiac and hepatic diseases. Proc. Soc. exp. Biol. Med., 91: 569-573.

Yeh, K.Y. and Moog, F. 1977. Influence of the thyroid and adrenal glands on the growth of the intestine of the suckling rat, and on the development of intestine alkaline phosphatase and disaccharidase activities. J. Exp. Zool., 200: 337-348

Zaleska- Freljan, ^{and} Krystyna, I. 1979. Diurnal changes in the level of blood plasma corticosteroids in laboratory mice, (Mus musculus) in relation to sex and season. Bull. Acad. Pol. Ser. Sci. Biol., 27(7): 571-574

Zarrow, M.X. and Baldini, J.T. 1952. Failure of adrenocorticotrophin and various stimuli to deplete ascorbic acid content of adrenal gland of the quail. Endocrinology, 50: 555-561

Zarrow, M.X., Greenman, D.L. and Peters, L.E. 1961. Inhibition of the bursa of Fabricius and Stilbestrol Stimulated oviduct of the domestic Chick. Poult. Sci., 40: 87-94.

Zarrow, M.X., Greenman. D.L., Kollias, J. and Dalrymple, D. 1962, as cited by Holmes, W.N. and Phillips, J.G. in: " Adrenal Cortex of birds ". PP. 292-420. In: General, Clinical and Comparative Endocrinology of Adrenal Cortex. PP.1-461.

Chester Jones, I. and Henderson, I.W. (eds.) 1976. Academic Press. London, New York, San Francisco.

L., S.
Zbigniew, Stanislaw, and Irena, Urban, 1977. Changes in blood glucose and Free fatty acids levels evoked by ACTH in rats. Ann. Uni. Mariae Curie-Sklodowska. Sect. D. Med., 32: 179-184.

ERRATA

Gasparska et al. (1982) should be read as Jolanta et al. (1982)
Chan et al. (1972) should be deleted
Freeman and Manning. (1979) should be deleted.
Marisa et al. (1983) should be read as Bartilomei et al. (1983).