

REFERENCES

- Adam, A.R.D. and Maegraith, B.G. 1953. Clinical Tropical Disease, 5th ed., Blackwell, Oxford, pp. 235-277.
- Areekul, S. 1973. Rigidity of red cell during malarial infection. J. Med. Ass. Thailand, 56: 163.
- Areekul, S. and Chantachum, Y. 1973. Measurement of the red cell ATP levels in Thai blood donors using the luciferase enzyme and the liquid scintillation counter. Southeast Asian J. Trop. Med. Pub. Hlth., 4: 440.
- Areekul, S. and Thajongrak, K. 1974. ATP content in erythrocytes of Plasmodium knowlesi-infected monkeys. (Letter to Editor). J. Med. Ass. Thailand, 57: 631.
- Areekul, S., Thajongrak, K., Kasemsuth, R. and Matrakul, D. 1974. Erythrocyte ATP levels in mice infected with Plasmodium berghei malaria. Southeast Asian J. Trop. Med. Pub. Hlth., 5: 492.
- Ball, E.G., McKee, R.W., Anfinsen, C.B., Cruz, W.O. and Geiman, Q.M. 1948. Studies on malarial parasites. IX. Chemical and metabolic changes during growth and multiplication in vivo and in vitro. J. Biol. Chem., 175: 547.

- Bartlett, G.R. 1959. Human red cell glycolytic intermediates. J. Biol. Chem., pp 234-449.
- Beutler, E. and Baluda, M.E. 1964. Simplified determination of blood adenosine triphosphate using the firefly system. Blood, 23: 688.
- Beutler, E. and Mathai, C.K. 1967. A comparison of normal red cell ATP levels as measured by the firefly system and the hexokinase system. Blood, 30: 311.
- Brewer, G.J. 1964. A new inherited metabolic abnormality of human erythrocytes characterized by elevated levels of adenosine triphosphate. J. Clin. Invest., 43: 1288.
- Brewer, G.J. 1965. Genetic and population studies of human erythrocyte adenosine triphosphate. J. Lab. Clin. Med., 66: 858. (abst.).
- Brewer, G.J. 1967a. Genetic and population studies of quantitative levels of adenosine triphosphate in human erythrocytes. Biochem. Genet., 1: 25.
- Brewer, G.J. 1967b. Metabolism of ATP in thalassemic and iron--deficient erythrocytes. J. Lab. Clin. Med., 70: 1016 (Abst.)
- Brewer, G.J. 1969. Adenosine triphosphate in "Biochemical Methods in Red Cell Genetics". Academic press, N.Y., p. 201.

Brewer, G.J. and Coan, C.C. 1969. Interaction of red cell ATP levels and malaria, and the treatment of malaria with hyperoxia. Milit. Med., 134: 1056.

Brewer, G.J. and Powell, R.D. 1964. Studies of erythrocytes with "Elevated erythrocytic ATP", a new genetically determined abnormality. J. Lab. Clin. Med., 64: 844 (Abst.).

Brewer, G.J. and Powell, R.D. 1965. A study of the relationship between the content of adenosine triphosphate in human red cells and the course of falciparum malaria: A new system that may confer protection against malaria. Proc. Natn. Acad. Sci., 54: 741.

Brewer, G.J. and Powell, R.D. 1966. The adenosine triphosphate content of G-6-PD deficient and normal erythrocytes, including studies of a G-6-PD deficient man with "elevated erythrocytic ATP". J. Lab. Clin. Med., 67: 726.

De Luca, G., Stevenson, J.H. Jr. and Kaplan, E. 1962. Simultaneous multiplecolumn chromatography: Its application to the separation of the adenine nucleotides of human erythrocytes. Anal. Biochem., 4: 39.

Dudgeon, L.S. and Clarke, C.A. 1917. A contribution to the microscopic histology of malaria as occurring in the Solanica Force in 1916, and a comparison of these finding with certain clinical phenomena.
Lancet, 2: 153.

Dunn, M.J. 1969. Alterations of red blood cell sodium. Transport during malarial infection. J. Clin. Invest., 48: 674.

Eaton, J.W. and Brewer, G.J. 1969. Red cell ATP and malaria infection. Nature, 222: 389.

Fletcher, K.A., Fielding, C.M. and Maegraith, B.G. 1970. Studies on the role of adenosine phosphates in erythrocytes of Plasmodium knowlesi-infected monkeys. Ann. Trop. Med. Parasit., 64: 487.

Gerlach, E., Fleckenstein, A. and Gross, E. 1958. Der intermediare phosphatstoffwechsel des menschen-erythrocyten. Pfleuge. Arch. Ges. Physiol., 266: 528.

