

ROSWELL PARK CANCER INSTITUTE FLOW AND IMAGE CYTOMETRY FACILITY NEWSLETTER, July-September 2013

What's New?

- In our continuing efforts to provide our users with the most up to date cytometry equipment and software, a **new Fortessa arrived here August 2**. It will be formally known as the Fortessa II. The Fortessa purchase was made possible in part by Institute support and will be placed in the flow cytometry user room where it will replace Calibur II. To make the transition as smooth as possible **new courses for introduction to Diva** are being scheduled.
- As previously published in this newsletter, the **efficiency of the Diva software** is highly **dependent on the amount of data** residing on the workstation. Due to continuing problems encountered with this issue **we are enforcing purging the data from the flow cytometry workstations on a monthly basis**. It is the users' responsibility to make sure the data is transferred off the workstation before the monthly purge. Note that the **new path to the Roswell X9000 data storage is \\flowcyto\flowResearch\$\PI<your PI Name>**. If you need help accessing this central data storage please contact Ed Podniesinski or any of the personnel assigned to the user room for the day.
- **Joe Tario** was named as one of this year's five recipients of the prestigious **ISAC Scholars Award**. From the ISAC website: *"The ISAC Scholars Program is designed to enhance the scientific and leadership experiences of emerging leaders in the field of cytometry. The ISAC Scholars program is designed for younger members and those new to cytometry. The program provides opportunities for leadership training, presentation opportunities, financial support for membership of the Society, as well as other valuable mentoring activities. Being chosen ISAC Scholar is an indication of leadership potential, scientific skills and ability to achieve career goals. This five-year program provides Scholars with a complimentary membership in the Society, subscription to Cytometry Part A, the official Journal of ISAC, complimentary registration to CYTO and travel funds for the conference and possibly a one-time mentor training opportunity"*.
- **Paul Wallace and Joe Tario** participated as teaching faculty in **36th Annual Research Course in Flow Cytometry** which was held at the University of New Mexico, Albuquerque, NM 6/8/13-6/14/13.
- **Paul Wallace** served as teaching faculty at **the Flow Cytometry Methods Course and Workshop** held at the Queensland Institute of Medical Research, Brisbane, Australia, 7/22/13-7/26/13.
- There's a new face in the lab! **Francine Bellanti** started in June as our **new clinical lab assistant**.
- An **onsite demo** is being scheduled for a **Multiphoton Intravital microscope** with **TILL Photonics** for **late September, early October 2013**. Application specialist from TILL Photonics will be available to demonstrate the hardware and software associated with this platform when the instrument will be placed. **The instrument will then be left for three weeks in our facility for (y)our use**. This is a great opportunity to get hands-on experience with the instrument, to obtain preliminary data and to assess if multiphoton microscopy can contribute to your research. Exact date and times will be posted on our announcement boards as soon as they are available. Please contact **Hans Minderman** for more information and if you would like to schedule access to this equipment.

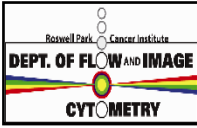


Recent Publications / Grant Funding

- Simpson-Abelson MR, Loyall JL, Lehman HK, Barnas JL, **Minderman H, O'Loughlin KL, Wallace PK**, George TC, Peng P, Kelleher RJ Jr, Odunsi K, Bankert RB. Human ovarian tumor ascites fluids rapidly and reversibly inhibit T cell receptor-induced NF- κ B and NFAT signaling in tumor-associated T cells. *Cancer Immunol*. 2013 Jul 15;13:14.

Courses / Presentations / Meetings

- The Great Lakes International Imaging and Flow Cytometry Association (**GLIIFCA**) will hold their **22nd annual meeting at the Detroit Marriott Hotel, Detroit MI, from Sept 27-29**. For more information visit the website www.gliifca.org.
- **Clare Rogers**, Field Application Scientist from DVS Sciences Inc. will be presenting a **seminar on the CyTOF** technology on **Tuesday August 13 in CCC314 from 11:30 -1:00 in the Grossberg Library Room CCC 314**. The CyTOF technology is a **mass cytometry** based flow platform that enables **highly multiplexed and deep profiling at the single cell level**. This technology is available to RPCI researchers through a collaborative agreement with the University of Rochester where this instrument is currently available.



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Service / Application Highlights

NEW BD FORTESSA FLOW CYTOMETER

Background:

A new Fortessa cytometer has just arrived in the user room!. The Fortessa purchase was made possible in part by Institute support and has been placed in the flow cytometry user room for general use where it replaced the Calibur II. To make the transition as smooth as possible **new courses for introduction to Diva** are being scheduled or schedule some one on one time with one of us- we want to help you get started.



"we shall call him..... number 2"

Configuration:

- 3 laser excitation (405 nm, 488 nm, 640 nm)
- Emission detection: 8 colors from the 405nm laser (including the new brilliant violet dyes)
- 5 colors from the 488nm laser
- 3 colors from the 640nm laser
- Software: Diva 6.3
- Operating System Windows PC

Laser	output	Wavelength	Band Pass	Parameter	example fluorochromes
Violet	50mW	405nm	780/60		BV785 / Qdot 800
			710/50		BV711 / Qdot 705
			660/20		BV650 / Qdot655
			610/20		BV605 / Qdot 605
			585/15		BV570 / Qdot 585
			560/40		Qdot 565
			530/30		BV510 / AMCyane
			450/50		BV421 / PacBlue /V450
Blue	50mW	488nm	780/60		PE-CY7
			695/40		PerCP-Cy5.5/7AAD/PI
			610/20		PE-TexasRed/PI
			575/26		PE
			530/30		FITC/GFP/AF-488/PI
Red	40mW	640nm	780/60		APC-H7/AF790/APC-CY7
			730/45		AF700
			670/14		APC/AF647

For more information please call:

Ed Podniesinski x8775
Rose Furlage x8883

Paul Wallace x8471
Hans Minderman x1161

