

BIBLIOGRAPHY

- Adachi, K. and Uno, H. 1968. Glucose metabolism of growing and resting human hair follicles. Am. J. Physiol., 215, 1234-1239.
- Adams, E. and Finnegan, C.V. 1965. An investigation of lactate dehydrogenases activity in early amphibian development. J. Exp. Zool., 158 : 241-252.
- Adelmann, B. 1966. Marcello Malpighi and the Evolution of Embryology 5 v Cornell Univ. Press, N.Y.
- Ali, S. and Ripley, D.S. 1968. Handbook of the birds of India and Pakistan, Vol. I. Oxford University Press. Bombay, London, New York.
- Allen, A.C. 1954. The skin, a clinicopathologic treatise. St. Louis. The C.V. Mosby Company.
- Amenta, F. and Cavallotti, C. 1977. Relation between thyroid hormones and the activity (enzymes) of Sciatic nerve (Abstract) Act. Anat., 99(3) : 244.
- Anagnostopoulos, C. and Matsudaira, H. 1958. In "Proceedings of the International Symposium on Enzyme Chemistry, Tokyo-Kyoto". Ed. K. Ichihara, p.166. Academic Press, New York.
- Anstall, H.B. and Trujillo, J.M. 1967. Glucose-6-phosphate dehydrogenase. Its purification and properties. Am. J. Clin. Path., 47 : 296-302.

- Argyris, T.S. 1956. Succinic dehydrogenase and esterase activities of mouse skin during regeneration and foetal development. Anat.Rec., 126 : 1-13.
- Asnani, M.V. 1971. Ph.D. thesis entitled "Certain histological and histophysiological studies on the avian liver", submitted to the M.S. University of Baroda, Baroda-390002. India.
- Assenmacher, I., 1958. La mue des oiseaux et son determinisme endocrinien. Aloude, 26 : 251-289.
- Bailey, R.E., 1952. The incubation patch of passerine birds. Condor., 5 : 121-136.
- Baden, H.P. and Maderson, P.F.A., 1970. Morphological and biophysical identification of fibrous proteins in the amniotic epidermis. J.Exp.Zool., 174 : 225-232.
- Baldwin, J. and Aleksiuk, M. 1973. Adaptation of enzymes to temperature: Lactate and malate dehydrogenases from Platypus and echidna. Comp.Biochem.Physiol., 44B : 363-370.
- Bard, D.R. and Lasnitzki, I. 1977. The influence of estradiol on the metabolism of androgens by human prostate tissue. J.Endocr., 74 : 1-9.
- Barka, T. 1963. Fat absorption and acid phosphatase activity in the intestinal epithelium of mice. J.Am.Med.Ass., 183 : 761.

- Beard, M.E. and Allen, J.M. 1966. Association of lactate dehydrogenase with renal mitochondria, J. Histochem. Cytochem., 14 : 810.
- Bell, E. and Thathachari, Y.T. 1963. Development of Feather keratin during embryogenesis of the chick. J. Cell. Biol., 16 : 215-223.
- Bentley, J.P. 1970. The biological role of ground substance mucopolysaccherides. In "Advances in Biology of Skin". Vol.X. The Dermis. Eds. W. Montagna, J.P. Bentley, K.L. Dodson Appleton-Century-Crofts, Educational division, Meridith Corporation, New York.
- Bernfield, M.R. and Wessells, N.K. 1970. Intra-and extra-cellular control of epithelial morphogenesis. Develop. Biol., Suppl. 4 : 195-249.
- Bhattacharya, S.P. and Ghosh, A. 1958. Alkaline phosphatases in uropygial gland. Curr. Sci., 27 : 401-402.
- Billiar, R.B. Zelawski, L. and Villee, C.A. 1966. L-Malate dehydrogenase activity and protein synthesis in sea urchin embryos. Develop. Biol., 13 : 282-295.
- Blivaiss, B.B. 1947. Interrelations of thyroid and gonad in the development of plumage and other sex characters in brown Leghorn rooster. Physiol. Zool., 20: 67-107.
- Bommer, J. Krempian, B., Huberti, H., Jedanzik, S. and Gengenbach, E. 1977. Influence of thyroid hormone on growth processes (Abstract). Acta. Endocrinologia, Suppl. 208 : Vol.84.

- Brachet, J. 1950. Chemical embryology. Interscience publishers Inc. New York.
- Brachet, J., Decroby-Briers, M. and Hoyez, G. 1958. Contribution a l'e'tude des lysosomes su cours du de'veloppement embryonnaire. Bull.Soc.Chim.Biol. 40: 2039-2048.
- Bradfield, J.G.R. 1950. The localization of enzymes in cell. Biol. Revi., 25 : 113-157.
- Braun-Falco, O. and Rupec, M. 1967. Distribution of acid phosphatase with normal and psoriatic cornification (an electron miscroscopic cytochemical investigation). Dermatologica (BASEL), 134 : 225-242.
- Brotman, H.F. 1976. Abnormal morphogenesis of feather structure and pattern in chick embryo intagument 1 macroscopic description. J. Exp. Zool., 196: 323-340.
- Burstone, M.S. 1962. Enzyme histochemistry and its applications in the study of neoplasms. Academic Press, New York.
- Burt, A.M. 1965. G-6-PDH activity in the embryonic brachial spinal cord. Dev.Biol. 12 : 231-232.
- Burt, A.M. 1966. The relative importance of glycolytic and pentose cycle metabolism during the development of the chick spinal cord. Anat. Rec., 154 : 325.
- Burt, A.M. and Wenger, B.S. 1961. Glucose-6-Phosphate dehydrogenase activity in the brain of the developing chick. Dev. Biol., 3 : 84-95.
- Cameron, I.L. and Jetter, J.R. 1971. "Relationship between cell

