**Budget Justification**

1. **SENIOR/KEY PERSONNEL**

**Senior/Key Person:**

**Name, Ph.D., PI/PD**

0.00 summer months is each year.

The PI is responsible for ensuring proper conduct of the project at JMU. He will be responsible for all budget and reporting issues. He will coordinate budget and research activities with the Office of Sponsored Programs at JMU to ensure compliance with all regulations pertaining to this sponsored research. He will also be the primary liaison between JMU and the collaborator on all budget and research matters. The PI will be the direct supervisor of all Key/Senior personnel working on this project. He will direct the research being conducted in the laboratories and is responsible for maintaining a focused research effort to achieve the stated goals and objectives of the project. He will analyze experimental data, summarize results, make formal presentations and publish results if appropriate.

**Senior/Key Person:**

**Name, Ph.D., Co-Investigator**

0.00 summer months is each year.

The Co-Investigatorwill be responsible for the design and creation of DNA constructs in support of specific aims (i) and (ii). He will train and supervise one or more undergraduate students to assist him in executing these experiments. He will communicate regularly with the PI/PD to provide research updates, analyze data, and plan future work in order to meet the goals and objectives of this project.

**B. OTHER PERSONNEL**

**Lab Technician (TBD)**

Funds are requested each year for 12 calendar months effort. The lab technician will provide support in the production, design, and execution of the project. The lab technician is expected keep a laboratory notebook and participate in the analysis and reporting of results.

**Graduate Student:**

Funds are requested for one graduate student for 3 summer months. The graduate student assistant will be assigned to this project to support the efforts of the PI and day – to-day operations of the project.

**Undergraduate Students**

Funds are requested each year for 9 academic months effort. Students will be assigned to key/senior personnel trained in the appropriate laboratory techniques to support research in this proposal. They are expected to execute experiments, keep laboratory notebooks, and participate in the analysis and reporting of their results.

**FRINGE BENEFITS**

FICA at 7.65% of all salaries and wages is requested for fringe benefits

**C. EQUIPMENT**

No items with an acquisition cost of $5,000 or greater per unit will be purchased on this project.

**D. TRAVEL**

**Domestic Travel Costs**

Support for each year is requested for one key/Senior Personnel for domestic travel to conferences. Inclusive of registration, lodging, airfare, per diem, mileage.

**E. PARTICIPANT/TRAINEE SUPPORT COSTS**

Not applicable.

**F. OTHER DIRECT COSTS**

**Materials and Supplies**

Materials and supplies are requested for each year. Supplies include “Provide list.”

**Printing and Publication**

Funds are requested for making copies and for fees incurred for publishing research manuscripts.

**G. Total Direct Costs:**

$75,000 in each of the three years is requested. Total project direct costs are $225,000 over five years.

**H. Indirect Costs, Facilities & Administrative**

James Madison University’s federal negotiated indirect cost rate agreement is with the Department of Health and Human Services (DHHS) and is predetermined based on 47% of Modified Total Direct Costs, which excludes equipment, capital expenditures, charges for patient care, student tuition remission, rental costs of off-site facilities, scholarships, fellowships, and the portion of each sub recipient in excess of $25,000.

**I. Total Costs**

$ each year. Total costs are $ over three years.