Greenwalt, T.J. and Ayers, V.E. 1960. Phosphate partition in the erythrocytes of normal newborn infants and infants with erythroblastosis fetalis. II. Quantitative paper chromatography. Blood, 15: 698.

Gross, R., Schroeder, E.A.R. and Brounstein, S.A. 1963.

Energy metabolism in the erythrocytes of premature infants compared to full term newborn infants and adults. Blood, 31: 755.

Haradin, A.E., Weed, R.I. and Reed, C.F. 1967. Changes in physical properties of stored erythrocytes, relation to in vivo survival. Blood, 30: 876 (Abst.).

Haradin, A.E., Weed, R.I. and Reed, C.F. 1969. Changes in physical properties of stored erythrocytes. Relationship to survival in vivo. Transfusion, 9: 229.

Hepler, O.E. 1973. Manual of Clinical Laboratory Methods, 4th ed., Charles C. Thomas, Illinois, U.S.A., pp. 48, 69 and 356.

Herman, R.H. and Herman, Y.F. 1968. Comparative aspects of the erythrocyte pentose phosphate pathway and its relationship to malarial infectivity. 8th Int. Cong. Trop. Med. Mal. (Abst.), Teheran, p. 1338.

Hoffman, J.F. 1962. The active transport of sodium by ghosts of human red blood cells. J. Gen. Physiol., 45: 837.

- La Celle, P.L. 1969. Alteration of deformability of erythrocyte membrane in stored blood. Transfusion, 9: 238.
- Lehninger, A.L. 1970. Biochemistry, 6th ed., Worth Publishers, Inc., N.Y., pp 89-90, 276-277.
- Lyman, G.E. and DeVincenzo, J.P. 1967. Determination of picogram amounts of ATP using the luciferin-luciferase enzyme system. Anal. Biochem., 21: 435.
- Mandel, P., Chambon, P., Karon, H., Kulic, I. and Serter, M. 1962. Nucleotides libres des globules rouges et des réticulocytes. Folia Haemat., 78: 525.
- Minikami, S., Suzuki, C., Saito, T. and Yoshikawa, H. 1965. Studies on erythrocyte glycolysis I. Determination of the glycolytic intermediates in human erythrocytes. J. Biochem., 58: 543.
- Nagarajan, K. 1968. Metabolism of Plasmodium berghei. II. Pi incorporation into high energy phosphates. Exp. Parasit., 22: 27.
- Nakao, M., Nakao, T., Yamazoe, S. and Yoshikawa, H. 1961. Adenosine triphosphate and shape of erythrocytes. J. Biochem., 49: 487.

- Nakao, T., Tantibana, M., Yoshikawa, H. and Abe, T. 1959. Effect of inosine and adenine triphosphate regeneration and shape transformation in long-stored erythrocytes. Biochem. Biophys. Acta., 32: 564.
- Palek, J., Curby, W.A. and Lionetti, F.J. 1972. Size dependence of ghosts from stored erythrocytes on calcium and adenosine triphosphate. Blood, 40: 261.
- Spitz, S. 1946. The pathology of acute Falciparum Malaria. Military Surg., 99: 555.
- Stanley, P.E. and Williams, S.G. 1969. Use of the liquid scintillation spectrometer for determining adenosine triphosphate by the luciferase enzyme. Anal. Biochem. 29: 381.
- Trager, W. 1950. Studies on the extracellular cultivations of an intracellular parasite (avian malaria). I. Development of the organism in erythrocyte extracts, and the favoring effect of adenosine triphosphate. J. Exp. Med., 29: 349.
- Trager, W. 1963. The biochemistry of intracellular parasitism. 7th Int. Cong. Trop. Med. Malar., p. 467 (Abst.).

Trager, W. 1967. Adenosine triphosphate and the pyruvic and phosphoglyceric kinases of the malaria parasite, Plasmodium lophurae. J. Protozool., 14: 110.

Weed, R.I. 1970. The importance of erythrocyte deformability. Amer. J. Med., 49: 147.

Weed, R.I., LaCelle, P.L. and Merrill, E.W. 1969. Metabolic dependence of red cell deformability. J. Clin. Invest., 48: 795.

Williamson, J. and Cover, B. 1966. Separation of blood-cell-free trypanosomes and malarial parasites on a sucrose gradient. (Lab. Meeting). Trans. Roy. Soc. Trop. Med. Hyg., 60: 425.

VITA

Name: Mrs. Aree Sookprasert

Education: Bachelor of Science in Pharmacy
(Second Class Honor) in 1961, University
of Medical Sciences, Bangkok, Thailand.

Position and Site of the Employer's Office:

Lecturer and Instructor on Pharmacology
and Toxicology, Department of Pharmacology,
Faculty of Pharmaceutical Sciences,
Chulalongkorn University, Bangkok,
Thailand.