

BIBLIOGRAPHY

- Ayappa, P. K., Cheema, P. S. and Perti, S. L. 1957. A life-history study of Anthrenus flavipes Lec. (Col., Dermestidae). Bull. Ent. Res., 49: 185
- Babcock, K. L. and Rutschky, C. W. 1961. Lipids in insect eggs: A review with new evidence from the milkweed bug, Oncopeltus fasciatus (Hemiptera, Lygaeidae). Ann. Ent. Soc. Amer., 54: 156
- Babers, F. H. 1941. As cited by Wyatt, G. R. and Kalf, G. F. (1957)
- Back, E. A. and Cotton, R. T. 1936. The Furniture Carpet Beetle (Anthrenus vorax Waterhouse), a pest of increasing importance in the United States. Proc. Ent. Soc. Wash., 38: 189
- Baker, D. F. and Peretsky, D. 1958. Studies on the enzyme lipase in the house fly. Arch. Biochem. Biophys., 77: 328
- Baker, J. R. 1956. Improvements in the Sudan Black technique. Quart. J. micr. Sci., 97: 621
- Baker, J. R. 1960. Principles of Biological Microtechnique. Methuen & Co., London
- Baldwin, E. 1957. Dynamic aspects of Biochemistry. Cambridge University Press, Cambridge
- Barnes, J. H. and Grove, A. J. 1916. The insects attacking stored wheat in the Punjab and the methods of combating them, including a chapter on the chemistry of respiration. Mem. Dep. Agric. India (Chem. Ser.), 4: 165

- Bataillon, E. and Couvreur, E. 1892. As cited by Wyatt and Kalf, (1957)
- Battista, G. W. 1954. Changes in the fat content of the Japanese beetle, Popillia japonica Newman, during metamorphosis. J. N. Y. Ent. Soc., 62: 27
- Becker, M. 1934. Zur Biologie des Mehlwürms: Wäandlungen des Fettes während der Metamorphose. Biochem. Z., 272: 227
- Blake, G. M. 1958. Diapause and the regulation of development in Anthrenus verbasci (L) (Col., Dermestidae). Bull. Ent. Res., 49:751
- Blake, G. M. 1961. Length of life, fecundity and the oviposition cycle in Anthrenus verbasci (L.) (Col., Dermestidae) as affected by adult diet. Bull. ent. Res., 52: 459
- Bloch, K., Langdon, R. G., Clark, A. J. and Fraenkel, G. 1956. Impaired steroid biogenesis in insect larvae. Biochim. Biophys. Acta, 21: 176
- Brockway, A. P. 1956. The effects of x -irradiation on the pupae of the yellow mealworm, Tenebrio molitor Linn. Biol. Bull., 111: 297
- Buck, J. B. 1953. Physical properties and chemical composition of insect blood. in Insect Physiology Ed. Roeder, K. D., John Wiley & Sons. Inc., New York.
- Buck, J. 1962. Some physical aspects of insect respiration. Ann. Rev. Entomol., 7: 27
- Bunsel, R. G. 1937. Étude biochimique des lipides et des substances réductrices chez le Leptinotarsa decemlineata (Say). Compt. Rend. Acad. Sci., 205: 1177

- Burges, H. D. 1957. Studies on the dermestid beetle, Trogoderma granarium Everts: I.- Identification and duration of the developmental stages. The Entomologists' Monthly Magazine, XCIII: 105
- Burges, H. D. 1959_a. Studies on the dermestid beetle, Trogoderma granarium Everts: III.- Ecology in malt stores. Ann. appl. Biol., 47: 445
- Burges, H. D. 1959_b. Studies on the dermestid beetle, Trogoderma granarium Everts: II.- The occurrence of diapause larvae at constant temperature, and their behaviour. Bull. Ent. Res., 50: 407
- Burges, H. D. 1960. Studies on the dermestid beetle, Trogoderma granarium Everts: IV.- Feeding, growth and respiration with particular reference to diapause larvae. J. Ins. Physiol., 5: 317
- Burges, H. D. 1962. Studies on the dermestid beetle, Trogoderma granarium Everts: V.- Reactions of diapause larvae to temperature. Bull. Ent. Res., 53: 193
- Buys, K. S. 1923. Adipose tissue in insects. J. Morph., 38: 485
- Byrne, J. M. 1962. The uptake of dyes by extracted phospholipids and cerebrosides. Quart. J. micr. Sci., 103: 47
- Candy, D. J. and Kilby, B. A. 1961. The biosynthesis of trehalose in the locust fat body. Biochem. J., 78: 531
- Candy, D. J. and Kilby, B. A. 1962. Studies on chitin synthesis in the desert locust, Schistocerca gregaria. J. Exp. Biol. 39: 129