- proliferation and cytodifferentiation in embryonic chick cells" In Developmental Aspects of Cell Cycles. Eds. I.L. Cameron, G.M. Padilla and A.M. Zimmerman. Academic Press, New York, London.
- Carinci, P., Simonelli, L. Bubola, G. and Pettazoni, P. 1976. An ultrastructural analysis of chick embryonic skin development in vitro. J.Exp.Zool. 197 : 384-402.
- Chakko, T.V. 1967. Ph.D. Thesis entitled "A histological and histochemical study of normal and regenerating tail of the house lizard, Hemidactylus flaviviridis", submitted to the M.S. University of Baroda, Baroda-2. India.
- Chandola, A. and Pavgi, S. 1978. Effect of prolactin on daily food consumption and feeding pattern in spotted munia in relation to body weight (Abstract No.19) Gen.Comp.Endocrinol., 34 : page 70.
- Chapman, R.E., Hopkins, P.S. and Thorburn, G.D. 1974. The effects of fetal thyroidectomy and thyroxin administration on the development of the skin and wool follicles of sheep foetuses. J.Ant., 117 : 419-432.
- Chu, J.P. 1938. Studies on the plumage in the male brown Leghorn fowl. Roy.Soc.Edinb.Trans., 59: 533-562.
- Clench, M.H., 1970. Variability in body pterylosis, with special reference to the Genus. Passer.Auk. 87: 650-691.
- Cohen, J. 1965. The dermal papilla. In Lyne A.G. and Short, B.F. ed. Biology of the Skin and Hair Growth. pp.183-199. American Ebevier Publishing Co. Inc. N.Y.

Cohen, J. 1966. Feather and patterns. In Abercrombie, M. and Brachet, J. eds. Advances in Morphogenesis, 5 : 1-38. A.P., N.Y. and London.

Cohen, J. and Espinasse, P.G. 1961. On the normal and abnormal development of the feather. Jour. Embryol. and Expt. Morph., 9 : 223-251.

Cohen, R.B. 1959. Histochemical localization and metabolic significance of glucose-6-phosphate dehydrogenase system in the adrenal cortex. Proc.Soc.Exp.Bio.Med., 101 : 403.

* Conklin, J.L. 1965. Enzyme localization in the developing liver. Anat. Rec., 151 : 447.

Cristofalo, V.J., Parris, N. and Kritchevsky, D. 1967. Enzyme activity during the growth and aging of human cells in vitro. J.Cell.Physiol., 69: 263-272.

Coulton, L.A. 1977. Temporal relationship between glucose-6-phosphate dehydrogenase activity and DNA synthesis. Histochemistry, 50 : 207-215.

Danielli, J.F. 1954. Proc. Roy. Soc., B142 : 146-154.
cited by Burstone (1962).

Dapson, R.W. 1970. Histochemistry of mucus in the skin of the frog. Rana pipiens. The Anat. Rec., 166 : 615-625.

Dapson, R.W., Feldman, A.T. and Wright, O.L. 1973. Histochemistry of the granular (poison) secretion in the skin of the frog. Rana pipiens. The Anat. Rec., 177 : 549-560.

* Coiter 1573 As quoted by Lucas A.M. and Stettenheim R in Avian Anatomy: Integument, Part II 1972 Agriculture Handbook 362, Washington DC USA.

Das, M. and Ghosh, A. 1959. Some histological and histochemical observations on the uropygial gland of the pigeon. Anat. Anz., 107 : 75-84.

Dent, J.N. 1975. Integumentary effects of prolactin in the lower vertebrates. Amer. Zool., 15 : 923.

Desai, J.H. 1975. Ph.D. Thesis entitled "Studies on the reproductive pattern, growth and certain behaviour of the Painted Stork, Ibis leucocephalus, Pennant". Submitted to M.S. University of Baroda, India

Dodd, M.H.I. and Dodd, J.M. 1976. The biology of metamorphosis," In "Physiology of the Amphibia" (B. Cofts, ed.) Vol.3, pp.407-599, A.P., N.Y.

Dubale, M.S. and Muralidharan, P. 1970. Histochemical studies on the fibre types in the developing jaw muscles of domestic fowl (Gallus domesticus). Life Sciences., 9 : 949-959.

Duffy, P. and Sanderson, J.C. 1971. Studies on the control of lactate dehydrogenase activity in mammalian cells. II Demonstration of rapid continuous variations in lactate dehydrogenase activity in human erythrocytes and their relation to a biological activator and an inhibitor of lactate dehydrogenase. Biochem. Biophys. Acta., 244 : 613-617.

Duve, C. de. 1959. Lysosomes, a new group of cytoplasmic particles. In : "Subcellular particles". T. Hyashi (ed.) Ronald Press. Co., New York, pp.128-159.

Ehlers, N. 1970. Morphology and histochemistry of the corneal epithelium of mammals. Acta. Anat., 75 : 161-198.

Englard, S. and Breiger, H.H. 1962. Beef-heart malic dehydrogenase. 11 Preparation and properties of crystalline supernatant malic dehydrogenase. Biochem. Biophys. Acta., 56 : 571-583.

Eranko, O. 1951. Histochemical evidence of intence phosphatase activity in the hypothalamic magnocellular nuclei of the rat. Acta. Physiol. Scand., 24 : 1-6.

Farner, D.S. 1978. In "Introduction" Chemical Zoology (Vol.X Aves, pp.1-36. Ed. Brush A.H.) eds. Florkin, M. and Scheer, B.T. Academic Press, New York, San Francisco, London.

Fell, H.B. and Danielli, J.F. 1943. The enzymes of healing wounds. I. The destribution of alkaline phosphomonoesterase in experimental wounds and burns in rat. Brit. J. Exp., 24 : 196-203.

Firth, J.A. and Hicks, R.M. 1972. Membrane specialization and synchronized cell death in developing rat transitional epithelium. J. Ant., 113 : 95-107.

Flaxman, A. 1972. Cell differentiation and its control in the vertebrate epidermis. Amer. Zool., 12 : 13-25.

