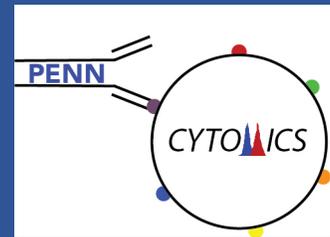


PENNFLOW

The Penn Cytomics and Cell Sorting Laboratory Newsletter



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Instrumentation

AriaFusion B



AriaFusion B
SN: R65670000064
12-252 Smilow TRC

Blue Laser (488nm)		670/20 Red	Red Laser (640nm)
530/20 Blue	895/40 Blue	670/20 Red	780/60 Red
Blue PMT B	Blue PMT A	Red PMT B	Red PMT A
AF488	7-AAD	APC	APC-Cy7
BB515	BB700	AF647	APC-H7
CFSE	PerCP-Cy5.5	eF660	APC-A750
FITC	PerCP-eF710	eF670	APC-eF780
GFP	Sytox-Advanced	DyLight 649	APC-FIRE
YFP		TO-PRO-3	
Yellow-Green Laser (561nm)			
582/15 YG	610/20 YG	670/14 YG	780/60 YG
YG PMT D	YG PMT C	YG PMT B	YG PMT A
BV605	PE-Cy5	PE-Cy7	PE-Vio770
DsRed	PE-Texas Red		
PE	PE-AF610		
tdTomato	PE-eF610		
RFP	PI		
RY586	mCherry		
Violet Laser (405nm)			
450/50 Violet	525/50 Violet	610/20 Violet	
Violet PMT C	Violet PMT B	Violet PMT A	
AF405	BV510	BV605	
BV421	Fix/LD Aqua		
S8436	V500		
DAPI			
CellTrace Violet			
eF450			
Pac Blue			
BFP/CFP			
V450			

LEGEND
AF - Alexa Fluor
AF - Brilliant Blue
BUV - Brilliant Ultraviolet
BV - Brilliant Violet
BYG - Brilliant Yellow Green
eF - eFluor
L/D - Fixable Live/Dead

The AriaFusion B has arrived in Smilow TRC and is located in 12-252. This cell sorter is available to all users of the flow core that are sorter biohazardous trained.

The AriaFusion B is an 11-color 4-laser system in a biosafety cabinet that offers high dimensional sorting in a contained environment.

For all Aria Fusion B questions and access, please contact Bill Murphy.

BD Rhapsody



The BD Rhapsody is a powerful, high-throughput, microwell-based single-cell partitioning system, combined with visual workflow QC. The Rhapsody uses a single-cell analysis system that allows high-throughput capture of multiomic information from single cells using a simple cartridge workflow and a multitier barcoding system. The resulting captured information can be used to generate various types of next generation sequencing (NGS) libraries. NGS libraries are sequenced and analyzed to provide high-dimensional resolution of single cells.

The Rhapsody, with its very easy to use streamline workflow, has a high capture rate and low multiplet rate across cell inputs. The Rhapsody is located in 233 JMB. If you are interested in learning more about the BD Rhapsody, please reach out to us for more information or training.

♪♪ **It's beginning to look a lot like Christmas with the Nexcelom Cellaca MX** ♪♪



The Cellaca is a new instrument in the Penn Cytomics lab that we are very excited about. For those not familiar with the Cellaca, it is a high throughput cell counter and viability instrument with dual fluorescence (acridine orange and propidium iodide). Above is an image of human PBMC with an extremely large number of RBCs. The Cellaca can easily differentiate RBCs (unlabeled cells) from live WBCs (green/AO) and dead WBCs (red/PI), thus giving you a more accurate cell count. Contact Jen Jakubowski at jennifer.jakubowski@pennmedicine.upenn.edu to learn more!

Upcoming University Holiday Break

University Holiday Break: Access and Staff Availability

The University will be on Holiday break from December 24, 2022 to January 2, 2023. *Cytomics staff members will not be on site during this time period.* Trained users are welcome to use instrumentation during the break, however daily QC will not be performed, and instrument issues may not be able to be resolved until January 3rd at the earliest. Please refer to the FlowRemedy troubleshooting flowchart for any issues, and email Bill or Derek with any persistent issues during the holiday break.

A more detailed bulletin with contact information will be posted on all cytometers prior to the holiday break.

Policy Reminders

Logging in using other lab member's ID

Our staff have recently noticed an increase in the number of users forgetting their PennCard IDs, and using another user's ID to log into the cytometer. After their session, they then issue a request to staff to amend the billing and usage data accordingly. This is in violation of our SRL policy, as written below:

Users may not “share” scheduled time with fellow lab members, as this will result in a double charge within the SRL billing system (User 1 is billed as a no-show, User 2 is billed for actual instrument usage). In this instance, User 1 should cancel their reserved time, and User 2 should reserve the instrument under their own credentials. If this is not practicable, the SRL usage and billing software allows users to leave a comment requesting staff to amend the usage session.

Please make an effort to use only your own Penn credentials to access instrumentation.

Upcoming Events

CYTO 2023



CYTO 2023 will be held from May 20-24, in Montreal, Quebec. The official program of speakers has not been announced yet, but you can be sure that the talks, session and panels will cover all topics in Flow Cytometry.

If you would like to submit a poster or are interested in attending this year's CYTO, here is the link to their webpage. Poster abstracts are due by January 13, 2023.

<https://www.cytoconference.org/abstracts.html>

Congratulations

The Penn Cytomics lab would like to congratulate Jen Jakubowski for her latest promotion. Jen has been promoted to Project Manager. We are sure Jen will excel in her new position.

Thank You

The Penn Cytomics Lab would like to thank you for a very successful 2022. It has been a crazy year for us. Tom and Paul both retired, which we are still bouncing back from. We are grateful to have added Sam to our team. We also added many new instruments this past year, including an A3 Lite, an AriaFusion, a cell counter/viability instrument, and the gentleMACS tissue dissociator. We are appreciative of users filling out our surveys. Hopefully, we will keep that to a minimum in 2023.

This coming year looks to be even more eventful. I am sure we will add more instruments, more staff (hopefully), and the S8 Discover (eta early 2023). Thank you once again and see you in 2023!