- Chatterji, S. and Sarup, P. 1960. Aminoacid constituents of the adults of the carpet beetle, Anthrenus vorax Waterhouse. Curr. Sci., 29: 479
- Chefurka, W. 1959. Glucose metabolism in insects. In Biochemistry of Insects, Ed. Levenbook, L. Pergamon Press.
- Chou, J. T. Y. 1957. The fixation of adipose fat by potassium dichromate. Quart. J. micr. Sci., 98: 431
- Clayton, R. B. and Bloch, K. 1963. Sterol utilization in the hide beetle, Dermestes vulpinus. J. Biol. Chem. 238: 586
- Clements, A. N. 1959. Studies on the metabolism of the locust fat body. J. exp. Biol., 36: 665
- Cornwell, P. B. and Morris, J. A. 1959. Susceptibility of the grain and rice weevils, Calandra granaria L. and C. oryzae to gamma radiation. Atomic Energy Research Est. Report 3065
- Coupland, R. E. 1957. Observations on the normal histology and histochemistry of the fat body of the desert locust, Schistocerca gregaria. J. exp. Biol., 34: 290
- Cowdry, E. V. 1952. Laboratory Technique in Biology and Medicine., The Williams & Wilkins Co., Baltimore
- Desai, R. M. and Kilby, B. A. 1958. Some aspects of nitrogen metabolism in the fat body of the larva of Calliphora erythrocephala. Arch. int. Physiol. Biochem. 66: 247
- Evans, A. C. 1934. On the chemical changes associated with metamorphosis in the beetle, Tenebrio molitor L. J. exp. Biol., 11: 397
- Florkin, M. 1959. The free aminoacids of insect hemolymph. In Biochemistry of Insects. Ed. Levenbook, L. Pergamon Press.

- Fraenkel, G. and Blewett, M. 1944. The utilisation of metabolic water in insects. Bull. Ent. Res., 35: 127
- Fraenkel, G., Reid, J. A. and Blewett, M. 1941. The sterol requirements of the larva of the beetle, Dermestes vulpinus. Biochem. J., 35: 712
- Fredrickson, D. S. and Gordon, R. S. 1958. Transport of fatty acids. Physiol. Rev., 38: 585
- Frew, J.G.H. 1929. Studies in the metabolism of insect metamorphosis. Brit. J. exper. Biol., 6: 205
- Gay, F. J. 1938. A nutritional study of the larvae of Dermestes vulpinus. J. Exp. Zool., 79: 93
- George, J. C. and Ambadkar, P. M. 1963. Histochemical demonstration of lipids and lipase activity in the rat testis. J. Histochem. Cytochem., 11: 420
- George, J. C. and Bhakthan, N. M. G. 1960_a. A study on the fibre diameter and certain enzyme concentrations in the flight muscles of some butterflies. J. exp. Biol., 37: 308
- George, J. C. and Bhakthan, N. M. G. 1960_b. The fibre diameter and certain enzyme concentrations in the flight muscles of some moths. J. Anim. Morph. Physiol., 7: 141
- George, J. C. and Bhakthan, N. M. G. 1960_c. Lipase activity in the thoracic muscles of the beetle, Helicoverpa bucephalus Fabr. Naturwissenschaften, 24: 602
- George, J. C. and Bhakthan, N. M. G. 1963. In vitro lipase activity and the oxidation of butyrate by the honey bee flight muscle. J. Ins. Physiol., 9: 311