Flexner, L.B., Flexner, J.B., Roberts, R.B. and Haba, de la G. 1960. Lactic dehydrogenase of the developing cerebral cortax and liver of the mouse and guinea pig. Dev. Biol., 2 : 313-328.

Freinkel, R.K. 1972. Lipogenesis in epidermal differentiation of embryonic chick skin. J. Invest. Dermatol., 59 : 332.

- Fullmer, H.M. 1963. Dehydrogenase in developing teeth of rats. J. Histochem. Cytochem., 11 : 641-644.
- George, J.C. and Berger, A.J. 1966. "Avian Myology" Academic Press, New York.
- Germino, N.I., Dalbora H. and Wahrmann, J.P. 1965. Succinic dehydrogenase in the development of the skeletal muscles of Chicks. Acta. Anat., 62 : 434-444.
- Ghiretti, F. 1950. On the activity of acid and alkaline phosphatase during tail regeneration in Triturus cristatus (Laur). Experientia, 6 : 98-100.
- Giese King, R. 1963. Submikroskopische struktur unter schiefe zwischen Histozyten and Fibroblasten. Beitr. Path. Anat. u. allg. Path., 128 : 259-282.
- Glenner, G.G. and Burstone, M.S. 1958. Esterase and phosphatase activity in Necturus maculosus. A study in comparative histoenzymolog. Anat. Rec., 130: 243-249.
- Greenfield, P.C. and Boell, E.J. 1970. Malate dehydrogenase and glutamate dehydrogenase in chick liver and heart during embryonic development. J. Exp. Zool., 174 : 115-123.
- Greij, E.D. 1973. Effects of sexhormones and plumage of the blue winged teal. Auk, 90 : 533-551.
- Grobstein, C. 1967. Mechanism of organogenetic tissue interaction. Natn. Cancer. Inst. Monograph, 26 : 279-299.
- Gurr, E. 1956. A practical manual of medical and Biological Staining techniques. Leonard Will (Books) Ltd. London.

- Gustafson, T. 1954. Intern.Rev.Cytol. 3 : 377. As cited by Gustafson, T. in The Biochemistry of Animal development. R. Weber (Ed.), Vol.1. Academic Press, New York and London.
- Hamilton, H.L. 1955. Relation between alkaline phosphatase, beryllium, and morphogenesis of the feather. Anat. Rec., 122 : 418-419.
- Hamilton, H.L. 1965. Chemical regulation of development in the feather. In "Biology of the skin and hair growth". Eds. A.G. Lyne and B.F. Short, Angus and Robertson, Sydney. American Elsevire Publishing Co., Inc., New York.
- Hammer, S.P. and Motter, N.K. 1971. Tetrazolium salt and electron microscopic studies of cellular degeneration and necrosis in the interdigital areas of the developing chick limb. J.Cell.Sci., 8 : 229-251.
- Hilfer, H.R. 1962. The stability of embryonic chick thyroid cell in vitro as judged by morphological and physiological criteria. Develop.Biol., 4 : 1-21.
- Hinde, R.A. and Steel, E. 1964. Effect of exogenous hormones on the tactile sensitivity of the canary brood patch. J. Endocr., 30 : 355-360.
- Hinsch, G.W. and Buxbaum, S.K. 1965. Histochemistry of the developing chick oesophagus and trachea 1. Alkaline phosphatase. J.Morph., 116 : 109-116.

- Hohn, E.O. and Cheng, S.C. 1965. Prolactin and the incidence of brood patch formation and incubation behaviour of the two sexes in certain birds with special reference to phalaropes. Nature, 208 : 197-198.
- Hosker, A. 1936. Studies on the epidermal structures of birds. Roy.Soc.London. Phil.Trans.(Sa.B.) 226 : 143-188.
- Hutchison, R.E. Hinde, R.A. and Steele, E. 1967. The effects of oestrogen, progesterone and prolactin on brood patch formation in ovariectomized canaries. J. Endocr., 19 : 379-389.
- Ishida, K., Suzuki, T., Kusuvara, S. and Yamaguchi, M. 1973. Influence of Preen Gland Removal on the Lipid over the Plumage of Rooster. Polut. Sci., 52 : 83-87.
- Ishimura, K. and Pujie, K. 1970. A histochemical study on the correlation between secretory activity and the TCA cycle in the gland cell. Histochemie, 21 : 314-321.
- Jacob, J. 1978. In "Uropygial Gland Secretion and Feather Waxes". Chemical Zoology (Vol.X Avas. pp.165-213, Ed.by Brush, A.H.) Eds. Florkin, M. and Scheer, B.T. Academic Press. New York, San Francisco, London.
- Jacob, J. and Grimmer, G. 1975. Z. Naturforsch, Teil. C., 30 : 363-368. Cited by Jacob, J. 1978.
- Jaffe, R.C. and Geschwind, I.I. 1974. Studies on prolactin inhibition of thyroxine induced metamorphosis in Rana catesbiana. tadpoles. Gen.Comp. Endocr., 22 : 289-295.

- Johnson, P.L. and Bevelander, G. 1948. Glycogen and Phosphatase in the developing hair. Ant. Rec., 95 : 193-199.
- Jones, R.E. 1969a. Hormonal control of incubation patch development in the California quail, Lophortyz californicus Gen. Comp. Endocr. 13 : 1-13.
- Jones, R.E. 1969b. Epidermal hyperplasia in the incubation patch of the California quail, Lophortyz californicus, in Relation to pituitary prolactin content. Gen. Comp. Endocr., 12 : 498-502.
- Jones, R.E. 1971. The incubation patch of birds. Biol. Rev., 46 : 315-339.
- Jones, R.E., Kreider, J.W. and Criley, B.B. 1970. Incubation patch of the chicken response to hormones in situ and transplanted to a dorsal site. Gen. Comp. Endocr., 15 : 398-403.
- Juhn, M. 1937. Growth rates of successive feathers from single follicles in the juvenile Brown Leghorn. Soc. Exptl. Biol. and Med. Proc., 36 : 777-780.
- Juhn, M. 1938. Emergence orders and growth rates in the Juvenile phimage of the Brown Leghorn. J. Expt. Zool., 77 : 467-487.
- Juhn, M. 1947. Effect of thiouracil on feather pigment determination in hybrid fowl. Jour. Hered., 38 : 113-116.
- Juhn, M. 1963. An examination of some interpretations of molt with added data from progesterone and thyroxine. Wilson Bul. 75 : 191-197.

