

# HMS Core Facilities Talk & Poster Session

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**The Tools & Technology Program  
AT HARVARD MEDICAL SCHOOL**

## **PROGRAM BOOKLET & POSTER GUIDE**

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**Thursday, June 20, 2013**

**Featured Talks | 3:00-4:00pm**

Armenise Amphitheatre

**Poster Session | 4:00-5:30pm**

Courtyard Cafe, WAB

## **-Featured Talks-**

Armenise Amphitheatre | 3:00-4:00pm  
210 Longwood Ave, Boston

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*"Cellular Analysis with CyTOF Mass Cytometry"*

**Christophe Benoist, MD, PhD**

Professor, Department of Microbiology & Immunobiology

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*"Image Analysis"*

**Hunter Elliott, PhD & Tiao Xie, PhD**

Co-Leaders, Image Data and Analysis Core (IDAC)

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*"Quantitative Multiplexed Proteomics"*

**Steve Gygi, PhD**

Professor, Department of Cell Biology

There will be limited time for questions following the talks.

Please save your questions for the poster session.

*\*Cores that gave a featured talk are marked with an asterisk on the map (Page 3) and on the list of posters and presenters (Pages 4-9).*

## **-Poster Session-**

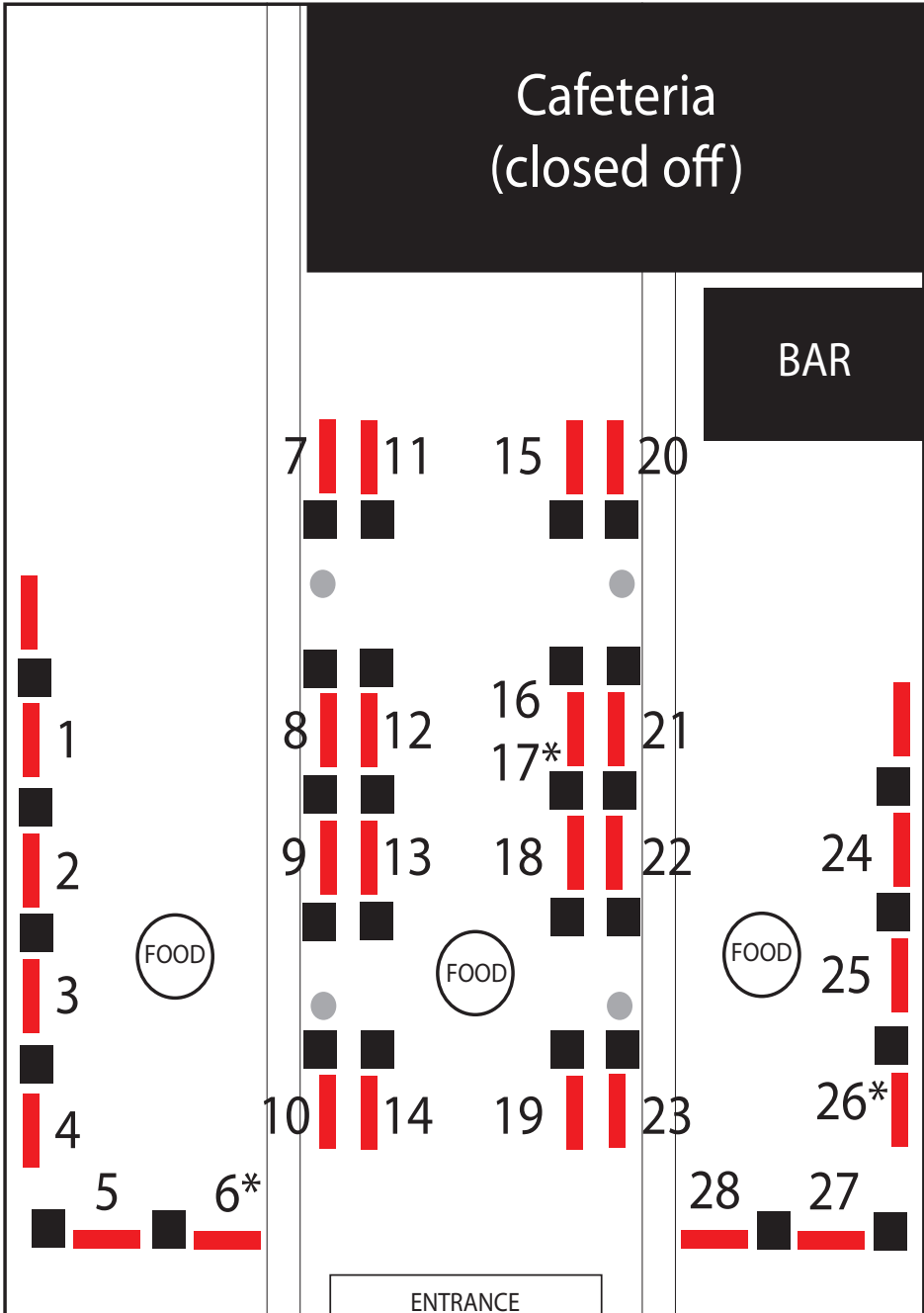
Courtyard Cafe | 4:00-5:30pm  
200 Longwood Ave, Boston

