

## **National Fish and Wildlife Foundation Grant Request Project Summary**

**Project Name and Number:** A Preliminary Assessment of the Potential Hazards of the Anticoagulants Diphacinone and Brodifacoum to Arboreal Salamanders.

**Recipient Organization/Agency:**

**Signatory Name, Title and Contact Information (The person who will be signing the Letter of Donation on behalf of Organization/Agency):**

**Recipient Organization Web Address:**

**Date Submitted:** March 1, 2023

**Period of Performance:** Month, Day, Year – Month, Day, Year

**Summary of Proposed Project Activities:**

We propose a study, using live-captured or purchased salamanders to do a preliminary assessment of the potential hazards of two anticoagulants to those animals. Three routes of exposure would be examined: 1) allowing salamanders to feed on crushed anticoagulant pellets (direct internal exposure), 2) allow the salamanders to consume insects that have fed upon anticoagulant pellets (indirect internal exposure, and 3) spraying salamanders with water that has been used to soak anticoagulant pellets (direct external exposure). These studies would be conducted at the USDA National Wildlife Research Center in Fort Collins, Colorado, under an IACUC-approved study protocol.

**Summary of Proposed Budget:**

The budget needed for the study would be about \$35,000 to fund staff, pay for travel to capture and transport salamanders, provide supplies, support animals care staff and needs, and the required indirect costs.

**Project Manager:**

Name

Title

Organization

Street Address

City, State, Zip

Phone Number

E-mail

**Program Synopsis:**

**Overall Project Objective:** Invasive rodents cause much damage to island ecosystems and anticoagulant rodenticides are an essential tool for the eradication of invasive rodents on islands. However, anticoagulant rodenticides may pose hazards to non-target animals. This can occur through the direct consumption of the rodenticide material or from indirect exposure in which case the non-target animal consumes prey (rodents or insects) or scavenges on dead rodents that have previously consumed the anticoagulant bait.

**Overall Project Outcomes.****Overall Project Budget.**