- Juhn, M. and Frap, R.M., 1934. Pattern analysis in pharmage. IV. Order of assymetry in the breast tracts. Soc.Expt. Biol.Med.Proc., 31 : 1187-1190.
- Juhn, M. and Harris, P.C. 1955. Local effects on feather papillae of thyroxine and of progesteron. Proc. Soc. Exptl. Biol. M., 90 : 202-204.
- Kaltenbach, J.C., Lipson, M.J. and Wang, H.K. 1977. Histochemical Study of the amphibian digestive tract during normal and thyroxine-treated metamorphosis. I. Alkaline phosphatase. J.Exp.Zool., 202: 103-120.
- Kar, A.B. 1950. Alkaline phosphate in the urophygial gland of normal and androgen treated pigeon. Proc.Nat. Inst.Sci. India, 16 : 41-45.
- Kennedy, E.P. 1954. Cited by Goodwin, T.W. 1960. Recent Advances in biochemistry. J. and Churchill Ltd. Gloucester Place, London.
- Kitto, G.B. and Lewis, R.G. 1967. Purification and properties of tuna supernatant and mitochondrial malic dehydrogenases. Biochim. Biophys. Acta., 139: 1-15.
- Klicka, J. and Kaspar, J.L. 1970. Changes in the enzyme activities of the hatching muscle of the chick (Gallus domesticus) during development. Comp. Biochem.Physiol., 36 : 803-809.
- Klockas, M. and Wegelius, O. 1969. Lysosomal enzymes in regenerating rat liver. Proc. Soc. Exp. Biol. Med., 131 : 218-222.

- Kobayashi, H. 1952. Studies on moulting in pigeon. V. Oxygen consumption of the breeding pigeon. and of the thiourth-treated pigeon. Annot.Zool.Jap., 25 : 371-376.
- Kobayashi, H. 1953. Studies on moulting in pigeon VII
Inhibitory effect of lactogen on moulting Jap. J.Zool.,
11 : 21-26.
- Kobyashi, H. 1954. Studies on molting in pigeon. VIII.
Effects of sex steroids on molting and thyroid gland.
Ann. Zool.Jap., 27 : 22-26.
- Koning, A.L. and Hamilton, H.L. 1954. Localization of enzyme system, nucleic acids and polysaccharides during morphogenesis in the down feather of the chick. Am.J.Anat.,
95 : 75-108.
- Kratochmil, K. 1969. Organs specificity in mesenchymal induction demonstrated in the embryonic development of the mammary gland of the mouse. Devel. Biol., 20: 46-71.
- Kroon, D.B. 1952. Phosphatase and the formation of protein-carbohydrate complexes. Acta. Anat., 15 : 317-328.
- Kuhn, E.R. and Neumen, E.J., 1978. Serum level of triodo thyronine and thyroxine in the domestic fowl following mild cold exposure and injection of synthetic thyrotropinreleasing hormone. Gen.Comp.Endocr., 34 : 336-342.
- Langdon, R.G. 1957. The biosynthesis of fatty acids in rat Liver. J.Biol.Chem., 226 : 615-629.
- Lash, J.W., Saxen, L. and Kosher, R.A. 1974. Human chondroge-

- nesis : Glycosaminoglycan content of embryonic human cartilage. J. Exp. Zool., 189 : 127-131.
- Lasman, M. 1967. Observation on the acid phosphatase in Myorella Palaetinesis. J. Cell. Physiol., 69: 151-154.
- Laurenz, N.K. and Johnson, L.G. 1970. Thyroid hormone effects on chick scale morphogenesis and keratinization. J. Embryol. Exp. Morph., 24 : 65-71.
- Laurint, T.C. 1966. In vitro studies in the transport of macromolecules through the connective tissue. Fed. Proc., 25 : 1128-1134.
- Lewis, C., Schmitt, M. and Hershey, F.B. 1967. Heterogeneity of lactic dehydrogenase of human skin. J. Invest. Derm., 48 : 221.
- Little, F.R. 1940. Physiology and development of the feather. III. Growth of mesodermal constituents and blood circulation in the pulp. Physiol. Zool., 13 : 143-175.
- Lillie, F.R. and Wang, H. 1940. Physiology of development of feathers. IV. The diurnal curve of growth in Brown Leghorn fowl. Nat. Acad. Sci. Washington Proc., 26 : 67-85.
- Lillie, F.R. and Wang H. 1941. Physiology of development of the feather. V. Experimental morphogenesis. Physiol. Zool., 14 : 103-135.
- Lillie, F.R. and Wang, H. 1943. Physiology of development of the feather VI. : The production and analysis of feather-chimacrae in fowl. Physiol. Zool., 16 : 1-21.

- Lillie, F.R. and Wang H. 1944. Physiology of development of feather. VII. An experimental study of induction. Physiol. Zool., 17: 1-30.
- Lillie, R.D. 1965. Histopathologic technic and practical histochemistry. McGraw-Hill Book Co., New York, Toronto, Sydney, London.
- Lucas, A.M. 1968. Lipoid secretion in the avian epidermis (Abstract) Anat. Rec., 160: 386-387.
- Lucas, A.M. 1970. Avian functional anatomic problems. Fed. Proc., 29: 1641-1648.
- Lucas, A.M. and Stettenheim, P.R. 1972. Avian Anatomy : Integument II Agriculture handbook 362, United States Department of Agriculture.
- Wagon, D.K. 1970. Ph.D. Thesis entitled "Studies on the Normal and regenerating tail of the house lizard, Hemidactylus flaviviridis, with special emphasis on oxidative enzymes", submitted to the M.S. University of Baroda, Baroda-2, India.
- Malpighi M. 1967. Opera Posthuma Aeneis figuris illustrata. 2 pts. in 1 v. folia. A & J Churchill, London.
- Matoltsy, G.A. 1969. Keratinization of the avian epidermis - an ultrastructural study of the new born chick skin. J. Ultrastructure Res., 29: 438-458.
- Medway, L. 1961. Domestic pigeon. The stimulus provided by the egg in the nest. J. Endocr., 23 : 9-12.

