## ATAC-seq in zebrafish

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## 10/12/2018

## Notes

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

## Cell Lysis and Transposition Reaction

- 1. Depending on stage, you might weant 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 NaHC03). Pipette up and down to disolve the yolk. Leave rotating at 1100 RPM for 5 minutes.
- 3. Centrifiuge at 4 C for 5 min at 500 g.
- 4. Remove supernatant and wash (one or more times if neccessary) with ice cold 1x PBS.
- 5. Centrifuge at 4 C for 5 min at 500 g.
- 6. Resuspend cells in 50 ul of lysis buffer (10 mM Tris-HCL, pH 7.4, 10 mM NaCl, 3 mM MgCl2, 0.1% NP40), and pipet up and down to lyse the cells.
- Recipe for 1 ml lysis buffer: 5 ul Tris 2M pH 7.5, 2.5 ul NaCL 4 M, 3 ul MgCl 1M, 10 NP40 10%, 970 H20.

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