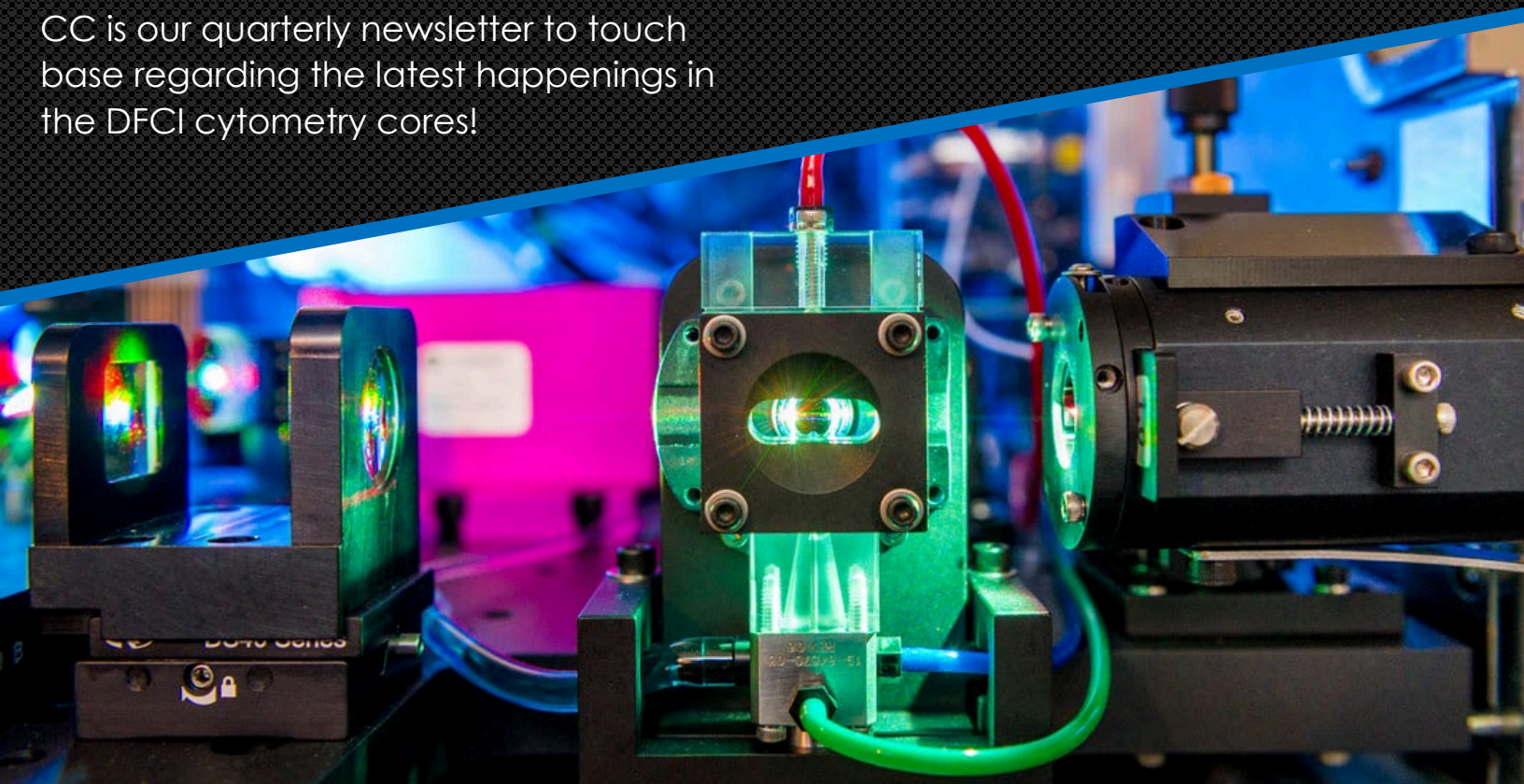


October 16, 2024

CC is our quarterly newsletter to touch base regarding the latest happenings in the DFCI cytometry cores!



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Thursday, November 7th

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Q & A with some familiar faces

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Lowering boundary of entry for high-parameter immune tracking

Page 5 **Office Hours**

Expert guidance in Mass and Flow cytometry monthly, on-site!



FlowJo™ Software v10 Seminar

Dana-Farber Cancer Institute
Thursday, November 7th 2024
Yawkey 306/307

SESSION DETAILS:

Introduction / Refresher to FlowJo™ Software v10	10:00 - 11:30
Deep dive on compensation / unmixing	11:45 - 12:30
Cell cycle analysis	1:30 - 2:00
High-dimensional data analysis	2:15 - 3:30
Last chance Q&A	3:30 - 4:00

Sessions will be a mixture of lecture and hands-on training. To follow along hands-on download the data from <https://flowcytometry.dana-farber.org/seminars.html>. For a temporary FlowJo license for the day contact john.flowjo@bd.com. Seats are limited and will be offered in the order registrations are received. Those with a confirmed seat will be notified by e-mail, all others will be waitlisted.