- Menon, G.K. 1974. Ph.D. thesis entitled "Certain metabolic aspects of feather development, moult and regeneration in pigeon (Columbia livia)" submitted to the M.S. University of Baroda, Baroda-2, India.
- Menon, G.K. and Shah, R.V. 1975. Aldolase activity in pigeon definitive feathers during development and regeneration. PAVO., 13 : 74-82.
- Mercer, E.H. 1961. Keratin and Keratinization. Pergamon Press, London.
- Michael, J.C. 1965. Distribution of dehydrogenases in the skin of Rhesus monkey (Macaca Mulats). J.Histochem. Cytochem., 13 : 669-675.
- Mills, J.B. and Lang, C.A. 1972. Acid phosphatase Profile during the life span of the mosquito. J. Geronto., 27 : 333-337.
- Misch, D. 1962. Localization of acid phosphatase in tissues of metamorphosing flesh-fly larvae. J.Histochem. Cytochem., 10: 666.
- Mishims, Y. 1964. Lysosomal and non-lycosomal acid phosphatase activity of human skin. J. Cell.Biol., 23 : Abstract No.250 p.1224.
- Mishra, D. and Mohanty, B. 1967. Diurnal variation of the acid phosphatase activity in the leaves of the cowpea. Planta., 75 : 239-242.

- Mojamdar, M.V. Sharma, K.S., N.J. Chinoy and Shah, V.C. 1973.
 Biochemical and histochemical studies on white, brown
 and black skin regions of the guinea pig. Acta.
Histochem. Cytochem., 6 : 137-143.
- Montagna, W. 1962. "The structure and function of the skin"
 Academic Press, New York.
- Montagna, W. and Formisano, V. 1955. Histology and cytoche-
 mistry of human skin. VII. The distribution of succinic
 dehydrogenase activity. Anat. Rec., 122 : 65-71.
- Moog, F. 1944. Localization of acid and alkaline phosphatases
 in the early embryogenesis of the chick. Biol. Bull.,
86: 51-80.
- Moog, F. 1946. The physiological significance of the phospho-
 monoesterases. Biol. Rev., 21 : 41-59.
- Moog, F. 1950. The functional differentiation of the small
 intestine. I, the accumulation of alkaline phospho-
 monoesterase in the duodenum of the chick. J. Exp. Zool.,
115 : 109-129.
- Moog, F. 1951. The functional differentiation of the small
 intestine. II. The differentiation of alkaline phospho-
 monoesterase in the duodenum of the mouse. J. Exp. Zool.,
118 : 187-207.
- Moog, F. 1965. Enzyme development in relation to functional
 differentiation. In: The Biochemistry of Animal Develop-
ment. Ed. R. Weber, Academic Press, New York and London.

- Moore, E.C. and Hurlburt, R.B. 1962. Reduction of cytidine nucleotides to deoxycytidine nucleotides by mammalian enzymes Biochim. Biophys. Acta., 55 : 651-663.
- Mueller, N.S. 1968. Control of plumage sex dimorphism in ducks: evidence from skin grafts. Amer. Zool., 8: 758.
- Mueller, N.S. 1970. An experimental study of sexual dichromatism in the Duck, Anas platyrhynchos. J. Exp. Ecol., 173: 263-268.
- Mueller, N.S. 1976. Influence of embryonic estrogens on adult feather colouration in the Duck, Anas platyrhynchos. J. Exp. Zool., 175: 207-214.
- Mueller, N.S. 1977. Control of sex differences in the plumage of the House Sparrow, Passer domesticus. J. Exp. Zool., 202: 45-48.
- Nachals, M.M., Tsor, K.C., De Souza, E., Cheng, C.S. and Seligman, A.M. 1957. (As cited by Burstone, M.S., 1962)
- Naik, R.M. and Mistry, L. 1970. Breeding season and reproductive rate of Passer domesticus (L.) in Baroda, India. Proc. Gen. Meeting work. Group Grvrs: Birds IBP, PT. Secn. The Aague, Holland, Sept. 6-8, pp. 133-140.
- Nelson, J.S. and Wakefield, L.P. 1973. The quantitative histochemistry of the sympathoadrenal system. 1. Enzymes of glycolysis. J. Histochem. Cytochem., 21 : 184-188.
- Newburgh, R.W., Buckingham, B. and Herrmann, H. 1962. Levels of Reduced TPN generating systems in chick embryos in ovo and in explants. Arch. Biochem. Biophys., 97 : 94-99.

- Nicoll, C.S. 1974. Physiological action of prolactin in Handbook I Physiology. Section 7 : Endocrinology, Vol. IV, Pt.2 (E. Knobil and W.H. Sawyer, eds.) pp.253-292. American Physiological Society, Washington, D.C.
- Novikoff, A.B. 1961. Lysosomes and related particles. In The Cell. Vol.II : J.Brachet and A.E. Mirsky (Eds.) Academic Press, New York.
- Novikova, N.F. 1970. Aktivnost' fermentov energeticheskogo obmena v normal'noi kozhe cheloveka. VESTN DERMATOL VENEROL, 44 : 21-26.
- Ogata, T. and Mori, M. 1964. Histochemical study of oxidative enzymes in vertebrate muscles. J.Histochem.Cytochem., 12 : 171-182.
- Palad, G. and Farquhar, M. 1965. Cell junctions in amphibian skin. J.Cell.Biol., 26 : 265-291.
- Papaconstantinou, J. 1967. Metabolic control of growth and differentiation in vertebrate embryos. In: "The Biochemistry of Animal Development". Ed. R. Weber, Academic Press, New York and London.
- Pearse, A.G.E. 1968. Histochemistry, theoretical and applied. III. edition. Vol.I, J.G.A. Churchill Ltd. Glowcester Place, London.
- Platt, J.E. Christopher, M.A. and Sullivan, C.A. 1978. The role of prolactin in blocking thyroxine-induced differentiation of tail tissues in larval and neotenic Amblystoma

