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Responsible Investigators: Wendell H. Griffith & Robert
A. Bonar

University Department: Physiological Chemistry

Financial Support 1954-55: USPHS \$ 4,900.00.

Title of Project: Studies on the Ribonucleoproteins of
Yeast.

This study is concerned with the physicochemical properties of ribonucleoproteins and ribonucleic acid in the yeast cell, and their distribution in the subcellular particles which may be isolated from crushed cells by differential centrifugation. The information which may be derived from studies of this sort is important in understanding the metabolic role of these compounds and their possible relation to protein synthesis and cell growth. The yeast cell is rich in ribonucleic acid and much of this is bound to subcellular particles. Yeast is readily available in quantity and may be grown under various special conditions if necessary.

Some progress has been made in determining optimum conditions for the isolation of subcellular particles. Water and sucrose solution have been found to be satisfactory suspending media for the broken cell preparations during centrifugation, while dilute saline leads to disintegration of the nucleic acid. The effects of

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