

BUDGET JUSTIFICATION – JONES

A. SENIOR PERSONNEL

Co-PI Adam G. Jones will oversee the research group at the University of Idaho, which will be responsible for the collection of samples, some initial molecular work (such as DNA and RNA extractions), and much of the downstream analysis of syngnathid genomes. Dr. Jones has used molecular and ecological methods to study the evolution of syngnathid fishes for over two decades. He has expertise in sexual selection, evolutionary biology, genomics, bioinformatics and computational biology. The University of Idaho has determined the salary year for senior personnel to be based on the calendar year.

We are requesting one month of summer salary per year for Dr. Jones. His current salary is \$12,275 per month, and we have budgeted for a three percent increase per year.

We are also requesting funds to support a to-be-named postdoctoral scientist in Years 2 and 3. We are requesting \$50,000 in salary in Year 2 with a three percent increase to \$51,500 in Year 3. This postdoc, located at the University of Idaho, will work closely with Co-PI Jones and the Cresko Lab at the University of Oregon to analyze and interpret the syngnathid genomes in a comparative framework.

B. OTHER PERSONNEL

B3. Graduate Students. One to-be-named graduate student will be recruited to work on this project at the University of Idaho. The starting annual salary will be \$24,000, and we have budgeted for a three percent increase per year.

C. FRINGE BENEFITS – Fringe for Dr. Jones is 30.9 percent. Fringe rates for the postdoc and graduate student are 40.5 percent and 3.4 percent, respectively.

E. TRAVEL

E1. Domestic Travel. Domestic travel requests for this project include travel to meetings, collecting trips along the North American coasts, and travel to annual meetings of the research team at the University of Oregon or University of Tampa. We have budgeted \$1,500 per person in each budget year for travel to a domestic meeting. This figure comes out to \$3,000 in Year 1, and \$4,500 per year in Years 2-3. The domestic collecting will be completed in the first two years of the project, and we have asked for \$4,000 per year for these collecting trips. Each year, the project participants from University of Idaho will travel to University of Tampa or the University of Oregon to meet with the other project participants (from Tampa and Oregon). We have budgeted \$1,000 per person for these trips.

E2. Foreign Travel. The collection of samples will require travel by some of the participants to foreign locations. In each case, we will work with field contacts (including Graham Short and Healy Hamilton), as well as local collaborators (such as Nuno Monteiro). We anticipate two trips to Europe (Portugal and Sweden) and one to Australia. We have budgeted \$4,000 per participant (Jones and graduate student) for these trips (one trip per year). Thus, the total for foreign travel will be \$8,000 per year.

G. OTHER DIRECT COSTS

G1. Materials and Supplies. The main laboratory activities at the University of Idaho will be fish husbandry and simple molecular techniques, such as RNA and DNA extraction. We are requesting \$8,000 per year for fish husbandry. This figure includes animal facility room charges, saltwater, fish food, and other miscellaneous expenses associated with fish care. We are asking for \$3,000 per year for miscellaneous reagents for the molecular lab at the University of Idaho. These reagents include DNA and RNA extraction kits, pipette tips, agarose, various buffers, quantitation reagents, and other disposable items. The total for materials and supplies is thus \$11,000 per year.

G2. Publication Costs. We are requesting \$1,000 per year to cover page charges.

G4. Computer (ADPE) Services. The fee for access to the IBEST computing cluster at the University of Idaho is \$2,000 per person per year, so we have requested funds to cover this fee for each participant each year.

G6. Other. We are requesting funds to cover graduate student tuition and fees, which we expect to be \$11,674 in Year 1, with a 3 percent increase per year.

I. INDIRECT COSTS – The overhead rate at the University of Idaho is 47.5%. Indirect costs are not charged for graduate student tuition and fees. Total indirect costs over three years, \$177,163.