Aria II sorting information

This document is a work in progress

Additional information can found on the facility website under “Protocols and Reagents”: https://fccf.sitehost.iu.edu/protocols.html

- Please see: FCCFinfo, Project description form and Biohazard form (if sample is or contains a biohazard)

When requesting a sort time, please complete and send the Aria II questionnaire EACH TIME

https://fccf.sitehost.iu.edu/pdf/IUBFCCF_AriaII_Form_2015_2.pdf

- Please make sure that the information on the form is accurate – this helps ensure that the sorter is set-up correctly. If the information is not accurate and extra time is required, this time will be billed to the user.

Take the following into consideration when scheduling Aria II sorting:

- When the facility is open, the Aria II is available for sorting between 10:30am-4:30pm
- The Aria II takes ~1.5 hours to set up initially; if the facility manager/technician is scheduled on another instrument, away from the facility at a meeting, doing a biosafety training, or is unavailable for a period of time, please allow 1.5 hours **after** that time for set-up
  - For example, if the facility manager/technician is away or helping someone on another instrument from 10:30am-12:30pm, then the Aria II would not be ready for sorting until 2pm.
- At least 15 minutes of cleaning time is required after/between sorts (billed as part of the sort time)
- Approximately 1 hour is needed to switch between nozzles – if your sort requires a different nozzle, please take this into consideration when scheduling the sort
- If this is a new sorting experiment, or this type of sorting has not been performed in a while (months to years), contact the core manager to set up a meeting to discuss the sorting experiment to ensure that the sort will be set up properly

Additional things to consider for the sort:

- What is the diameter of the cells?
- What media/solution will the samples be brought in?
  - Does BSA or FBS need to be added (≤1%)
  - Is EDTA required?
  - Should DNAse be added (to live cells)? Dead cells release DNA and DNA is sticky.
- What media/solution with the samples be sorted into?
- Have all the proper controls been prepared?
- Has a viability dye been added to make sure that only live cells are sorted?
- What is the end goal for the cells?
  - DNA, RNA, or protein analysis?
  - Culturing?
  - Other downstream experiments?
- Were the cells filtered IMMEDIATELY BEFORE bringing them to the facility?
- Did you bring extra collection tubes or are there extra collection wells just in case?
- Did you bring extra filters in case cells aggregate?