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## **INTRODUCTION:**

The following report summarizes the effort expended during the first year of grant funding. A considerable portion of the initial funding period was used to hire personnel, and functionally implement the protocols and equipment to be used throughout the study period.

## **BODY:**

During the initial several months Mr. Joseph Jurkowski was hired as the chief technician on the project. Subsequently, the appropriate dietary materials were ordered and quality control measures established for the preparation of the diets. Subsequently, two experiments were carried out using four individual diets: 20% Corn Oil, 5% Corn Oil, 19% Fish Oil + 1% Corn Oil, and 4% Fish Oil + 1% Corn Oil. In the first study F-344 female rats were placed on their respective diets and then transplanted with the R3230AC mammary tumor. When the tumors reached appropriate size the animals were killed and their tumors, livers, and sera collected and stored at -85 deg. C. Subsequently, in a second experiment NMU was intravenously infused into 50 day old F-344 female rats who were then placed into groups receiving the above described diets. The rats were killed after 24 weeks and their tissues collected as previously. Currently, these tissues are now being biochemically analyzed and additional rats are being prepared for future study.

## **CONCLUSION:**

During the first year of this grant we have established the required personnel, equipment, and methodology. Initial studies have been carried out, and the tissues obtained from these experiments are currently undergoing analysis.