

October 18-19 (Monday and Tuesday before the 7<sup>th</sup> IMGC Conference)

## WORKSHOPS ON MILK, LACTATION BIOLOGY and HIGH THROUGHPUT RNA SEQUENCING

Learn about lactation and mammalian genomics from the world's experts. Network among peers and start some lifelong collaborations!

Discounts for IMGC members and PhD students; also many tuition waiver prizes available to all.

### WORKSHOP ONE

#### Theory and Application of Lactation

Oct 18, 2010

8:00 - 8:30 a.m. Opening Talk

**8:30 - 9:15 Milk Composition**

Major and minor components of milk: variation across species

*Ian Mather, U Maryland*

**9:15 - 10:00 Developmental Anatomy, Histology**

The mammary gland in the cow, pig, rodent and human

*Russ Hovey, UC Davis*

10:00 - 10:15 Coffee Break

**10:15 - 11:15 Cell Biology of Milk Secretion**

*Ian Mather, U Maryland*

**11:15 - 12:15 Milk Lipid Synthesis**

Informatic and histologic approaches

*Peggy Neville, UC Denver*

12:00 - 1:00 Lunch Break

**2:00 - 5:00 Laboratory**

- Dissection of Cow Udder
- Biopsy of Cow Udder

**This will be a hands-on session that will include a live cow!!!**

### WORKSHOP ONE (cont.)

#### Theory and Application of Lactation

Oct 19, 2010 (morning)

8:30 - 9:00 a.m. Opening Talk

**9:00 - 9:45 Hormonal Regulation**

Mammary development and milk secretion

*Russ Hovey, UC Davis*

**9:45 - 10:30 Milk Composition and Mammary Evolution**

*Danielle Lemay, UC Davis*

10:30 - 10:45 Coffee Break

**10:45 - 11:00 Milk Components**

Nutritional and bioactive significance

*Bruce German, UC Davis*

**11:00 - 12:00 Special Guest Lecture**

Breast cancer and Mammary Biology,

*Sandy Borowski, UC Davis*

12:15 - 2:00 Lunch Break

**Location: Robert Mondavi Institute  
University of California, Davis, CA**

**Fees: Workshop One:** \$300, all inclusive  
(limited to 30 registrants)

**Workshop Two:** \$50, all inclusive

**Send an email to Andrea Thompson at [aehtompson@ucdavis.edu](mailto:aehtompson@ucdavis.edu) to register!**

**NOTE: Many prizes of tuition waivers are available. Send your CV to participate in the selection.**

### WORKSHOP TWO

#### Milk Functional Genomics Using High Throughput RNA Sequencing

Oct 19, 2010 (afternoon)

2:00 - 6:00 p.m.

**Introduction and Overview of RNA Sequencing**

*JF Medrano, UC Davis*

**RNA Extraction and Making Sequencing Libraries**

*Alma Islas, UC Davis*

**Sequencing and Data Pre-Processing**

*Charlie Nicolet,  
UCD Genome Center*

**Data Management and Analysis with Publically Available Software**

*Dawei Lin, UCD Genome Center*

**Data Analysis with CLC Biology Software**

*Gonzalo Rincon, UC Davis*

**RNA Sequencing and Bacterial Sequencing Applications**

*Gonzalo Rincon & David Sela,  
UC Davis*

**Conclusion**

*JF Medrano, UC Davis*

**Tour of the UCD Genome Center**