- George, J. C. and Eapen, J. 1959_a. Histochemical demonstration of lipase and alkaline phosphatase activity in the fat body of the desert locust. Nature, 183: 268
- George, J. C. and Eapen, J. 1959_b. Lipase activity in the fat body of the desert locust, Schistocerca gregaria. J. Cell. Comp. Physiol., 54: 293
- George, J. C. and Hegdekar, B. M. 1961. Histochemical demonstration of succinic dehydrogenase in the fat body of the desert locust and some grasshoppers. J. Histochem. Cytochem., 9: 157
- George, J. C. and Iype, P. T. 1959. A study on the lipase activity in the developing chick heart. J. Exp. Zool., 41: 291
- George, J. C. and Iype, P. T. 1962. Lipase activity in the chick liver during development. Proc. Soc. Expt. Biol. Med., 109: 826
- George, J. C. and Iype, P. T. 1963. Lipase activity of pigeon heart muscle particulate fractions and its metabolic significance. Am. J. Physiol., 204: 165
- George, J. C. and Jyothi, D. 1955. The lipid content and its reduction in the muscle and liver during long and sustained muscular activity. J. Anim. Morph. Physiol., 2: 1
- 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
- George, J. C. and Scaria, K. S. 1958. Histochemical demonstration

- of lipase activity in the pectoralis major muscle of pigeon. Nature, 181: 783
- George, J. C., Susheela, A. K. and Scaria, K. S. 1958. A quantitative and histochemical study of lipase activity in the pectoralis major muscle of the bat. Naturwissenschaften, 45: 93
- George, J. C., Vallyathan, N. V. and Scaria, K. S. 1958. Lipase activity in the insect flight muscle. Experientia, 14: 250
- Gilbert, L. I. and Schniederma, H. A. 1961. Some biochemical aspects of insect metamorphosis. American Zoologist, 1: 11
- Gilmour, D. 1961. The Biochemistry of Insects. Academic Press, N. Y.
- Gordon, R. S. 1957. Unesterified fatty acid in human blood plasma
2.- The transport and function of unesterified fatty acid. J. Clin. Invest., 36: 810
- Gordon, R. S. 1958. Production of unesterified fatty acids from isolated adipose tissue incubated in vitro. Proc. Soc. Expt. Biol. Med., 97: 150
- Griswold, G. H. 1941. As cited by Ayappa et al. (1957) and Patel, (1958)
- Grosch, D. S. 1963. Entomological aspects of radiation as related to genetics and physiology. Ann. Rev. Entomol., 4: 81
- Hale, L. J. 1958. Biological Laboratory Data. Methuen & Co., London
- Hegdekar, B. M. 1963. A study on certain biochemical and histophysiological aspects of Orthopteran fat body. Ph.D. Thesis M. S. University, Baroda, India.
- Hines, W. J. W. and Smith, M. J. H. 1963. Some aspects of intermediary metabolism in the desert locust (Schistocerca

- gregaria Forskal). J. Ins. Physiol., 9: 463
- Hinton, H. E. 1945. A monograph of the beetles associated with stored products. Vol. I.- 443 pp. London, Brit. Mus. (Nat.Hist.)
- Hocking, B. 1943. Action against Anthrenus 'wooly bears' and what to do about them. Pest Control Pamphl. Ordn. Lab., (2), Cawnpore.
- Horne, T. and Brownell, L. E. 1962. The use of radiation sources for insect control. Radioisotopes and Radiation in Entomology, International Atomic Energy Agency, Vienna, 233
- Hübscher, G. 1963. The biosynthesis of glycerides in the small intestinal mucosa and other tissues. In Biosynthesis of Lipids, Ed. Popják, G. Pergamon Press.
- Imms, A. D. 1957. A General Text Book of Entomology, Methuen & Co. London
- Ishizaki, H. 1963. Nuclear activation by the metamorphosis hormone in the fat body cell of Philosamia cynthia ricini (Lep.). Exp. Cell Res., 31: 606
- Jeanrenaud, B. 1961. Dynamic aspects of adipose tissue metabolism: A Review. Metabolism, 10: 535
- Jedekin, L. A. and Weinhouse, S. 1954. Studies of the incorporation of Palmitate-1-C¹⁴ into tissue lipids in vitro. Arch. Biochem. Biophys., 50: 134
- Jura, C., Krzysztofowicz, A. and Weglarska, B. 1957. Histochemical investigations on the embryonic development of Melasoma populi L. (Chrysomelidae, Coleoptera) Part First, Zool. Poloniae, 8: 201

