## Shared Resource Updates

The new BD FACSAria III will deliver high-speed cell-sorting and additional multicolor capabilities beyond what is currently offered in the ACSR. The new instrument will effectively double the sorting capability of the shared resource. In addition, it will be equipped with four lasers: the usual blue 488 nm and red 640 nm our instruments currently have, along with an additional UV 355 nm and a yellow 561 nm laser, giving us the ability to analyze 12 fluorescent parameters. The 561 will give us capabilities to analyze and sort cells expressing mCherry and DsRed fluoroprobes. The UV excitation will give better excitation for DAPI and Hoechst dyes, and include a filter set for side populations. A redesigned flow cell will enable the Aria III to be able to sort cell cycle samples. Like our current Aria IIu within the core, the new Aria III will be capable of sorting four populations into microtubes, 12x75 mm tubes, two ways into 15 mL conical tubes, along with various plates from six to 384 wells. The current, estimated delivery date is the end of May/early June, and it is planned to be operational by the fourth week of June.

Until the system is ready for operation, we are increasing our efforts to meet the growing demand for sorting capability by providing sorting services beyond normal operating hours. Please speak directly with ACSR personnel to discus and schedule these off-hour services.

For more information, contact <u>Bryan.McElwain@osumc.edu</u> or visit <u>http://cancer.osu.edu/research/cancerresearch/sharedresources/ac/pages/index.aspx</u>.