

Sanitizing Embryos for Nursery Incubator

TITLE: Sanitizing Zebrafish Embryos – CZAR Policy as of 1/31/18.

PURPOSE: To reduce the risk of spreading pathogens between systems, and to reduce the burden of current pathogens, by requiring that all embryos going into the CZAR nursery incubator should either be bleached or Ovadine treated using the CZAR Bleaching or Ovadine protocols. The Bleach +Ovadine protocol must be used for embryos coming out of the CZAR QX room.

All requests for importing embryos must be reviewed by the CZAR staff **two weeks** prior to arrival. Please send a request email to mhobbs@cores.utah.edu; (see item f below).

General:

- a. Examine embryos prior to treatment to ensure intact chorions. Discard any embryo that is dead, unfertilized, or has a disrupted chorion.
- b. Embryos should be bleached between 6-27 hpf (after gastrulation), or 6-48 hpf for Ovadine.
- c. Bleaching hardens chorions and makes it difficult for embryos to hatch on their own. Plan on adding some pronase to soften the chorions (or dechorionate entirely) or manually dechorionate your embryos after bleaching. The CZAR staff will NOT do this for you.
- d. Ovadine treatment *does not* require pronase afterward. The embryos will hatch normally.
- e. **Only bleached or Ovadine treated embryos will be accepted into the CZAR Nursery incubator starting 1/15/18, including ALL in house (CZAR) produced embryos.**
- f. **All imported embryo requests** must be reviewed by the CZAR two weeks prior to arrival by sending an email to mhobbs@cores.utah.edu. The request must contain contact information for the manager of the facility of origin so we can request pathology and sanitizing protocol information. The pathology reports will be reviewed by the CZAR staff and a determination of destination (CZAR nursery or QX) will be relayed to the requester.

Embryo Origin	Fish/embryo History	Treatment	Approved Destination
CZAR	Live in CZAR	Ovadine or Bleach	CZAR Nursery incubator
CZAR	Live in CZAR, Lab injected	Ovadine or Bleach	CZAR Nursery incubator
CZAR	Live in CZAR, Lab procedure	Ovadine or Bleach	Need to discuss with Maurine
CZAR QX	Live in QX	Bleach + Ovadine	CZAR Nursery incubator
U of U lab	Live in other U of U fish room	Bleach + Ovadine	CZAR Nursery incubator
Outside Lab	CZAR Approved path report	Bleach + Ovadine	CZAR Nursery incubator
Outside Lab	New pathogens in path report	Bleach + Ovadine	CZAR QX room

*Path reports must be obtained and reviewed by Maurine at least 2 weeks prior to any embryos being shipped to the CZAR. Please plan ahead and consult with Maurine.