- Karlson, P. and Sekeris, C. E. 1964. Biochemistry of Insect metamorphosis. In Comparative Biochemistry, Ed. Florkin, M. and Mason, H. S. Vol. VI : 221
- Kilby, B. A. and Neville, E. 1957. Aminoacid metabolism in locust tissues. J. exp. Biol., 34: 276
- Kugler, J. H. and Wilkinson, W. J. C. 1959. A relation between total glycogen content of ox myocardium and its histochemical demonstration. J. Histochem. Cytochem., 7: 398
- Kugler, J. H. and Wilkinson, W. J. C. 1960. Glycogen fractions and their role in the histochemical detection of glycogen. J. Histochem. Cytochem., 8: 195
- Kurnick, N. B. 1955. The histochemistry of nucleic acids. Int. Rev. Cytol., 4: 221
- Lachance, L. E. and Bruns, S. B. 1963. Oogenesis and radiosensitivity in Cochliomyia hominivorax (Diptera, Calliphoridae). Biol. Bull., 124: 65
- Levenbook, L. and Hollis, V. W. 1961. Organic acids in insects: I.- Citric acid. J. Ins. Physiol., 6: 52
- Levitsen, L. H. and Silverman, P. H. 1954. Studies on the lipids of Musca vicina during growth and metamorphosis. Biochem. J., 58: 294
- L'Helias, C. 1953. As cited by Chefurka, W. (1959)
- Lower, H. F. 1955. A trichrome stain for insect material. Stain Technology, 30: 209
- Ludwig, D. 1931. Studies on the metamorphosis of the Japanese beetle (Popillia japonica Newman)- I. Weight and metabolism changes. J. Exp. Zool., 60: 309

- Ludwig, D. and Rothstein, F. 1949. Changes in the carbohydrate and fat content of the Japanese beetle (Popillia japonica) during metamorphosis. Biochem. J., 58: 294
- Martin, H. F. and Peers, F. G. 1953. Oat lipase. Biochem. J., 55: 523
- Meyer, H., Preiss, B. and Bauer, S. 1960. The oxidation of fatty acids by a particulate fraction from desert locust thorax tissues. Biochem. J., 76: 27
- Möbusz, A. 1897. Ueber den Darmkanal der Anthrenus larve nebst Bemerkungen zur Epithelregeneration. Arch. Naturgeschichte, 63: 89
- Naik, S. and Naik, R. M. 1963. Studies on the house swift, Apus affinis (G. E. Grey) 2. Quantitative assessment of the regional distribution of mucus used in the nest. Pavo, 1: 99
- Nair, K. K. 1962. Preliminary studies on the effect of gamma radiation on house fly pupae with special reference to the mechanism of emergence. Radioisotopes and Radiation in Entomology, International Atomic Energy Agency, Vienna, 207
- Nair, K. K. and Rahalkar, G. W. 1963. Studies on the effects of gamma radiation on the different developmental stages of the Khapra beetle, Trogoderma granarium Everts. Radiation and Radioisotopes applied to Insects of Agricultural Importance, Int. Atomic Energy Agency, Vienna, 465

- Nayar, K. K. 1954. The structure of the corpus cardiacum of Locusta migratoria. Quart. J. micr. Sci., 95: 245
- Nicholas, R. C. and Wiant, D. E. 1959. Radiation of important grain infesting pests: Order of death curves, and survival values for the various metamorphic forms. Food Technology, XIII: 58
- Pant, N. C. 1953. Nutritional requirements of Trogoderma granarium. Current Sci., 22: 379
- Pant, N. C. 1956. Nutritional studies on Trogoderma granarium E.- Basic food and vitamin requirements. Indian J. Ent., 18:259
- Pant, N. C., Nayar, J. K. and Gupta, P. 1958. On the significance of aminoacids in the larval development of Khapra beetle, Trogoderma granarium E. Experientia, 14: 176
- Pant, N. C. and Pant, J. C. 1960. Nutritional studies on Trogoderma granarium E.- Further studies on vitamin requirements of larvae grown on different casein samples. Indian J. Ent., 22: 115
- Pant, N. C. and Pant, J. C. 1961. Nutritional studies on Trogoderma granarium E.- Studies on the lipid requirements. Indian J. Ent., 13: 10
- Patel, H. K. 1958. The Furniture Carpet Beetle (Anthrenus vorax Waterhouse). Memoirs of the Ent. Soc. India No. 6, 47 pp.
- Pearincott, J. V. 1960. Changes in the lipid content during growth and metamorphosis of the house fly, Musca domestica Linnaeus. J. Cell. Comp. Physiol., 55: 167
- Pearse, A. G. E. 1960. Histochemistry, Theoretical and Applied. J. & A. Churchill, London

