

## Raising zebrafish using the simple method

### Preparation for spawning:

- 7 days before spawning set-up enough paramecium (paramecium needs at least 5 days to become a strong culture→ the larger the culture vessel the longer it will take) → see Zebrafish live feed preparation
- 7 days before spawning start feeding broodstock twice a day and supplement with brine shrimp. Also adjust broodstock tank water to 28C.
- 3 days before spawning set-up spawning (Figure 1) tank and adjust temperature to 28C
- 1 day before spawning set-up beakers with system water in 28C water bath

### Spawning:

- Afternoon: transfer broodstock to spawning tank (Figure 1), making sure all fish are in the cage, aeration is on and halfway up the water column. Clean tank of broodstock and set back up immediately [1].

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### D0 Morning:

- remove cage with broodstock fish and transfer to cleaned tank
- add 400µl Methylene Blue (2%) (water volume = 3.5gallon or 13L) disconnect water flow

### D2:

- connect tank to flow through, set drip to very slow (1 drop of water every 2-4 seconds)

### D3-D7:

- feed 2-3 L of filtered paramecium twice a day
- siphon tank every other day

### D8-D15:

- slowly phase out paramecium twice a day
- feed 50 ml Artemia twice a day
- siphon tank every day

### D16-22:

- feed one 1/8 teaspoon Shell Free Artemia and 100 ml Artemia twice a day
- siphon tank every day

Day 23-90 refer to protocol for

## Raising zebrafish using the general method



Figure 1: Spawning tank. A 5 gallon flow-trough tank is fitted with a mesh cage that holds broodstock.

Suppliers list

Shell Free Artemia

[www.artemia-international.com](http://www.artemia-international.com)

For siphon:

Disposable Serological Pipets (13-676-10R)

[www.fishersci.com](http://www.fishersci.com)

Vinyl Clear Tubing (TV40)

[www.aquaticceco.com](http://www.aquaticceco.com)

References:

1. Hohn, C. and L. Petrie-Hanson, *Low-Cost Aquatic Lab Animal Holding System*. *Zebrafish*, 2007. **4**(2): p. 117-122.

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