



March-April 2012

## Call for abstracts: Cancer Research Day is May 9

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The IU Simon Cancer Center is currently accepting abstracts for posters to be presented at Cancer Research Day, which is Wednesday, May 9.

Students, fellows, and faculty conducting cancer research at IUPUI, Indiana University-Bloomington, Purdue University, and the Harper Cancer Research Institute, a collaboration between the IU School of Medicine and the University of Notre Dame, are eligible to participate.

Abstracts should be submitted for basic science, translational/clinical research, population science/epidemiology, or behavioral categories. Individual laboratories may submit multiple abstracts; if space becomes limited, each laboratory will be asked to identify representative posters. Please submit all abstracts to [iuscccrd@iupui.edu](mailto:iuscccrd@iupui.edu) by April 13.

Cash awards for best posters by graduate students, post-doctoral/medical fellows, research technicians, and clinical nurses in all research categories will be selected by a review board.

Cancer Research Day takes place at the IUPUI Campus Center, 420 University Blvd., Room CE 450 (Multi-Purpose Room).

Full details and an abstract template can be found at [www.cancer.iu.edu/crd](http://www.cancer.iu.edu/crd).



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## Core Spotlight

### Flow Cytometry Resource Facility

The [Flow Cytometry Resource Facility](#), which provides essential and varied flow cytometric services to IU Simon Cancer Center members, recently purchased a BioPROtect® biocontainment enclosure hood.

The hood is specifically made to enclose the FACSAria sorter, enabling it to sort human cells and cells transfected with biosafety level 2 viruses.

"The hood increases our capacity to service a growing number of researchers who utilize primary human cells," Susan Rice, BA, MT(ASCP), the core's manager, said.

Flow cytometry is a method of simultaneously measuring multiple parameters of individual cells in solution. These parameters include certain characteristics of cells such as size, shape, and the presence of specific biological molecules found inside the cell or on the cell surface. Data is generated that quantifies the percentage of cells in the sample which have these markers.

Samples usually consist of mouse or human bone marrow, peripheral blood, or tumor. The cells can be labeled with one or more monoclonal antibodies, placed in a fluid, and passed in a stream through one or more lasers. Each antibody is conjugated to a different fluorescent molecule which is excited by the laser to fluoresce a specific color.

The measurements are based on how many of the cells have all, some, or none of the colors. This correlates to the presence or absence of those specific molecules on the cells. Populations of cells may then be collected or sorted away from the other cells present to give the researcher a pure population of a unique cell to study. Up to four different cell populations may be collected at the same time on a sample.

Overall, the core's personnel provides consultation, technical advice, and collaboration, which promotes cutting-edge science and serves as a central common area for IU Simon Cancer Center investigators to interact and exchange scientific information.

#### Upcoming events

**April 18-20, FloCytte:** Three-day beginner to advanced principles of flow cytometry. Register at [www.FloCytte.org](http://www.FloCytte.org). Early registration prices until April 1.

**10 a.m.-2 p.m. April 24, FlowJo:** software hands-on computer training session presented by Tree Star Inc. Please reserve your computer seat at [srice1@iupui.edu](mailto:srice1@iupui.edu).

The next Indy Flow Users Group meeting is 5-7 p.m. June 13 in

"If the investigator needs help setting up their experiment, we can advise them on the best way to utilize flow cytometry, the antibodies to choose, and the fluorochromes (any of a group of fluorescent dyes conjugated to antibodies used to label biological specimens) that the machines read to distinguish the different type of cells," Rice said. "Our mission is to assist researchers and to provide the support they need to successfully accomplish their sorting and cell analysis."

Specifically, the core offers:

- Multiparameter (1-10 color) immunofluorescence analysis and cell sorting

Walther Hall, room 303/305. Dinner and talk will be provided by Miltenyi Biotec. If you'd like to be added to the IFUG mailing list, send an e-mail to [srice1@iupui.edu](mailto:srice1@iupui.edu).

You can find all of the IU Simon Cancer Center cores [here](#).

