BIBLIOGRAPHY

Allen, W.R. and Richards, A.G. 1954. Oxygen uptake of muscle homogenates from three species of insects in the presence of added succinate, cytochrome c and phosphate. Canadian J. Zool., 32, 1 - 8.

Ammon, R. and Jarrma, M. 1950. The Enzymes, Vol. I. Ed. J.B.Smner and K. Myrback. Academic Press. Inc. N.Y.

Baldwin, E. 1957. Dynamic Aspects of Biochemistry, Cambridge University Press, Cambridge.

Barron, E.S.G. 1951. Advances in Enzymology, Vol. 11, Ed. F.F.Nord. Interscience Publishers Inc., New York.

Barron, E.S.G. and Tamhisain, T.N. 1948. The metabolism of cockroach muscle. J.Cell.Comp.Physiol. 32, 57-76.

Beall, G. 1948. The fat content of a butterfly, Danaus plexippus Linn., as affected by migration. Ecology, 29, 80-94.

Becht, G. and Dresdon, D. 1956. Physiology of the locomotory muscles in the cockroach. Nature,Lond., 177, 836-37.

Boettiger, E.G. 1960. Insect flight muscles and their basis physiology. Ann. Rev.Entomol., 5, 1-16.

Chadwick, L.E. 1947. The respiratory quotient of drosophila in flight. Biol.Bull. Woods Hole, 93, 229-239.

Chadwick, L.E. 1953a. The flight muscles and their control. Physiological properties of the flight musculature. In Roeder,K.D. Insect Physiology. New York.

Chadwick, L.E. 1953b. The motions of the wings. Factors affecting wing beat frequency. In Roeder,K.D. Insect Physiology. New York.

Chance, B. and Sacktor, B. 1958. The respiratory metabolism of insect flight muscle. II. Kinetics of respiratory enzymes in flight muscle sarcosomes. Arch.Biochem. Biophys. 76, 509.

Chappell, J.B. and Perry, S.V. 1953. The respiratory and adenosine triphosphatse activities of skeletal muscle mitochondria. Biochem.J., 55, 586

DiNella, R.R. and Meng, H.C. 1960. Properties of intestinal lipase. J.Biol.Chem. 235, 3076.

Edwards, G.A., Santos, P.deS, Santos, H.L.deS and Sawaya, P. 1954a. Electron microscope studies on insect muscle. I. The flight and coxal muscles of Hydrophilus piceus. Ann.Ent.Soc.Amer., 47, 343-354.

Edwards, G.A., Santos, P.deS., Santos, H.L.deS and Sawaya, P. 1954b. Electron microscope studies on insect muscle. II. Flight and leg muscles of Belostoma and Periplaneta. Ann.Ent.Soc.Amer. 47, 459- 467.

Edwards, G.A. and Ruska, H. 1955. The function and metabolism of certain insect muscles with relation to their structure. Quart.J.Micr.Sci. 96, 151-159.

Fiore, J.V. and Nord. F.F. 1950. Isolation and some properties of lipase from Fusarium lini Bolly. Archiv.Biochem. 26, 382

Fulton, R.A. and Romney, V.E. 1940. The chloroform soluble components of beet leafhoppers as an indication of the distance they move in the Spring. J.Agric.Res. 61, 737-43.

George, J.C. and Eapen, J. 1960. Certain bichemical properties of the pigeon adipose tissue lipase . J.Anim. Morph.Physiol. 7, 59-69.

George, J.C. and Iype, P.T. 1960a. Improved histochemical demonstration of lipase activity. Stain.Tech. 35, 151.

George, J.C. and Iype, P.T. 1960b. A histochemical study of the atrioventricular bundle (Bundle of His) and the myocardium of the sheep heart. J.Anim.Morph.Physiol. 7, 78-85.

George, J.C. and Jyoti, D. 1955. Histological features of the breast and leg muscles of bird and bat and their physiological and evolutionary significance. J.Anim. Morph.Physiol. 2, 1-6.

George, J.C. and Jyoti, D. 1957. Studies on the structure and physiology of the flight muscles of birds. II. The relative reduction of fat and glycogen in the pectoralis major muscle during sustained activity. J.Anim.Morph.Physiol. 4, 119-123.

George, J.C. and Jyoti, D. 1958. Studies on the structure and physiology of the flight muscles of bats. II. The relative reduction of fat and glycogen in the pectoralis major muscle during sustained activity. J.Anim.Morph.Physiol. 5, 57-60.

