**Sample Processing on Day of Data Acquisition**

(Done in the UNC Mass Cytometry Core Lab)

* Centrifuge to pellet cells (800xg). Pour-off supernatant.
* Wash cells by adding 1 ml of Maxpar Cell Staining Buffer (Fluidigm), centrifuge and discard supernatant by aspiration.
* Wash cells with 1 ml Cell Acquisition Solution (CAS, Fluidigm), centrifuge and discard supernatant by aspiration.
* Resuspend in 0.5 ml CAS.
* Filter cells using Flowmi™ Tip Strainers (Bel-Art, Cat#H13680-0040 for 40m or #H3680-0070 for 70 M).
* Adjust cell concentration to 0.5 x 106/ml in CAS, include spike with 10% (v/v) EQ beads (Fluidigm).
* Work with the mass cytometry staff to run samples on the Helios mass cytometer.