- tigrin. Gen.Comp.Endocr., 35 : 402-408.
- Pool, T.B. and Dent, J.N. 1977. The ultrastructure and the hormonal control of product synthesis in hedonic glands of the red-spotted Kewt, Notoptholmus viridescens. J.Exp.Zool., 201 : 177-202.
- Prakash, A. 1961. Distribution and differentiation of alkaline phosphatase in the gastrointestinal tract of steel head trout. J.Exp.Zool., 146 : 237-246.
- Pritchard, J.J. 1952. A cytological and histochemical study of bone and cartilage formation in the rat. J.Anat., 86 : 259-277.
- Quay, W.B. 1972. Integument and the environment. Glandular composition, function and evolution, Amer. Zool., 12 : 95-108.
- Racker, E. 1965. In "Mechanism in bicenergetics" Academic Press, New York, pp.212-214.
- Radhakrishnan, N. 1972. Ph.D. thesis entitled "Histological and histophysiological studies on the normal and regenerating tail of the scincid lizard, Mabuya carinata", submitted to the M.S. University of Baroda, Baroda-2, India.
- Raekallio, J. 1970. Enzyme histochemistry of wound healing. Progr.Histochem. Cytochem., 1 : 1-101.
- Ramachandran, A.V. 1972. Ph.D. thesis entitled "Studies on certain biochemical and histochemical aspects of the normal and regenerating tail of the scincid lizard,

- Mahua carinata", submitted to the M.S. University of Baroda, Baroda-2, India.
- Ramles, M.E., 1960. "The Integumentary System". In Biology and Comparative Physiology of Birds, ed. A.J. Marshall, Vol.1, pp.189-240. New York, Academic Press.
- Rawles, M.E. 1963. Tissue interactions in scale and feather development as studied in dermal-epidermal recombination. Embryol and Expt. Morph., 11 : 765-789.
- Rawles, M.C. 1965. Tissue interactions in the morphogenesis of the feather. In Lyne A.G. and Short B.F. Eds. Biology of the Skin and Hair Growth, pp.105-128. American Elsevier Publishing Co., Inc. N.Y.
- Reichard, P. 1958. The synthesis of deoxyribose by the chick embryo. Biochem. Biophys. Acta., 27 : 434-435.
- Reichard, P. 1960. Formation of deoxyguanosine-5-phosphate with enzymes from chick embryo. Biochem. Biophys. Acta., 41 : 368-369.
- Reichard, P. 1961. The biosynthesis of deoxyribonucleic acid by the chick embryo. J. Biol. Chem., 236 : 2511-2513.
- Rigdon, R.H. and Packchianian, A.A. 1974. Histological study of the skin of congenitally athymic 'nude' mice. Tex. Reg. Biol. Med., 32 : 711-724.
- 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.
- Rogers, K.T. 1963. Studies on chick brain differentiation.
- V. Comparative histochemical alkaline phosphatase studies in chick retine and black bird, mouse, rabbit, cat and human brain. J.Exp.Zool., 153: 21-36.
- Romanual, F.C.A. and Barnister, R.G. 1962. Localised areas of high alkaline phosphatase activity in endothelium of arteries. Nature, 195 : 611-612.
- Rorie, D.K. and Muldoon, S.M. 1977. Increased reactivity of Sutineous vains of rabbits with estrogen and progesterone treatment. Anat. Rec., 187 : 697.
- Rosenquist, T.H. 1977. A comparison of the PAS reaction in disbetic connective tissue with control connective tissue. Anat. Rec., 187 : 698.
- Sasai, Y., 1974. Lactic dehydrogenase activity in hair follicles of stumptailed macque (Macaca speciosa). Anat. Rec., 178: 759-767.
- Saunders, J.W., Jr. 1966. Death in embryonic systems, Science, 154 : 604-612.
- Sauter, J.S. 1967. Investigations on the physiology of the woody rays of the polar. II. The seasonal changes in activity of acid phosphatase in woody ray parenchyma and its relation to the metabolism and transport of carbohydrates. Zeit.Pflanzen-Physiol, 55: 349-362.

- Sawyer, R.H. 1972a. Avian Scale Development. 1. Histogenesis and morphogenesis of the epidermis and dermis during formation of the scale ridge. J.Exp.Zool., 181 : 365-384.
- Sawyer, R.H. 1972b. Avian scale development. II. A Study of cell proliferation. J.Exp.Zool., 181, 385-408.
- Scheen, S.R. and Winkalman, R.K. 1960. Alkaline phosphatase in the skin of certain animals. Arch. Dermatol., 83 : 439-446.
- Scheib, D. 1963. Properties and role of acid hydrolase of the Mullerian ducts during sexual differentiation in the male chick embryo. CIBA found. symp. Lysosomes. Little Brown and Co., Boston, Massachusetts. pp.264-281.
- Scheib, D. 1965. Structure fine du canal de muller de l'embryon de polulet : l'lesions cytoplasmiques du canal male en regression. Compt. Rend. Acad. Sci., 260: 1252-1254.
- Schmidt, A.J. 1963. The localization of acid phosphatase in the limb tissues of adultnewt Diemictylus viridescenes. J.Exp.Zool., 152 : 91-100.
- Schmidt, A.J. 1968. Cellular biology of verterbate regeneration and repair. Chicago University Press.
- Schmidt, A.J. and Weary, M. 1962. The distribution of alkaline phosphatase in the regenerating forelimb of the adult newt, Diemictylus viridescens. J.Exp.Ecol., 150: 69-81.
- Schmidt, A.J. and Weidman, T. 1964. Dehydroginases and aldolase in the regenerating forelimb of the adult newt,