Register at: <https://info.flowjo.com/dana-farber-7nov24>

PRESENTED BY:

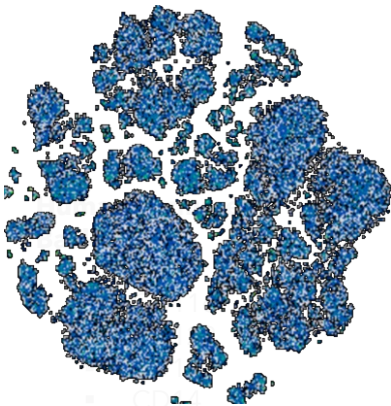
John Quinn, PhD
Director, Science & Product Development BD BioInformatics



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Click Here to Register
(Breakfast and Lunch Served!)

Click Here for Data Link
<https://flowcytometry.dana-farber.org/seminars.html>



Core-developed Human and Mouse Backbone Flow Cytometry Panels

Interested users are welcome to try any of the three panels below on their samples risk free!

We offer five antibody tests of any of the panels below for you to try on your samples. For more info, contact us directly at JF_flow@dfci.harvard.edu.

The cores are happy to offer both a human and two different mouse immune backbone panels.

- CD16
- CD161
- CD183 (CXCR3)
- CD185 (CXCR5)
- CD19
- CD194 (CCR4)
- CD197 (CCR7)
- CD198 (CCR2)



- Human Immune Backbone**
- CD11c
 - CD123
 - CD127
 - CD14
 - CD16
 - CD161
 - CD183 (CXCR3)
 - CD185 (CXCR5)
 - CD19
 - CD194 (CCR4)
 - CD196 (CCR6)
 - CD197 (CCR7)
 - CD20
 - CD25
 - CD27
 - CD28
 - CD294
 - CD3
 - CD38
 - CD4
 - CD45
 - CD45RA
 - CD45RO
 - CD56
 - CD57
 - CD66b
 - CD8a
 - HLA-DR
 - IqD



- Mouse Lineage**
- B220
 - CD11b
 - CD19
 - CD24
 - CD25
 - CD3e
 - CD4
 - CD41
 - CD43
 - CD44
 - CD45.1
 - CD45.2
 - CD61
 - CD71
 - CD8a
 - F4/80
 - IgM
 - Ly-6C
 - Ly-6G
 - NIR
 - NK1.1
 - TER-119

- Mouse Progenitor**
- CD117
 - CD11b
 - CD150
 - CD16/32
 - CD19
 - CD34
 - CD3e
 - CD45.1
 - CD45.2
 - CD48
 - Flt3
 - IL7Ra
 - Ly-6G
 - Sca-1
 - TER-119

Researcher Feature



Elisa Mandato, PhD

*Instructor in Medicine
Shipp Lab*

What is the role of flow cytometry (FC) in your current research?

We were posed with the challenge of validating our scRNAseq data. We decided that a combination of IHC and FC would be the most effective means to spatially and quantitatively characterize each immune cell subset.

What instrument do you primarily use in the core?

We have historically used the BD LSRFortessa but we recently took advantage of the newly available Sony ID7000. Our research called for high-plex profiling of our murine models, and the ID7000 has the optical bandwidth and throughput needed for this project.

How many parameters are your currently running in a single panel?

We are currently running two panels, our full scope immunophenotyping mouse splenic 40 parameter panel and our 28 parameter B-cell specific panel.

What is your favorite fluorophore?

PE-Fire640! It possesses a great combination of brightness, format availability and adaptability to high-plex panels with limited unmixing issues.

Staff Feature



Joshua Weaver, BS

*Cytometry Technologist
Cytometry Cores*

How long have you worked in the core?

I have been here for just over 2 years, directly after studying Biomedical Engineering at Umass Amherst. I interned in Ritz Lab during undergrad as well.

What drew you to Dana-Farber and the cytometry cores?

I was drawn to the Cytometry Cores due to all the opportunities I would get working on the array instrumentation while also meeting and collaborating with some of the smartest people from around the world .

What is the best part of your job?

The best part of my job is digging in deep and finding solutions to their problems ranging from experimental to technical issues.

What is your favorite fluorophore?

BV421, it is the best and the brightest.

What is a fun fact about yourself that some people may not know?

I have a twin brother who is NOTHING like me.

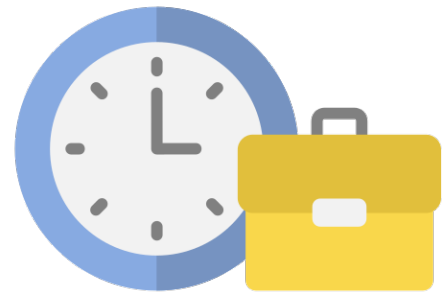
Cytometry Office Hours

Once a month for a full day, our local Field Applications Scientists will be on-site for consultation and guidance with regards interest in the Core's Sony ID700 spectral analyzer and our CyTOF XT Mass cytometer.

Field Application Scientists from Standard Biotools, Sony, and Biolegend are available to discuss the specified topics below.

*Examples of Office Hours Topics of Interest

- Spectral and Mass Cytometry panel design
- Even in consideration of future panels
- Best practices for controls and sample preparation
- Questions regarding specific reagents
- Sample acquisition questions
- Help with setting up an experiment on the ID7000
- New antibodies, fluorochromes, metals and related reagents
- Troubleshooting
- High-dimensional analysis guidance



[Flow Cytometry Office Hours](#)
(Click Here)



[Mass Cytometry Office Hours](#)
(Click Here)