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### **Facilities Represented Include:**

- BCMP Structural Biology Grid (SBGrid) Computing Core and Software Consortium
- Biopolymers Facility
- DF/HCC DNA Resource Core
- The Drosophila RNAi Screening Center (DRSC) at Harvard Medical School
- eagle-i
- Harvard NeuroDiscovery Center (HNDC) Enhanced Neuroimaging Core
- Harvard NeuroDiscovery Center (HDNC) NeuroBehavior Laboratory Core
- HMS Electron Microscopy Facility
- HMS Microfluidics Facility
- HMS Mouse Imaging Core
- The ICCB-Longwood Screening Facility
- The Image and Data Analysis Core (IDAC)
- Imaging Solutions for Scientific Communication
- Longwood Medical Area CyTOF Core Facility
- NERCE's Biomolecule Production Core Laboratory
- Neurobiology Imaging Facility
- The Nikon Imaging Center (NIC) at Harvard Medical School
- The Small Molecule Mass Spectrometry Facility
- Systems Biology FACS Facility
- Systems Biology's Machine Shop
- Taplin Mass Spectrometry Facility
- Wyss Institute Imaging Core
- Wyss Institute Materials Characterization Core
- Wyss Institute Machine Shop / 3D Prototyping Core

## -Map of Posters-



*\*Cores that gave a featured talk are marked with an asterisk.*

## **-Posters & Presenters-**

The cores represented at the poster session are listed below numerically. Match the numbers below to the map on Page 3.

*\*Cores that gave a featured talk are marked with an asterisk.*

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### **1. Biopolymers Facility**

#### **Department of Genetics, Harvard Medical School**

*"Facility Overview, Stockroom and Oligo Programs"*

Presented by:

Katie Gallagher, Financial Manager, Biopolymers Facility

James Caffery, Stockroom Staff, Biopolymers Facility

### **2. Biopolymers Facility**

#### **Department of Genetics, Harvard Medical School**

*"Next Generation Sequencing, Sample Preparation and Single Cell Services"*

Presented by:

Robert Steen, Director, Biopolymers Facility

Michael Cicero, Core Technician, Biopolymers Facility

Kristin Waraska, Core Technician, Biopolymers Facility

### **3. Biopolymers Facility**

#### **Department of Genetics, Harvard Medical School**

*"Overview of Services at the Biopolymers Facility"*

Presented by:

Robert Steen, Director, Biopolymers Facility

Michael Cicero, Core Technician, Biopolymers Facility

Kristin Waraska, Core Technician, Biopolymers Facility

### **4. NERCE's Biomolecule Production Core Laboratory**

Presented by:

Robin Reed, PhD, Assistant Director of Biomolecule Production Lab

## **5. HMS Microfluidics Facility**

*"Microfluidic technology... within the reach of all HMS researchers and affiliates"*

Presented by:

Calixto Saenz, M.Sc., Microfluidics Core Manager

## **6. Taplin Mass Spectrometry Facility\***

**NEW: Thermo Fisher Center for Multiplexed Proteomics at Harvard Medical School\***

Presented by:

Steve Gygi, PhD, Professor, Cell Biology

Ross Tomaino, Associate Director, Mass Spectrometry Facility

## **7. DF/HCC DNA Resource Core**

*"CE Sequencing and Plasmid Repository Services"*

Presented by:

J. Wade Harper, PhD Director, DF/HCC DNA Resource Core

Li Chan, MA Operations Director, DF/HCC DNA Resource Core

Glenn Beeman, MA Platform Manager, DF/HCC DNA Resource Core

## **8. The Drosophila RNAi Screening Center (DRSC) at Harvard Medical School**

*"Drosophila RNAi screening and related services at the DRSC"*

Presented by:

Stephanie Mohr, PhD, Director, DRSC

## **9. The Drosophila RNAi Screening Center (DRSC) at Harvard Medical School**

*"Software tools and bioinformatics support for RNAi screens and related projects"*

Presented by:

Claire Hu, PhD, Bioinformatics, DRSC

## **10. eagle-i**

Presented by:

Richard Van Dyke Pearse, PhD, Research Associate in Clinical and Translational Research

## **11. BCMP Structural Biology Grid (SBGrid) Computing Core and Software Consortium**

*"Virtual screening with the ICCB-Longwood compound dataset"*

Presented by:

Piotr Sliz, PhD, Faculty Director, SBGrid

Paul Sanschagrin, PhD, Senior Research Systems Administrator, SBGrid

## **12. The ICCB-Longwood Screening Facility**

*"High throughput small molecule screening, siRNA screening, and lab automation resources at the ICCB-Longwood Screening Facility"*

Presented by:

Caroline Shamu, PhD, Director, ICCB-Longwood

Su Chiang, Assistant Director of Screening, NERCE/NRSB

Doug Flood, Lab Automation Specialist, ICCB-Longwood, NERCE/NSRB

Sean Johnston, Screening Facility Manager: Assay Implementation, ICCB-Longwood, NERCE/NSRB

