**SOP for Egg handling, Internal and External Transfers**

**Purpose:** To describe the handling of eggs produced from the Quarantine Rack System, Experimental Rack System, and eggs received from other laboratories or stock centers..

**Person Responsible:** PI team

**Frequency:** As needed.

**Documentation:** Shipment paperwork, USDA forms.

**Materials:** Quarantine housing rack (Aquatic Ecosystems); Fish feed (adult and fry); Chlorine Bleach; MS-222; Embryo media, Filtered facility water, Distilled Water, Petri Dishes, Incubator, Plastic Container, incubator, newly hatched *Artemia,*

**Procedures:**

1. Eggs are collected from Quarantine Rack System or from shipment and placed into petri dishes containing Fish Embryo Medium (SOP XXX) and placed in an incubator.
2. The eggs are bleached with 0.1% bleach (70 microliters bleach per 150 ml of water) for 3 minutes to avoid contamination.
3. Once the eggs have been maintained for 24 hours, they are manually de-choronized.
4. The hatched larvae are maintained in the petri dish for 5 days in the incubator. During this time, feeding is not necessary as larvae are utilizing their egg sac.
5. On day 6, start feeding the <24 hour hatched *Artemia* and pass the fish to a plastic container and maintain at 28° C.
6. Every day, change 1/3 of the water in the plastic container with fresh water and skin the surface.
7. During this time, the fish are fed two to three times daily.
8. On day 14, fish are fed as above with the addition of 100–150 µm size Larval Pro.
9. On day 21, the Embryo Media can be replaced with the Filtered Facility Water.
10. On day 30, the fish can be transferred to the Experimental Rack System and fed gradually increasing size feed dependent on fish size
11. On day 45, fish can be fed with adult feed and live *Artemia* and maintained as per SOP XXX.