

# Frontiers of Cellular Imaging for Research and Education

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May 21-22, 2010  
Marquette University  
Department of Biological Sciences

FRIDAY, MAY 21<sup>st</sup>

SYMPOSIUM PRESENTATIONS

8:00 - 8:25 Continental Breakfast and sign-in  
8:25 - 8:30 Welcoming Remarks

**SESSION 1 PROBES AND INSTRUMENTATION**

8:30 - 9:15 **Dieter Klaubert, Ph.D.**  
Research & Development, Promega Biosciences  
*Novel Luciferins for Animal Imaging*

9:15 - 10:00 **Richik N. Ghosh, Ph.D.**  
Thermo Fisher Scientific  
*Improving the Drug Discovery Process through High Content Imaging*

10:00 - 10:30 Refreshment Break

10:30 - 11:15 **Hélène A. Benink, Ph.D.**  
Promega Corporation  
*Halo Tag Technology: A Protein Reporter System for Live Cell Imaging*

**SESSION 2 CELLULAR IMAGING I**

11:15 - 12:00 **David F. Albertini, Ph.D.**  
University of Kansas Medical Center  
*Analyzing Early Mammalian Development with Dynamic Imaging*

12:00 - 1:15 Lunch on your own

1:15 - 2:00 **Eduardo Rios, Ph.D.**  
Rush Medical College  
*Advances in Imaging of Ca<sup>2+</sup> Inside its Muscle Stores, and Control of its Movements by Photorelease from Novel "Cages"*

2:00 - 2:45 **Jingsong Zhou, Ph.D.**  
Rush Medical College  
*Loss of Mitochondrial Ca<sup>2+</sup> Regulation in Muscle of a Transgenic Model of Amyotrophic Lateral Sclerosis*

2:45 - 3:15 Refreshment Break

**SESSION 3 CELLULAR IMAGING II**

3:15 - 4:00 **Carolyn M. Ott, Ph.D.**  
NICHD, NIH  
*Live Cell Imaging Reveals Dynamic Movements of Cilia Membrane Proteins*

4:00 - 4:45 **Claudette M. St. Croix, Ph.D.**  
University of Pittsburgh  
*Visualization of Nitric Oxide-zinc Mediated Signaling Events in Pulmonary Endothelium*

4:45 - 5:30 **Simon C. Watkins, Ph.D.**  
Center of Biologic Imaging  
*High Speed Imaging in Immunology*

5:30 **Wrap-up and introduction of Saturday's Workshop**

SATURDAY, MAY 22<sup>nd</sup>

WORKSHOPS

8:00 - 8:30 Continental Breakfast and sign-in

8:30 - 10:30 Workshop 1 (Lab choice #1)

10:30 - 10:45 Refreshment Break

10:45 - 12:45 Workshop 2 (Lab choice #2)

12:45 - 1:45 Lunch provided

CHOICE OF TWO LABS A TO F

- Lab A** *Preparation for Mammalian Gametes and Embryos for Vital and Non-vital Imaging – Dr. Albertini*
- Lab B** *Methods of Ca<sup>2+</sup> Imaging in Skeletal Muscle – Dr. Rios and Zhou*
- Lab C** *Optical Imaging of Lung: a.) Multicolor 3D Imaging and Reconstruction of Fixed Lung Tissue; and b.) Live Cell Imaging of ROS in Pulmonary Endothelium – Drs. St. Croix and Watkins*
- Lab D** *Live Cell Imaging Methods Reveal Dynamics in Primary Cilia – Dr. Ott*
- Lab E** *Zebra Fish Magnetic Resonance Imaging (MRI) Using NMR – Drs. Cai and Sem*
- Lab F** *High Content Imaging Using Automated Fluorescence Microscopy – Drs. Ghosh and Radio*



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May 21-22, 2010  
Marquette University  
Department of Biological Sciences  
REGISTRATION FORM (DEADLINE IS MAY 10<sup>TH</sup>)

## FRIDAY PRESENTATIONS ONLY

Members of Industry      \$75.00 \_\_\_\_\_  
Faculty                      \$50.00 \_\_\_\_\_  
Students                     \$25.00 \_\_\_\_\_

## SATURDAY WORKSHOPS Additional fee

Members of Industry      \$175.00 \_\_\_\_\_  
Faculty                      \$100.00 \_\_\_\_\_  
Student                      \$50.00 \_\_\_\_\_

Friday participants who wish to participate in two workshops on Saturday are asked to rank order the lab preferences from 1 to 6. Labs are limited to 5-6 participants with selection based on date of payment receipt.

Lab A \_\_\_ Lab B \_\_\_ Lab C \_\_\_ Lab D \_\_\_ Lab E \_\_\_ Lab F \_\_\_

**Lab A** *Preparation for Mammalian Gametes and Embryos for Vital and Non-vital Imaging – Dr. Albertini*

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Make two separate checks payable to Marquette University

Mail checks and registration form to:

Ms. Gale Luster-Johnson  
Marquette University  
Dept. of Biological Sciences  
P.O. Box 1881, LS 109  
Milwaukee, WI 53201-1881

REGISTRATION DEADLINE IS MAY 10<sup>TH</sup>

For further information call:

Ms. Gale Luster-Johnson  
(414) 288-7356  
FAX: (414) 288-7357

email: [gale.luster-johnson@marquette.edu](mailto:gale.luster-johnson@marquette.edu)

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