- Diemictylus viridescens. J.Exp.Zool., 155:303-316.
- Schwarz, E. 1931. Pigmentatierung, form und wachstum der federn des haushhns in abhangingkeit von der thyreoidea-funktion - Wilhem Roux Arch.F. Entwicklungemech d. Organ., 123 : 1-38.
- Selander, R.K. and Yang, S.Y. 1966. The incubation patch of the House Sparrow, Passer domesticus, Linnaeus. Gen.Comp. Endocr., 6 : 325-333.
- Sengel, P. 1958a. Recherches experimentales sur la differenciation des germes phmaires et du pigmet de la peau de, l'embryon de poulet en culture in vitro. Ann.Sci. Nat. Zool., 20 : 431-514.
- Sengel, P. 1958b : La differenciation de la peau et dus gumes plumaires de l'embryon de poulet en culture in vitro. L'ann. Biol., 62 : 29-52.
- Sengel, P. 1976. Morphogenesis of the skin. Developmental and cell biology series. Eds. M. Amercrombie, D.R. Newth and J.G. Terrey. Cambridge University Press, Cambridge, London, New York, Melbourne.
- Sengel, P., Dhouailly, D. and Kieny, H. (1969). Aptitude des constituants cutanes de l'apterie medio-ventrah du poulet a former des plumes. Devel.Biol., 19, 436-446.
- Sengel, P. and Kieney, M. 1967. Production d'une pteryle supplementaire chez l'embryon de Poult. I Etude morphologique. Archs. Anst. Microse.Murph.Exp., 56 : 11-30.

- Shah, R.V. and Chakko, T.V. 1969. Histochemical localization of succinic dehydrogenase (SDH) in the normal and regenerating tail of the house lizard, Hemidactylus flaviviridis. J. Anim. Morphol. Physiol., 16: 89-96.
- Shah, R.V. and Menon, G.K. 1971. Histochemical studies on pigeon definitive feathers during post-hatching, induced and regenerative mode of development: I. Acid Phosphatase. Pavo., 9 : 48-61.
- Shah, R.V. and Menon, G.K. 1972. Histochemical studies on pigeon definitive feathers during post-hatching, induced and regenerative mode of development: III. Lipids, lipase and B-Hydroxy butyrate dehydrogenase. Pavo., 10 : 30-42.
- Shah, R.V. and Menon, G.K. 1973. Histochemical studies on pigeon definitive feathers during post-hatching, induced regenerative mode of development. IV. Succinate and malate dehydrogenases. Pavo., 11 : 92-193.
- Shah, R.C. and Menon, G.K. 1974a. Histochemical studies on pigeon definitive feathers during post-hatching, induced and regenerative mode of development: II. Alkaline phosphatase. J. Anim. Morphol. Physiol., 21 : 8-18.
- Shah, R.V. and Menon, G.K. 1974b. Histochemical studies on pigeon definitive feathers during post-hatching, induced and regenerative feathers during post-hatching, induced and regenerative mode of development. : V. Lactate and

- alpha glycerophosphate dehydrogenase. Pavo, 12 : 75-84.
- Shah, R.V. and Menon, G.K. 1976. Metabolic regulation of growth and differentiation in developing feathers: Histochemical evaluation of the involvement of hexose monophosphate pathway. J.Anim. Morphol.Physiol., 23 : 122-131.
- Shah, R.V. and Ramachandran, A.V. 1970 Lactate and malate dehydrogenase (LDH and MDH) in the regenerating tail of the lizard, Mabuya carinata. Acta. Histochem. Cytochem., 3 : 152-159.
- Shah, R.V. and Ramachandran, A.V. 1973. Glucose-6-phosphate dehydrogenase and malic enzyme in the normal and regenerating tail of the Scincid lizard, Mabuya carinate. Can. J. Zool., 51 : 641-645.
- Shibaeva, S.M.K. 1970. Voprosu o lipidakh epidermisa (Epidermal lipids). Arkh Anat. Gistol Embriol. 58: 71-75.
- Siekevitz, P. and Watson, M.L. 1965. Cytochemical studies of mitochondria. II. Enzymes associated with a mitochondrial membrane fraction. J.Biophys. Biochem.Cytol., 2: 653-669.
- Sigma Technical Bulletin. No.85. (1971). The histochemical demonstration of acid and alkaline phosphatases. Sigma Chemical company, USA.
- Smith, C.H. and Kissane, J.M. 1963. Distribution of forms of Lactic dehydrogenase within the developing rat kidney. Dev. Biol., 8 : 151-164.

- Solomon, J.B. 1959. Changes in the distribution of glutamic, lactic and malic dehydrogenases in liver cell fractions during development of the chick embryo. Dev. Biol., 1: 182-198.
- Somero, G.H. and Hochachka, P.W. 1968. Isoenzymes and short-term temperature compensation in poikilotherms: Activation of lactate dehydrogenase isoenzymes by temperature decrease. Mature., 223 : 194-195.
- Sood, P.P. and Tewari, H.B. 1969. A comparative study on the distribution of acid phosphatase and its functional significance in nuclei of the olfactory neurons of some vertebrates. Acta. Histochem., 32 : 331-340.
- Sorokin, S., Padykula, H.A. and Herman, E. 1959. Comparative histochemical patterns in developing mammalian lungs. Dev. Biol., 1 : 125-151.
- Sottocasa, G.L., Kuylenstierna, B. Ernster, L. and Bergstrand, A. 1967. An electron-transport System associated with the outer membrane of liver mitochondria. J. Cell. Biol., 32 : 415.
- Spearman, R.I.C. 1966. The keratinization of epidermal scales, feathers and hairs. Biol. Rev., 41 : 59-96.
- Spooner, B.B. 1974. In "Concepts of Development" Eds. Lash, J. and Whittacker, J.R., Sinauer Associates, Inc. Publishers. Stamford, Connecticut, pp.213-240.

