BUDGET JUSTIFICATION

**A. SENIOR/KEY PERSONNEL**

Jane Doe, Ph.D., Principal Investigator (effort = 2.5 calendar months). Dr. Doe is an Associate Professor in the Department of XYZ at University ABC. The Pl has been working in the field of XXX and the pathology of organelle dysfunction for more than 20 years. Her research focuses on the role of XXX response in cancer. The PI will be in charge of this project in terms of planning experiments, teaching and supervising personnel, and coordinating research efforts. The PI will also be responsible for preparing monthly and quarterly reports as well as manuscripts.Support is requested to commensurate with effort at an average rate of $X,XXX per person-month.

Chile Haynes, Ph.D., Co-Investigator (effort = 0.8 Academic Months, 1.0 Summer Months). Dr. Haynes will be responsible for the collection and microbiome analyses of mouse and rat lower intestines. She will also assist in manuscript preparation. Support is requested for the effort at an average rate of $X,XXX per person-month.

**B. OTHER PERSONNEL**

TBA Post Doctoral Associate (effort = 12 Calendar Months effort). A postdoctoral fellow with experience in cell culturing and general molecular biology will be hired. We will also look for a person with prior animal (e.g. mice and rat) experience. Support is requested for the effort at an average rate of $X,XXX per person-month.

TBA Research Assistant (effort = 12 Calendar Months). This individual will assist with recruitment, ordering supplies and intervention materials, assessments, collection of dietary data, daily management of study data, and scoring and data entry of assessments. It is anticipated that this individual would start with 2-years of previous experience.

### C. EQUIPMENT

Funds are requested to purchase a BioscreenC ($7,150 each). The ***Bioscreen C*** Automated Microbiology Growth Curve Analysis System directly measures microorganism growth. As microorganisms grow, they increase the turbidity of their growth medium. By measuring the turbidity of this medium over time, an optical density (O.D.) curve can be generated. Recorded data is directly stored on to a connected PC, the PC is connected through a serial port. The affiliated Downloading and Plotting Software ($1,100 under supplies) which operates on the PC supervises the downloading of data to the PC and ensures data is recorded according to the needs specified by the researchers. From this program, the data can be converted into separate data files.

### D. TRAVEL - $1000 in Year 01 is requested for travel to professional conferences (e.g., CDC, SRA) to present findings associated with the investigation.

**E. PARTICIPANT /TRAINEE SUPPORT COSTS**

None

**F. OTHER DIRECT COSTS**

F.1 Materials and Supplies

General research supplies - Research supplies are calculated at approximately $30,000 per year, and include blank DVD's for data storage as well as all testing materials.

F. 3. Consultants

In Years 1 and 2, Dr, Spanky Lehmann from Texas A&M University will train 3 research assistants to administer the XXX. He will periodically review interview transcripts to ensure adherence to the interview protocol over time. He will provide support for this project at a rate of $400 per day for 5 days during the Years 1 and 2

F.5. Subawards/Consortium/Contractual Costs

A subcontract will be established with the University of Texas, a domestic State institution of higher education. Their Mass Spectrometry Center will handle all of our mass spectrometry needs related to XXX and XXX.

The estimated total costs per year for the 5-year project are as follows:

Year 01 $75.000

Year 02 $39,431

Year 03 $40,311

Year 04 $46,221

Year 05 $75,793

TOTAL $276,756