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Responsible Investigator: Sidney Roberts  
University Department: Physiological Chemistry  
Financial Support 1954-55: UC \$ 6,000.00; PHS \$15,000.00.

Title of Project: Endocrine and Dietary Regulation of  
 Tumor Metabolism.

These investigations are concerned with the regulatory  
 influence of dietary and endocrine treatment on the metabolism  
 of normal and malignant lymphoid and hepatic tissue.

A. Lymphoid tumors in the rat have been found to  
 release characteristic proteins to the blood stream. This  
 process was enhanced by stimulation of the adrenal cortex,  
 coincident with an inhibition of tumor growth. The results  
 obtained suggest a marked dependence of lymphosarcoma  
 tissue on plasma proteins for growth. Adrenal cortical  
 hormones appear to magnify this dependence, which may be  
 responsible for tumor regression noted after their  
 administration.

B. In an extension of earlier studies, metabolic  
 function in normal and malignant liver tissue has been  
 shown to be influenced by the carbohydrate and fat content  
 of the preceding diet. These changes appear to be due to  
 alterations in enzyme activity in these tissues.

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Roberts

Publications:

Roberts, Sidney. The Influence of the Adrenal Cortex on Serum Protein Metabolism in Normal and Malignant Lymphoid Tissue. *Cancer Res.*, 14:582-87, September 1954.

Slusher, Margaret A., Roberts, Sidney. Fractionation of Hypothalamic Tissues for Pituitary-Stimulating Activity. *Endocrinology* 55:245-254, September 1954.

Levey, Harold A., and Roberts, Sidney. Incorporation of Phenylalanine-3-C<sup>14</sup> into Anterior Pituitary Proteins of the Rat. *Fed. Proc.* 13: -, March 1954.

Whitney, John E., and Roberts, Sidney. Influence of Previous Diet on the Synthesis of Glycogen, Fatty Acids, and Cholesterol by Rat Liver in vitro. *Fed. Proc.* 13: -, March 1954.

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