George, J.C. and Naik, R.M. 1957. Studies on the structure and physiology of the flight muscles of birds. I. The variations in the structure of the pectoralis major muscle of a few representative types and their significance in the relative modes of flight. J.Anim. Morph.Physiol. 4, 23-32.

George, J.C. and Naik, R.M. 1958. The relative distribution of mitochondria in the two types of fibres in the pectoralis major muscle of the pigeon. Nature.Lond. 181, 782-83.

George, J.C. and Naik, R.M. 1959a. Studies on the structure and physiology of the flight muscles of birds, 4. Observations on the fibre architecture of the pectoralis major muscle of the pigeon. Biol.Bull., Woods hole., 116, 239-47.

George, J.C. and Naik, R.M. 1959b. Studies on the structure and physiology of the flight muscles of birds. 5. Some histochemical and cytochemical observations on the structure of the pectoralis. J.Anim.Morph.Physiol. 6, 16-23.

George, J.C., Nair, S.M. and Scaria, K.S. 1958. Studies on the structure and physiology of the flight muscles of birds. 3. Alkaline phosphatase activity in the pigeon breast muscle. Curr.Sci. 27, 172.

George, J.C. and Pishawikar, S.D. 1959. Studies on the structure and physiology of the flight muscles of birds. 8. ATPase activity and sulphydril groups in the pigeon breast muscle. J.Anim.Morph.Physiol., 6, 103-105.

George, J.C. and Pishawikar, S.D. 1961. Acid phosphatase activity in the pigeon breast muscle. Naturwissenschaften. 4, 104.

George, J.C. and Scaria, K.S. 1956. On the occurrence of lipase in the skeletal muscles of vertebrates and its possible significance in sustained muscular activity. J.Anim.Morph.Physiol. 3, 91-103.

George, J.C. and Scaria, K.S. 1957. Lipase activity in the vertebrate heart muscle and its relation to basal metabolism. J.Anim.Morph.Physiol. 4, 107-112.

George, J.C. and Scaria, K.S. 1958a. Histochemical demonstration of lipase activity in the pectoralis major muscle of the pigeon. Nature. Lond., 181, 783.

George, J.C. and Scaria, K.S. 1958b. Histochemistry of muscle lipase. J.Anim.Morph.Physiol. 5, 43-48.

George, J.C. and Scaria, K.S. 1958c. A histochemical study of succinic dehydrogenase activity in the pectoralis major muscle of the pigeon and certain other vertebrate skeletal muscles. Quart.J.Micr.Sci. 99, 469-73.

George, J.C. and Scaria, K.S. 1959. Pigeon breast muscle lipase. J.Anim.Morph.Physiol. 6, 55-66.

George, J.C., Susheela, A.K. and Scaria, K.S. 1958a. A quantitative and histochemical study of lipase activity in the pectoralis major muscle of the bat. Naturwissenschaften, 45, 93-94.

George, J.C., Susheela, A.K. and Scaria, K.S. 1958b. Studies on the structure and physiology of the flight muscles of bat. 3. Alkaline phosphatase and succinic dehydrogenase activity in the breast muscle - A histochemical study. J.Anim.Morph.Physiol. 5, 110-112.

George, J.C. and Talesara, C.L. 1961a. Histochemical observations on the succinic dehyfrofenase and cytochrome oxidase activity in the pigeon breast muscle. Quart.J.Micr.Sci. (In press).

George, J.C. and Talesara.C.L. 1961b. SDH activity in the breast muscles of a few representative types of birds. J.Anim.Morph.Physiol.(In press).

George, J.C., Vallyathan, N.V. and Scaria, K.S. 1958. Lipase activity in the insect flight muscle. Experientia. 14, 250-251.

Glick, D. 1949. Techniques of Histo- and Cytochemistry. Interscience Publishers Inc. New York.

Gomori, G. 1953. Microscopic Histochemistry, Priciples and Practice. Chicago University Presss, Chicago.

Green, D.E. 1954. Fatty acid oxidation in soluble systems of animal tissues. Biol.Rev., 29, 330.

Green, D.E. 1955. Oxidation and synthesis of fatty acids in soluble enzyme systems of animal tissues. Clin. Chem., 1, 53.

