



IDAHO STATE BOARD OF EDUCATION

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February 15, 2011

Dr. Ken Cain
University of Idaho
P.O. Box 441136
Moscow, ID 83844-1136

FUNDING AUTHORIZATION

Dear Dr. Cain:

The University of Idaho, Department of Fish and Wildlife is authorized to expend up to \$33,848 toward expenses of the project entitled "Commercializing Specific Probiotic Bacterial Strains as Direct Fed Microbials (DFMs) to Improve Fish Health and Reduce Disease Related Morality at Aquaculture Facilities". The following information applies to these funds.

Amount of Grant: \$33,848
Project Title: Commercializing Specific Probiotic Bacterial Strains as Direct Fed Microbials (DFMs) to Improve Fish Health and Reduce Disease Related Morality at Aquaculture Facilities
Grant Number: IF11-016
Authorized Uses for the Funds: Project expenditures as outlined in the budget of the approved proposal
Fiscal Period in which funds will be expended: March 1, 2011 - June 30, 2012
Distribution of Funds: All funds for this grant will be distributed in one lump sum in FY2011. The Institution is responsible for accounting for the funds and insuring that the money is spent on the project according to the grant guidelines. Gene Merrell and Polly Knutson
Institutional Contact: June 1, 2011
Progress (Financial Burn Rate) Report Due to OSBE: September 1, 2011
December 1, 2011
March 1, 2012
Final (End-of-Project) Report Due to OSBE: June 15, 2011

The grants and contracts officer or the designated research officer at your institution is responsible for monitoring and assisting with the administrative management of the projects and ensuring that progress and final reports are submitted by the due dates given. Any request concerning this project must be submitted via email to Patty Sanchez.

The State Board of Education and this office forward their congratulations and wish grantees the best with their projects. If you have any questions, please contact Patty Sanchez at (208) 332-1562 or patty.sanchez@osbe.idaho.gov.

Sincerely,

Handwritten signature of Mike Rush

Mike Rush
Executive Director

cc: Doug Baker, Provost
Lloyd Mues, Financial VP

Idaho Incubation Fund Program

Quarterly Progress Report Form

Proposal No. IF11-016
Name: Kenneth Cain
Name of Institution: University of Idaho
Project Title: COMMERCIALIZING SPECIFIC PROBIOTIC BACTERIAL STRAINS AS DIRECT FED MICROBIALS (DFMs) TO IMPROVE FISH HEALTH AND REDUCE DISEASE RELATED MORTALITY AT AQUACULTURE FACILITIES

Information to be reported in your progress report is as follows:

1. Provide a summary of project goals/milestones for the period just completed, accomplishments for the period just completed, and plans and goals for the coming quarter:

During this short one month period we coordinated priorities for personnel and services needed to produce and scale up probiotics. The current graduate student (David Burbank) who was involved in the early development of these probiotics defended his MS thesis in June. Two manuscripts were submitted to scientific journals. Goals for the coming quarter involve identifying and contracting scale up for probiotic production to address objectives 1 and 2. A student or technician will be brought on to complete laboratory trials and assist with additional field trials.

2. Provide a summary of budget expenditures for the period just completed:

During this short period budget expenditures included analytical services and salary for a graduate student. Some travel to present work at meetings was also expensed.

3. List patents, copyrights, plant variety protection certificates received or pending:

4. List invention disclosures, patent, copyright and PVP applications filed, technology licenses/options signed, start-up businesses created, and industry involvement:

Invention disclosure filed for C6-6 and C6-8

Provisional Patent application filed on April 7th, 2011 and titled: "Probiotic Bacterial Strains and Method of Use to Decrease Mortality in Fish Due to Coldwater Disease"

4. Include funding burn rate:

\$3,060 was expended during May and June 2011

5. Any other pertinent information:

Elevator pitch presented to the company Aquatic Life Sciences to generate interest in partnering on this work. David Burbank presented this work at the Eastern Fish Health Workshop in April and won best student presentation.