- Spooner, B.S. 1974. "Morphogenesis of vertebrate organs". In Concepts of Development. Eds. Lash, J. and Whitaker, J.R. Sinauer Associates Inc. Stamford.
- Stettenheim, P.R. 1972. "The integument of Birds" in Avian Biology, Vol.II Ed. D.S. Farner, Academic Press, Inc., New York and London.
- Stettenheim, P.R., 1973. The bristles of birds. The living Birds. Twelfth annual, Cornell Laboratory of Ornithology. (published in 1974).
- Stressmann, E. and Stressmann, V. 1966. Die Mauer der Vogel. J. Ornithol., (Sonderheft). 107: 1-447.
- Szirmai, J.A. 1956a. Studies on the connective tissue of the cock comb. I. Histochemical observations on the ground substance. J.Histochem. Cytochem., 4 : 96-105.
- Szirmai, J.A. 1956b. Studies an connective tissue of the cock comb. II. Effect of handrogens. Proc.Soc.Exp.Biol.Med., 95: 92-97.
- Tanabe, Y. and Katsurgai, T. 1952. Thyroxine secretion rates of moulting and laying bens, and general discussion on the hormonal induction of molting in hens. Mogyo. Gijutsu kenyusho Hokoku G., 21 : 49-59.
- Tanabe, Y. and Katsuragi, T. 1962. Bull. Natt. Inst.Agric. Sci.Ser.G. 21 : 49-59. cited by Farner D.S. 1978. In Chemical Zoology, Vol.X.

- Ten Cate, A.R. 1959. The histochemistry of human tooth development Proc.Nutr.Soc., 18: 65-70.
- Uchida, Y. 1970. On the colour change in Japanese Crested Ibis. A new type of cosmetic colouration in birds. Misc. Rep. Yarn. Inst. Ornithol., 6 : 54-72. (In Japanese with English summary).
- Vangien, L. 1955. Sur las reaction testi testiculurises an suene Moineau domestique illuminea diversis epoques de is mauvaise Saison. Bull.Biol.Belg., 139: 218-214.
- Vericak, T.D. 1938. Neues uber Auftreten and Bedeutung von Fettsbustanze in der Guflugelbut (speziell in der Epidermis), Z. Mikrosk-Anat. Forsch., 44: 119-130.
- Verzar, F. and McDougall, E.J. 1936. Absorotion from the intestine . Longmans, Green, London.
- Vilter, V. 1934. La formation de la phime et son mecanisme histologique. Assoc. Anat. (Nancy, France) Bul. 36, Anat.(Nancy, France) Bul. 36, 42 p.
- Vilter, V. 1935. Morphogenese consale de la differentiation structurale de la plume. Assoc. Anat. (Nancy, France) Bul. 37, 45 pp.
- Voitkevich, A.A. 1966. "The feathers and plumage of Birds". October House Inc., New York.
- Wada, M., Arimatsu, Y. and Kobayashi, H. 1975. Effect of prolactin on thyroid function in Japanese qua. (Cothrnix Goturoix japonia) Gen. Comp. Endocr., 27: 28-33.

- Wagner, H.O. and Muller, C. 1963. Die Mauser und die den Federausfall Fordernden und hemmenden Faktoren. Z. Morphol.Oekol. Tiere., 53 : 107-151.
- Wang, H. 1943. The morphogenetic functions of the epidermal and dermal components of the papilia in feather regeneration. Physiol. Zool., 16 : 325-350.
- Watson, G.E. 1963. Mechanism of feather replacement during natural moult. Auk, 80: 486-495.
- Watterson, R.C. 1942. The morphogenesis of down feathers with special reference to the developmental history of melanophores. Physiol. Zool., 15 : 234-259.
- Weber, R. and Niehus, B. 1961. The acid phosphatase activity in the tail of xenopus/larvae during growth and metamorphosis. Helv. Physiol. Acta., 19: 103-117.
- Weiss, C. 1966. Activity of acid phosphatase in regenerating and resorbing limbs of larval Amblystoma. Amer.Zool., 2 : 568.
- Wessells, N.K. 1965. Morphology and proliferation during early feather development. Dev.Biol., 12: 131-153.
- Wessells, N.K. 1968. Problems in the analysis of determination, mitosis and differentiation. In "Epithelial mesenchymal Interactions (R. Rleischmajor und R. Billingham, eds.), pp.131-151. Williams and Wilktus, Baltimore.
- Wiggert, B. and Villee, C.A. 1962. Lactic and malic dehydrogenase in Human foetal tissues. Science, 138: 509-510.

- Witschi, E. 1936. Effect of gonadotropic and cestrogenic hormones on regenerating feathers of waaven finches. Soc. Expt. Biol. and Med. Proc., 484-489.
- Wodzicki, K. 1951. Physiology of the thyroid. Ibis, 93: 143.
- Wolfe, H.J. and Cohen, R.B. 1963. Histochemical studies on the regenerating urodele limb. I. Oxidative and glycolytic enzymes, Dev. Biol, 8 : 48-66.
- Yatvin, M.B. 1966a. Polysome morphology: Evidence for endocrine control during chick embryogenesis. Science, 151 : 1001-1003.
- Yatvin, M.B. 1966b. Hypophyseal control of genetic expression during chick feather and skin differentiation. Science, 153 : 184-185.
- Yashzato, K. and Yastmasu, I. 1972a. Effect of prolactin on the tadpole tail fin: III. Effect of prolactin on the hydroxylation of procollagen-proline of the tail fin. Devel. Growth Differentiation, 4: 57-62.
- Yoshzate, K. and Yestmosu, I. 1972b. Effect of prolactin on the tadpole tail fin: IV. Effect of prolactin on the metabolic fate of hyaluronic acid, collagen and RNA with special reference to Catabolic process. Develop. Growth Differentiation, 14 : 119-127.