Green, D.E. 1960. The synthesis of fat. Scientific American., 202, 46.

Hawk, P.B., Oser, B.L. and Summerson, W.H. 1954. Practical Physiological Chemistry. McGraw-Hill Book Company Inc. New York.

Hoskins, D.D. et al, 1956. Oxidative metabolism in the honey bee flight muscle mitochondria. J.Gen.Physiol., 39, 705.

Hotta. 1954. As cited by Ogata, T., 1960.

Humphrey, G.F. 1949. Invertebrate glycolysis. J.Cell.Comp. Physiol. , 34, 323-325.

Knox. et al, 1948. Studies on the cyclophorase system III. Obligatory sparking of fatty acid oxidation. J Biol Chem. 176-117.

Krogh, A. and Weis-Fogh, T. 1951. Respiratory exchange of desertllocust before, during and after flight. J.Exp.Biol., 28, 344-357.

Kubista, V. 1954. As cited by Boettiger, E.G. 1960.

Kun, E. and Abood, L.G. 1949. Colorimetric estimation of succinic dehydrogenase by triphenyl tetrazolium chloride. Science., 109, 144.

Louloudes, S.J. et al. 1961. Lipogenesis from C^{14} acetate by the American cockroach. Ann.Ent.Soc.Amer. 54, 99-103.

Mankiewiez, E. 1949. Lipases, Galleria (Lepidoptera) larvae. Canadian. Jour.Res.E. 27, 195-201.

Martin, H.F and Peers, F.G. 1953. Oat lipase. Biochem.J. 55, 523.

Nachmias, V.J. and Padykula, H.S. 1958. A histochemical study of normal and denervated red and white muscles of the rat. J.Biophys.Biochem.Cytol. 4, 47.

Nakatsugawa, T. 1960. Spectrophotometric measurement of cytochromes in the red and white muscles of the American cockroach. Nature. Lond., 185, 4706, 85-86.

Needham, J. 1926. Red and white muscle. Physiol.Rev., 6, 1

Odum, E.P. and Connel, C.E. 1956. Lipid levels in migrating birds. Science, 123, 892.

Ogata, T. 1960. The differences in some labile constituents and some enzymatic activities between the red and white muscle. Jour.Biochem. Japan47, 726.

Pearse, E.A.G. 1954. Histochemistry, Theoretical and Applied, J&A. Churchill, London.

Perez-Gonzales, M.D. and Edwards, G.A. 1954. Metabolic differences among several specialized insect muscles. Biol.Fac.Filos.Cienc.S.Paulo. 19, 373-389.

Perry, S.V. and Zydowo, M. 1959. The nature of the extra protein fraction from myofibrils of the striated muscle. Biochem.J., 71, 220.

Pringle, J.W.S. 1957. Insect Flight. Cambridge University Press, Cambridge.

Rockstein, M. 1957. Some aspects of intermediary metabolism of carbohydrates in insects. Ann.Rev.Entomol. 2, 19-36.

Rodrigues, H.T. 1959. Glycogen and phosphorus in skeletal muscle of the lizard, Anoles cristatella. J.Amer. Physiol. 197, 1216-1218.

Roeder, K.D. 1951. Movements of the thorax and potential changes in thoracic muscles of insects during flight. Biol.Bull. Woods Hole. 100, 96-106.

Roeder, K.D. 1953. Insect Physiology. John Wiley & Sons,Inc. New York.

Sacktor, B. 1953a. Investigations on the mitochondria of the housefly, Musca domestica. I. Adenosine triphosphatse. J.Gen.Physiol. 36, 371- 386.

Sacktor, B. 1953b. Investigations on the mitochondria of the housefly, Musca domestica. II. Oxidative enzymes with special reference to malic oxidase.

Sacktor, B. 1954. Investigations on the mitochondria of the housefly, Musca domestica. III. Requirements for oxidative phosphorylation. J.Gen.Physiol. 37, 343-59.

Sacktor, B. 1955. Cell structure and the metabolism of insect flight muscle. J.Biophys.Biochem.Cytol. 1, 1-12.

Sacktor, B. 1958. A biochemical basis of insect flight muscle activity. Fourth International Congress of Biochemistry. 12, 138-52.

Sacktor, B and Bodenstein, D. 1952. Cytochrome c oxidase activity of various tissues of American cockroach. J.Cell. Comp.Physiol. 40, 157-160.