- DNA content and cell cycle analysis
- Simultaneous immunofluorescence and cell cycle analysis
- Single cell sorting
- Cell sorting (bulk or single cells) based on position of cells in cell cycle
- Apoptosis analysis (Annexin V/PI, Caspase, TUNEL and other assays)
- BrdU incorporation
- Viability assays
- Chromosome analysis (univariate and bivariate)
- Receptor-ligand interactions
- Kinetic analyses
- Off-line data analysis

The Flow Cytometry Research Facility is located in Walther Hall, Room C360. Rice can be reached at 274-7587. **Edward Srouf**, PhD, is the core's director.



Research associate Kim Stoner uses the Bioprotect biocontainment enclosure hood, which was installed in February in the Flow Cytometry Resource Facility.



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### **3 join External Advisory Board**

Three people are new to the IU Simon Cancer Center's External Advisory Board (EAB):

- Lisa Cannon-Albright, PhD, professor and chief, Division of Genetic Epidemiology, Department of Internal Medicine, University of Utah School of Medicine
- Lisa Coussens, PhD, associate director of basic research, Oregon Health & Science University's Knight Cancer Institute; chair, Department of Cell & Developmental Biology
- Yves DeClerck, MD, director, Saban Research Institute of Children's Hospital Los Angeles; professor of pediatrics, biochemistry and molecular biology, Keck School of Medicine of USC. He is also co-leader of USC's Tumor Microenvironment Program.

The full board can be found [here](#).



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## News briefs

### IU Simon Cancer Center sponsors Coaches' Huddle April 28

As a sponsor of this year's American Cancer Society Coaches' Huddle Basketball Tournament, the IU Simon Cancer Center is assembling a basketball team, led by **Bryan Schneider, MD**.

Led by Butler Coach Brad Stevens and his wife, Tracy, the event will take place Saturday, April 28. All games and activities will be held on the Butler University campus, utilizing Hinkle Fieldhouse and the Health & Recreation Complex (HRC).

Participants in the Coaches' Huddle Tournament will form a team of eight to 10 and have additional opportunities for a pre-tournament practice with a "celebrity" coach. Celebrity coaches from the 2011 tournament included Purdue's Matt Painter, Butler's Brad Stevens, and former IU interim coach Dan Dakich.

There will be two brackets. The blue bracket will be for more of the recreational player. The white bracket will be for those wishing to compete at a higher level. Each team will play two games; one is guaranteed to take place on the main floor of Hinkle Fieldhouse. Play will begin on Saturday morning, with a break for lunch. There will be a third game played for the championship in each bracket. The day will conclude with an awards ceremony.



Throughout the event, additional activities will be offered to appeal to participants' families and friends. A Family Fun Zone will be set up in the West Gym to offer activities and entertainment for players and their families.

Watch for more details.

### Dr. Einhorn receives the 17th Annual

#### AACR Joseph H. Burchenal Memorial Award

**Lawrence Einhorn, MD**, will be awarded the 17th Annual AACR Joseph H. Burchenal Memorial Award for Outstanding Achievement in Clinical Cancer Research at the AACR (American Association for Cancer Research) Annual Meeting 2012, held in Chicago March 31-April 4.

[more](#) 

### Little Red Door presents Einhorn award to Dr. and Mrs. Hanna

**Nasser Hanna, MD**, and his wife, Amy, were presented with the 2012 Lawrence H. Einhorn M.D. Award by the Little Red Door Cancer Agency on March 21. The award was established in 2004 to honor an individual in central Indiana who has made a difference in the lives of people living with cancer. Dr. Hanna is a thoracic oncologist at IU Simon Cancer Center whose specialty is the

study and management of all forms of lung cancer. Amy Hanna is a registered nurse with extensive experience in research and patient management. The Hannas founded Lungs for Life in March 2004, which in 2009 officially changed to Cancer-Free Lungs. The primary role of the organization is the education of young people about the dangers of smoking.

