



Eggs injections

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COMMENTS 0

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IN DEVELOPMENT

ABSTRACT

Protocol for microinjections of 0-dpf eggs @FishFloorUCL.

PROTOCOL CITATION

FishFloorUCL 2022. Eggs injections. protocols.io https://protocols.io/view/eggs-injections-ckbgusjw

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Set-up breeding pairs

1 Set up the breeding pairs the night before or order them from the fish facility. Arrive early in the morning, 9AM for single cell, 9:30 for fish facility injections.

Make sure to book the injector in advance.

Calibrate the needle

2 Open the red valve for your injector, you should see the dial turn to ~40



3	Power on switch
4	Set the time to 14-15ms
5	Take a needle from the large Petri dish on the side and stick in the blue tack above the microscope
6	Add what you want to inject (less is better, eg: 1-3 nL)
7	Place the black measuring slide under the microscope, add a drop or two of mineral oil and focus on the little ruler.
8	When tilting the whole needle base use both hands. When not using make sure it is tilted up
9	Tilt the needle into the oil
10	Break the needle with forceps and press the pedal until the correct amount is coming out of your needle (using the table on the wall to calibrate)
	Collect eggs
11	Take the dividers out of the fish boxes

12	wait 6-7 minutes
13	Transfer the fish to new boxes and replace the dividers for another round of eggs
14	Collect the eggs by pouring the water through a small sieve and transferring this to a Petri dish, clearly labelled
	Inject the eggs
15	Use a Pasteur pipette to transfer eggs to a new pipette
16	Use a thin ended pipette to remove all the water and then line them up along the edge of a glass slide placed in the Petri dish
17	Go down the line of cells and inject one at a time
18	Collect a new clutch and repeat.
	Turn everything off/clean after yourself

19

Turn off the red tap.

20	Turn time to minutes, press pedal until the dial has run completely down, flick it back to ms
21	Turn off the power switch

22

Wipe down everything with ethanol.