

ATAC-seq in zebrafish

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10/12/2018

Notes

Protocol is modified from the lab of José Luis Gómez-Skarmeta (July 2018) from a protocol for whole *Danio rerio* embryos of 256 cell to 48 hpf stage animals.

Number of cells

We hope to acquire ~10k cells for processing.

Cell Lysis and Transposition Reaction

1. Depending on stage, you might want to dechorionate embryos with pronase. If so, rinse embryos several times with E3 to remove the pronase.
2. Transfer the tissues to 1.5 eppendorf tubes and remove the E3. Add 0.5 ml of Ginzburg Fish Ringer w/o Ca buffer (55 mM NaCl, 1.8 mM KCl, 1.24 mM NaHCO₃). Pipette up and down to dissolve the yolk. Leave rotating at 1100 RPM for 5 minutes.
3. Centrifuge at 4 C for 5 min at 500 g.
4. Remove supernatant and wash (one or more times if necessary)