### 2012 Trustee Teaching Award winners named

The IU Board of Trustees has announced the recipients of the 2012 Trustee Teaching Awards. Recipients receive a \$2,500 bonus, have their names displayed on a plaque, and are recognized at award ceremonies at IUSM and IUPUI. In addition, IUSM awardees are recognized at the medical school commencement in May. Excellence in teaching is the primary factor for selection. The following IUSCC members are recipients: **Richard Bihrlle, MD; Joseph Dynlacht, PhD; Nasser Hanna, MD; Paul Helft, MD; Hal Kipfer, MD; Patrick Monahan, PhD; and Bruce Robb, MD.**

### 6 earn travel awards from IUSCC

The IU Simon Cancer Center has awarded travel awards to six people, which help them to attend the American Association for Cancer Research (AACR) Annual Meeting in Chicago March 31-April 4.

The recipients are:

- **Valerie Fako Miller**  
Department of Pharmacology  
IUSM  
Mentor: Jian-Ting Zhang, PhD
- **Fang Fang, PhD**  
Postdoctoral Fellow  
IUSM  
Mentor: Kenneth Nephew, PhD
- **Elizabeth Phipps**  
Graduate Student  
IUSM  
Mentor: Brittney-Shea Herbert, PhD
- **Ravi Sahu, PhD**  
Postdoctoral Fellow  
Department of Dermatology  
IUSM  
Mentor: Jeffrey Travers, MD, PhD
- **Jordan Schmitt, MD**  
Hematology/Oncology Fellow  
Department of Medicine  
IUSM  
Mentors: Daniela Matei, MD; Susan Perkins, PhD
- **Rohan Sharma**  
Graduate Student, 2012  
IUSM  
Mentor: Attaya Suvannasankha, MD

### Volunteers needed for NIH Regional Seminar

Volunteers are needed to help with the NIH Regional Seminar, where the National Institutes of Health provides detailed information and advice on its grants-making process. Young investigators, post-docs, and students at all levels and staff are invited to help. Detailed information about the conference and the program is [here](#). To volunteer, click [here](#). Questions?

Contact Eric Schoch of IU Communications at [eschoch@iu.edu](mailto:eschoch@iu.edu) or 274-8205.

### **IUSM ReSEARCH Connect is online**

The IU School of Medicine has implemented a powerful new research tool for investigators. IUSM ReSEARCH Connect is a database system that enables IUSM researchers to identify new funding opportunities and potential collaborators within academia, industry, and the broader health sciences community. This resource helps investigators develop "bench-to-bedside" studies and foster novel areas of investigation, leading to strong translational and clinical applications. IUSM ReSEARCH Connect is an essential mechanism in promoting Indiana University and its clinical partners -- Indiana University Health, Eskenazi Health, and the Richard L. Roudebush VA Medical Center -- as international leaders in biomedical research and patient care. IUSM ReSEARCH Connect can be accessed at [www.experts.scival.com/indiana](http://www.experts.scival.com/indiana) or via the menu on the IU School of Medicine research Web page at [medicine.iu.edu/research](http://medicine.iu.edu/research).

### **Wanted: Pre-docs wishing to pursue a cancer research career**

Pre-doctoral students wishing to pursue a career in cancer research are encouraged to apply to the Translational Cancer Biology Training Program (TCBTP), which is designed to enhance the training received in any individual laboratory or department. Trainees are exposed to a broad range of cancer-related research, encompassing both basic and clinical aspects of the disease. CBTP pre-doctoral students fulfill the requirements of their individual basic science departments and complete the cancer biology minor. Pre-doctoral CBTP trainees attend both a basic science and a clinical seminar series, co-sponsored by the IU Simon Cancer Center, and participate and present in the monthly meeting of trainees and in the IU Simon Cancer Center's annual [Cancer Research Day](#).

Support for training pre-doctoral students is provided by the IU Simon Cancer Center. These CBTP stipends are available on a competitive basis for trainees conducting their research in the laboratory of a CBTP preceptor. Candidates must be U.S. citizens or permanent residents. Indiana University is an Affirmative Action/Equal Opportunity Employer. Minority applicants are encouraged to apply. The application deadline is April 16.

For full details and an application, visit <http://www.cancer.iu.edu/education/training/cbtp/>.