Sacktor, B and Cochran,D. 1956. Heterogenety in the dinitrophenol uncoupling of mitochondrial oxidative phosphorylation. J. Amer. Chem. Soc. 78, 3227.

Sacktor, B and Cochran, D. 1958. The respiratory metabolism of insect flight muscle. I. Manometric studies of oxidation and concomitant phosphorylation with sarcosomes. Arch.Biochem.Biophys., 74, 266.

Sacktor, B., Thomas, G.M., Moser, J.C. and Bloch, D.I. 1953. Dephosphorylation of adenosine triphosphate by tissues of American cockroach, Periplaneta americana (L). Biol.Bull. Woods Hole., 105, 166-173.

Scaria, K.S. 1958. Studies on certain enzymes of the skeletal and cardiac muscles of vertebrates with emphasis on lipase. Doctoral Thesis, M.S.University of Baroda.

Schlottke, E. 1937. Digestive enzymes and diet, carnivorous beetles, grasshoppers, roach. In Roeder, K.D. Insect Physiology. New York.

Schneider, W.C. and Hogeboom, G.H. 1950. Cytochemical studies of mammalian tissues. III. Isocitric dehydrogenase triphosphopyridine nucleotide-cytochrome c reductase of mouse liver. J.Biol.Chem. 186, 417-427.

Schneider, W.C and Hogeboom, G.H. 1956. Biochemistry of Cellular Particles. Ann.Rev. Biochem. 25, 201-224.

Smit, W.A. 1958. Muscle fibres of the fast and slow contracting muscles of the mesothoracic leg of the American cockroach. Nature. Lond., 181, 1073.

Stephin, M. 1957. Insect blood proteins. Physiol.Zool. 30.

Tiegs, O.W. 1955. The flight muscles of insects. Their anatomy and histology with some observations on the structure of striated muscle in general. Phil. Trans. 238, 221-359.

Umbreit, et al. 1957. Manometric Techniques and Tissue Metabolism. Burgress Publishing Co. Minneapolis,Minn.

Von-Siebold, C.T. 1848. In Pringle, J.W.S. Insect Flight. Cambridge University Press, Cambridge.

Watanabe, M.I. and Williams, C.M. 1951. Mitochondria in the flight muscles of insects. I. Chemical composistion and enzymic content. J.Gen.Physiol. 34, 675-89.

Watanabe, M.I. and Williams, C.M. 1953. Mitochondria in the flight muscles of insects. II. Effects of the medium on the size, form and organization of isolated sarcosomes. J.Gen.Physiol. 37, 71-89.

Weinstein and Wynne. 1936. Pancreatic lipase. Jour.Biol.Chem. 112, 641-648.

Weis-Fogh, T. 1952. Fat combustion and metabolic rate of flying desert locusts, (Schistocerca gregaria). Phil.Trans. 237, 1-36.

Wigglesworth, V.B. 1949. The utilization of reserve substances in Drosophila during flight. J.Exp.Biol. 26, 150-163.

Williams, C.B. 1958. Insect Migration. Collins, London.

Williams, C.M. 1945. Notes on the fat content of two British migrant moths. Proc.Roy.Ent.Soc., 30, 6-13.

Wills, E.D. 1955. The effect of surface active agents on pancreatic lipase. Biochem.Biophys.Acta. 60, 529-34.

Wills, E.D. 1960. Relation of metals and -SH groups to the activity of pancreatic lipase. Biochem.Biophys.Acta. 40, 481-490.

Wynter-Blyth. 1957. Butterflies of the Indian Region. Bombay Natural History Museum, Bombay.

Yamafugi, I. and Yonezawa. 1935. Lipase, Silk worm. Jour. Agri.Chem.Soc. Japan., 11, 16-21.

Zebe, E. 1954. On the metabolism of Lepidoptera. Z.Vergl. Physiol. 36, 290-317.

Zebe, E. 1956. the a-glycerophosphate oxidation in insect muscles (Locusta migratoria). Experientia. 12, 68-70.

Zebe, E. 1959. Incorporation of (^{14}C) acetate into long chain fatty acids by the fat body of Phodenia eridania(Lepidoptera). Biochem.Biophys.Acta. 36,290.

Zebe, E. and McShan, W.H. Lactic and glycerophosphate dehydrogenase in insects. J.Gen.Physiol. 40, 779-790.