1. Requested Equipment

Liquid Scintillation Counter Beckman Coulter LS 6000 for Department of Fisheries and Wildlife

Principal Investigator: Carl B. Schreck
Title and Department: Leader and Professor Oregon Cooperative Fisheries and Wildlife Research Unit
Department of Fisheries and Wildlife

Co-Investigators:
David Noakes
Professor
Department of Fisheries and Wildlife

Scott Heppell
Assistant Professor
Department of Fisheries and Wildlife

Michael Kent
Professor
Department of Microbiology

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Vice President for Research

2. Budget (invoice attached)

Total amount requested: $25,000. Oregon State University general funds were utilized for replacement of Beckman Coulter LS 5000 Liquid Scintillation Counter damaged during a brown-out incident in 2009. A Beckman Coulter LS 6000 was purchased for the amount of $29,995 in June 2009, of this total $25,000 was awarded from reserve funds.

3. Scholarly Work Activities Made Possible:

The LSC is necessary for steroid hormone quantification, an essential assay in our laboratory. Many students and faculty researchers all participate on projects requiring the measurements of these hormones.

4. Additional Scholarly Activities:

Many opportunities for collaboration were made possible by the analytical capacities of this instrument with state and federal agencies such as Oregon Department of Fish and Wildlife and the Army Corps of Engineers. In addition, we have contracted with other Universities and researchers to analyze their samples. These funds, in turn support maintenance of our laboratory equipment and purchasing supplies.

5. Funded Research Proposals Applicable to Research Equipment Reserve Fund

- Barotrauma stress and recovery in Sebastes spp.
  - PI's: Carl Schreck and Michael Kent

RERF 2008-09 Spring
• Maturation and migration characteristics of Pacific lamprey  
  o PI: Carl Schreck

• Monitoring upstream migration and potential causes of prespawn mortality in adult UWR Chinook, Middle fork Basin of the Willamette River  
  o PI’s: Carl Schreck, Michael Kent, James Peterson

• Reproductive Ecology of the Nassau Grouper  
  o PI: Scott Heppell

• Conservation and Restoration of native Bull trout  
  o PI: Carl Schreck

• Development of a wild fish surrogate for UWR Chinook salmon  
  o PI: Carl Schreck and David Noakes

• Effects of Environmental stressors on cardiac physiology in Rainbow trout  
  o PI: Carl Schreck