

## Research Flow Cytometry Core

# Quarterly Newsletter



Information Provided by your CCHMC RFCC

### Work Smarter, Not Harder

#### Utilize Experiment Templates!

On FACSDiva, experiment templates are created by right-clicking on an experiment and selecting **Export > Experiment Template**. This [video](#) provides insight on how to import/export templates on FACSDiva.

Templates serve as an empty shell for future experiments. Stripped of recorded data, templates contain the calculated compensation, gating strategy, dataless tubes, and sorting strategy (if on a sorter) in the original experiment. You can utilize a template endless times, without risking corrupting your experiment file. Corrupt files can occur in numerous ways, most commonly when duplicating a previously recorded experiment or when adding new tubes for recording data, in a previous experiment with recorded tubes.

Unfortunately, you cannot copy a template or experiment file from one instrument and use it on a different instrument. Instruments have varying laser configurations or filter sets impacting the compatibility of the experiment:

- Canto 1 cannot be used on the Canto 2 or 3 - which do not have a **561nm laser**.
- LSRFortessa 2 has an ND filter in front of the flow cell and needs higher voltages than the other LSR Fortessas.

### Sorting Updates

#### Bigfoot Sorter Available!

The ThermoFisher **Bigfoot** Spectral Cell Sorter is available for staff assisted sorting. This instrument replaces the MoFlo which has officially been retired. The Bigfoot is a jet-in-air instrument designed to expand your capabilities with 5 lasers and 48 detectors. You can run existing experiments using conventional unmixing or take advantage of the spectral unmixing capabilities. The Bigfoot system can sort into tubes or plates. The Bigfoot instrument can be booked after a consultation with Ken. Please contact [Ken Quayle](#) if you have questions or would like to use the Bigfoot.

#### FACSymphony S6 Sorter Coming!

A BD FACSymphony S6 sorter is on its way. This new sorter will have 5 lasers and 24 detectors. It will allow 6-way sorting into tubes or plates with a variety of nozzle sizes. The FACSymphony S6 sorter will accept a broad range of fluorochromes and has an ultra-quiet electronics system enabling the sorting of rare cell types.

### Core Updates

#### Reminder

Following the annual overall survey (thank you for your participation!), we wanted to clarify some policies:

- 1) If you are late for your appointment on an analyzer (more than 15 min), someone else can use your time.
- 2) Contact [Celine](#) if you need more than 4h on an analyzer. You will need to schedule your time around 5 PM to allow other users to have access to the instrument.
- 3) You are charged for the time you scheduled on Stratacore and the extra time on the instrument. If you don't log out of the computer, you will be charged... It can be more than \$400 for the night!

#### Staff

Amaya Willemsen has joined our RFCC. We thank you for your patience as she integrates into our team. Abbey McKee has left the core to move on to Medical School in Arizona. We wish her the best! While we will greatly miss Abbey, we know she will be an excellent doctor.

Before leaving, Abbey shared all her tricks on the Sonys to Mary Mullen. Please contact [Mary](#) if you have any questions about those instruments.

### Dates to Note

8/24: 1-2 PM: **ORVCA seminar** on QuantiGene (a Luminex Assay which can efficiently measure up to 80 RNA targets per sample directly from a variety of sample types eliminating RNA isolation.)

8/22-23: **Advanced Flow Cytometry Course**. Dr. Timothy Bushnell, Ph.D., co-founder of Expert Cytometry, will be teaching the class.

09/16 - 09/18: **GLIIFCA XXXI Annual Scientific Conference** in Indianapolis, IN

9/29: **The 12th Annual Ohio River Valley Cytometry Association Conference**: with Dr. Johnathan Irish as the Keynote Speaker, Drs. Vera and Albert Donnenberg as Featured Speakers and Dr. Marie-Dominique Filippi as our Local Speaker.

#### FY23 Pricing

Our pricing has gone up slightly for the 2023 fiscal year and started on July 1, 2022. Please note that we try to keep our prices low and are much lower than many Flow core facilities. Please visit our [website](#) for further information.