Aria II sorting information

This document is a work in progress

Additional information can found on the facility website under "Protocols and Reagents":
http://www.indiana.edu/~fccf/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

http://www.indiana.edu/~fccf/pdf/IUBFCCF_AriaII_Form_2015_2_distributed.pdf

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

Please take the following into consideration when scheduling Aria II sorting

- When the facility is open, the Aria II is available for sorting between 10am-4:30pm.
- The Aria II takes at least 1 hour to set up; 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 hour **after** that time for set-up
    - For example, if the facility manager/technician is away or helping someone on another instrument from 10am-12pm, then the Aria II would not be ready for sorting until 1pm.
- Approximately 10 minutes of cleaning time is required after/between sorts (billed as part of the sort time
- At least 45 minutes to 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), a meeting to discuss the sorting experiment may be requested to ensure that the sort will be set up properly

Some additional things to consider the sort

- 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 analysis?
- Were the cells filtered IMMEDIATELY BEFORE bringing them to the facility?
- Are there extra collection tubes or wells just in case?