Stewart Rudnicki, Screening Facility Manager: Instrumentation and Infrastructure, ICCB-Longwood, NERCE/NSRB

## **13. HMS Mouse Imaging Core**

*"Resources available in the new HMS in vivo Mouse Imaging Core"*

Presented by:

Stewart Rudnicki, Screening Facility Manager: Instrumentation and Infrastructure, ICCB-Longwood, NERCE/NSRB

## **14. Wyss Institute Materials Characterization Core**

Presented by:

Onye Ahanotu, Research Assistant

Jack Alvarenga, Research Assistant

Chris Johnson, Research Assistant

## **15. BCMP Structural Biology Grid (SBGrid) Computing Core and Software Consortium**

*"SBGrid: Collaborative support for research computing"*

Presented by:

Piotr Sliz, PhD, Faculty Director, SBGrid

Andrew Morin, PhD, Research Fellow, BCMP

Ben Eisenbraun, Scientific Software Specialist, SBGrid

Jason Key, PhD, Structural Biology Computing Scientist, SBGrid

## **16. Systems Biology FACS Facility**

*"Instrumentation and Services of the Systems Biology Flow Cytometry Facility"*

Presented by:

Jodene Moore, PhD, Director, Systems Biology FACS Facility

Stephanie Terrizzi, Flow Cytometry Research Assistant, Systems Biology FACS Facility

## **17. Longwood Medical Area CyTOF Core Facility\***

Presented by:

Jodene Moore, PhD, Director, Systems Biology FACS Facility

## **18. Systems Biology's Machine Shop**

Presented by:

Jason Marchionna, Machine Shop Lead

## **19. Wyss Institute Machine Shop / 3D Prototyping Core**

Presented by:

Martin Montoya-Zavala, Machine Shop Manager

## **20. HMS Electron Microscopy Facility**

Presented by:

Maria Ericsson, Core Facility Manager



## **21. Harvard NeuroDiscovery Center (HDNC) NeuroBehavior Laboratory Core**

*"COGNITIVE EFFICACY OF ANTI-PYROGLUTAMATE-3 ABETA MONO-CLONAL ANTIBODY 07/1 IN APP/PS1DE9 TRANSGENIC MICE"*

Barbara Caldarone<sup>1,2,3</sup>, Jeffrey L. Frost<sup>3</sup>, Martin Kleinschmidt<sup>4</sup>, Stephan Schilling<sup>4</sup>, Hans-Ulrich Demuth<sup>4</sup>, Cynthia A. Lemere<sup>2,3</sup>. 1. Harvard NeuroDiscovery Center, Mouse NeuroBehavior Laboratory Core, Boston, MA, USA; 2. Harvard Medical School, Boston, MA, USA; 3. Center for Neurologic Diseases, Brigham and Women's Hospital, Boston, MA, USA; 4. Probiodrug AG, Halle (Saale), Germany.

Presented by:

Barbara Caldarone, PhD, Instructor in Neurology, BWH

Jeffrey L. Frost, Senior Technical Research Assistant, BWH

## **22. Harvard NeuroDiscovery Center (HNDC) Enhanced Neuroimaging Core**

Presented by:

Lai Ding, Core Manager, HNDC

Daniel Tom, Senior Imaging Specialist, HNDC

## **23. Wyss Institute Imaging Core**

Presented by:

Garry Cuneo, Imaging Core Technician

Tom Ferrante, Imaging Core Technician

## **24. Imaging Solutions for Scientific Communication**

*"Poster Making for Large Format Printers"*

Presented by:

Beth Beighlie, Digital Imaging Coordinator

## **25. Neurobiology Imaging Facility**

Presented by:

Michelle Ocana, Senior Imaging Specialist and Core Facility Manager, Neurobiology Imaging Facility

Julie Ducharme, Imaging Technician, Neurobiology Imaging Facility

Luis Ortiz, Array Tomography Technician, Neurobiology Imaging Fac.

## **26. The Image and Data Analysis Core (IDAC)\***

*"Tired of manual quantification of your images? IDAC is here to provide automated image analysis service at your doorstep."*

Presented by:

Tiao Xie, Co-Leader, IDAC

Hunter Elliott, Co-Leader, IDAC

## **27. The Nikon Imaging Center (NIC) at Harvard Medical School**

Presented by:

Jennifer Waters, Director, NIC

Lara Petrak, Microscopy Specialist/Equipment Manager, NIC

Josh Rosenberg, PhD, Advanced Imaging Specialist, NIC

Lauren Piedmont, Microscopy Technician, NIC

## **28. The Small Molecule Mass Spectrometry Facility**

Presented by:

Sunia Trauger, PhD, Director, Small Molecule Mass Spectrometry Facility

**Thank you for attending the Core Facilities  
Talk and Poster Session!**

**Please send any comments or suggestions for future  
programmning to:  
[tntfacultycommittee@hms.harvard.edu](mailto:tntfacultycommittee@hms.harvard.edu)**

**We appreciate your feedback!**

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