- Perez, C. 1920. As cited by Wigglesworth, V. B. (1942)
- Ross, M. H. and Cochran, D. G. 1963. Some early effects of ionizing radiation on the German Cockroach, Blattella germanica. Ann. Ent. Soc. Amer., 56: 256
- Rothstein, F. 1952. Biochemical changes during embryonic development of the Japanese beetle (Popillia japonica Newman) Physiol. Zool., 25: 171
- Russo-Caia, S. and Cecere, F. 1960. Carbohydrates and lipids in the metamorphosis of Musca domestica L. Ric. Sci., 30: 1577
- Schnelle, H. 1923. As cited by Wigglesworth, V. B. (1942)
- Schnieder, R. G. 1928. As cited by Wigglesworth, V. B. (1942)
- Shniederman, H. A. and Williams, C. M. 1955. An experimental analysis of the discontinuous respiration of the Cecropia silk worm. Biol. Bull., 109: 123
- Seifter, S., Dayton, S., Novic, B. and Muntwyler, E. 1950. The estimation of glycogen with the anthrone reagent. Arch. Biochem., 25: 191
- Sinoda, O. and Kurata, M. 1932. Nutritional study on dermestid beetles: The chemical composition, and especially the nature of the ether extract of beetles. J. Biochem. (Tokyo) 16: 129
- Sohi, G. S. 1951. Biology of the Woolly Bear, Anthrenus vorax, Waterhouse. Proc. nat. Acad. Sci. India (B), 21: 99
- Tietz, A. 1961. Fat synthesis in cell free preparations of the locust fat body. J. Lipid. Res., 2: 182

- Tietz, A. 1962. Fat transport in the locust. J. Lipid. Res., 3: 421
- Tietz, A. and Shapiro, B. 1956. The synthesis of glycerides in liver homogenates. Biochim. Biophys. Acta, 19: 374
- Timon-David, J. 1930. Contribution à l'étude de la biochimie entomologique. Huilles et graisses d'insectes. Bull. Soc. Chim. Biol., 12: 395
- Umbreit, W. W., Burris, R. H. and Stauffer, J. F. 1957. Manometric Techniques. Burgess Publishing Co., Minneapolis
- Vallyathan, N. V. 1963. Studies on certain metabolic adaptations in the avian pectoralis and blood. Ph.D. Thesis. M. S. University of Baroda, India.
- Vardanis, A. 1963. Glycogen synthesis in the insect fat body. Biochim. Biophys. Acta, 73: 565
- Voinov, V. 1927. As cited by Wigglesworth, V. B. (1942)
- Wigglesworth, V. B. 1942. The storage of protein, fat, glycogen and uric acid in the fat body and other tissues of mosquito larvae. J. exp. Biol., 19: 56
- Wigglesworth, V. B. 1950. The Principles of Insect Physiology. Methuen & Co., London
- Wigglesworth, V. B. 1954. The Physiology of Insect Metamorphosis. Cambridge Univ. Press, Cambridge
- Wigglesworth, V. B. 1958. The distribution of esterase in the nervous system and other tissues of the insect Rhodnius prolixus. Quart. J. micr. Sci., 99: 441

- Wigglesworth, V. B. 1963. The action of moulting hormone and juvenile hormone at the cellular level in Rhodnius prolixus. J. Exp. Biol., 40: 231
- Wilson, J. G. 1954. Differentiation and the reaction of the rat embryos to radiation. J. Cell. Comp. Physiol., 43: Suppl. 1, 11
- Wyatt, G. R. and Kalf, G. F. 1957. The chemistry of insect haemolymph II.- Trehalose and other carbohydrates. J. Gen. Physiol., 40: 833
- Wyatt, G. R., Kropf, R. B. and Carey, F. G. 1963. The chemistry of insect haemolymph IV.- Acid-soluble phosphates. J. Ins. Physiol., 9: 137
- Zakolska, Z. 1928. As cited by Wigglesworth, V.B. (1942)
- Zebe, E. C. and McShan, W. H. 1959. Incorporation of ¹⁴-C acetate into long chain fatty acids by the fat body of Prodenia eridania (Lep.). Biochim. Biophys. Acta, 31: 513
- Zeller, 1938. As cited by Wigglesworth, V. B. (1942)