**Budget Justification**

**A. Senior/Key Personnel**:

Principal Investigator, Dr. Andrew Read will devote approximately 1.0 FTE per year towards this project. He will be responsible for overseeing the project, coordinating with his mentor and supervising the undergraduate student. A total of $111,000 is budgeted for Dr. Read over the 2-year project period.

**B. Other Personnel:**

Undergraduate Student (To Be Named): Funds are requested to hire one undergraduate student from the Springer Lab who will assist in development of an automated plant phenotyping for *Setaria*. Additionally, the undergraduate student will perform plant inoculations and learn basic molecular biology techniques under the mentorship of the PI. The undergraduate student will be paid $13/hour for approximately 120 hours in each year.

**Total Salaries & Wages:** $114,000

**Fringe Benefits/Employee Related Expenses (ERE).** The rates used in the proposal budget are based on those in the current Federally-negotiated Rate Agreement. A total of $28,194 is budgeted for fringe benefits/ERE.

**Total Personnel & Fringe Benefits: $142,194**

**C. Equipment:** N/A

**D. Travel Costs: $4,000**

Domestic Travel ($4,000): Funding in the amount of $4,000 is requested for domestic travel expenses over the duration of the project. The PI/PD will attend a Project Director (PD) meeting, as required by the fellowship (estimated at $1,000 in Year 1 only). He will attend two domestic meetings (estimated at $1,250/year) such as the Annual American Phytopathological Society’s Plant Health meeting or Plant and Animal Genome. $500 has been budgeted for the additional costs of attending a workshop at one of these meetings. Domestic travel costs will cover airfare, per diem, hotel, and local transportation costs.

**E. Participant Support Costs:** N/A

**F. Other Direct Costs: A total of $13,000 is budgeted for Other Direct Costs. A breakdown of each category is provided below.**

**Materials & Supplies:** A total of $4,000 ($2,500 in Year 1 and $1,500 in Year 2) is budgeted for materials & supplies over the 2-year project period. These funds will be applied to purchasing supplies for research in the Springer Lab including: PCR and cloning reagents, pipette tips, microcentrifuge tubes, and nucleic acid extraction kits.

**Other: A total of $13,500 over the 2-year project period is budgeted for Other Costs.**

**(Lab services)** – funds in the amount of $7,000 ($5,000 in Year 1 and $2,000 in Year 2) are budgeted for DNA and RNA sequencing costs. This includes library preperation and sequencing costs for bisulfite and RNA sequencing in Year 1 and additional RNA sequencing in Year 2.

**(Institutional allowance)** – per the sponsor guidelines, institutional allowance (in lieu of indirect costs) are budgeted for a total of $6,000 over the 2-year project period ($3,000 per year).

**G. Total Direct Costs:** $164,694

**H. Indirect Costs:** $0

Indirect costs are not permitted on Postdoctoral Fellowship Grant awards.

**I. Total Direct and Indirect Costs:** $164,694

**J. Fee:** N/A

**K. Total Costs and Fee: $164,694**