

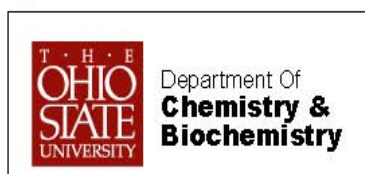
2015 Cellular, Molecular & Biochemical Sciences Training Program /Center for RNA Biology Annual Symposium is sponsored by:



We provide the core General Education Curriculum for all undergraduates and host nearly 80 majors. With 39 departments and schools, 20+ world-class research centers, and more than 2,000 faculty and staff members - we are a unique university community that encourages dynamic conversations, fosters broad collaborations, and creates an environment of lifelong learning.



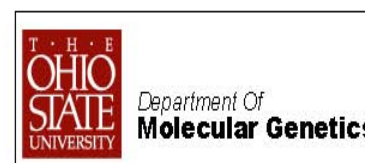
Ohio State University has a large concentration of research labs with interests in RNA research. These laboratories constitute an interdisciplinary group focused on the biochemistry, molecular biology, structure and function of RNA.



Chemistry and Biochemistry at Ohio State lead the country in education and research because of our vast resources, cutting-edge facilities, and outstanding faculty. We are consistently ranked as one of the best in the nation by the National Research Council and others



Molecular Microbiology provides an interface between academic molecular biology and real world applications in human health care and the environment. Modern molecular microbiology is already an exciting reality.



The faculty of the Molecular Genetics and the faculty of Plant Cellular and Molecular Biology have merged into a single department, "Molecular Genetics," bringing nearly all of the eukaryotic model system geneticists at OSU under a single administrative and educational unit.



The Department of Physics at the Ohio State University is one of the university's largest and most diverse departments. Department of Physics occupies the recently built Physics Research Building as well as instructional and advising space in Smith Laboratory, the former home of the department.



This is an exciting time here at Ohio State's College of Medicine. By every measure we are an organization on the move. Our newly developed Lead, Serve, Inspire (LSI) curriculum gives students the opportunity to work alongside expert faculty and staff at one of the nation's top academic medical centers.

Welcome to the 2015 Cellular, Molecular & Biochemical Sciences Training Program/Center for RNA Biology Annual Symposium

The Fourth Annual CMBP/CRB Symposium brings together faculty trainers, graduate students, postdoctoral researchers and undergraduates representing a wide spectrum of the Life Sciences at Ohio State. In its fourth year of funding, the NIH CMB Training Program includes faculty and trainees from five related molecular life sciences graduate programs: Biophysics, Microbiology, Molecular Cellular and Developmental Biology, Molecular Genetics, and the Ohio State Biochemistry Program. The RNA group at OSU has a long history of interaction and active collaboration. Members of the Center for RNA Biology represent about a dozen Departments throughout OSU. There are natural synergies between these two groups and this symposium is an opportunity not only to showcase the research of CMB Training Program and RNA Center members but also to foster new interactions.

The CMBP trainees and RNA Center Fellows have invited 3 internationally renowned speakers to participate in the symposium and are acting as their hosts. We are delighted to welcome **Martha Fedor, The Scripps Research Institute, Phillip Zamore, University of Massachusetts Medical School, and Jerry Workman, Stowers Institute for Medical Research.**

We are grateful to our sponsors, who are listed on the previous page. Without their generous support, as well as the time and efforts of our program assistants, Thomas Hyle (CMBP) and Zack Mikesell (CRB), this event would not be possible.

We hope you enjoy an exciting day of both scientific and informal interactions.

Sincerely,
Michael Ibba and Karin Musier-Forsyth, CMBP Training Grant Co-Directors

**Cellular, Molecular & Biochemical Sciences Training Program/Center for RNA Biology
Annual Symposium**

Ohio Union, US Bank Conference Theater and Cartoon Room

May 12, 2015

8:15-8:50 AM Registration and Breakfast: Cartoon Room

8:55-9:00 AM Opening Remarks: US Bank Conference Theater
Karin Musier-Forsyth, Co-Director CMBP Training Grant

9:00-9:45 AM Martha Fedor, The Scripps Research Institute
Introduced by Alice Duchon, RNA Center Fellow, OSBP
"RNAs as global metabolic regulators"

Trainee Session: Jane Jackman, Session Chair

9:45-10:05 AM Douglas Cheung (CMBP trainee, MCDB, Croce lab)
*"Targeting CDKs with PHA-848125 in estrogen
receptor negative breast cancer"*

10:05-10:25 AM Nicholas Long (CMBP trainee, OSBP, Magliery lab)
*"Characterization and selection of biophysically optimized antibody
fragments for enhanced in vivo tumor imaging"*

10:25-11:25 AM Poster Session (Cartoon Room)

Trainee Session (cont'd): Dan Schoenberg, Session Chair

11:30-11:50 PM Rebecca Williams-Wagner (RNA Center Fellow, Microbiology, Henkin lab)
"Function and regulation of the Bacillus subtilis tyrZ gene"

11:50-12:10 AM Tammy Bullwinkle (Postdoctoral Fellow, Ibba lab)
*"Mixed signals; translational quality control is critical for bacterial responses
to amino acid stress"*

12:15-1:10 PM Lunch, Cartoon Room

1:15-2:00 PM Phillip Zamore, University of Massachusetts Medical School
Introduced by Pearson Maugeri, CMBP trainee, Molecular Biophysics
"Mechanisms and functions of RNA silencing pathways."

2:00-2:25 PM Anita Hopper, Molecular Genetics, OSU
"Listen to the cells: tRNA subcellular trafficking"

2:25-2:45 Coffee break

2:45-3:10 Karin Musier-Forsyth, Chemistry and Biochemistry, OSU
"Unexpected connections of aminoacyl-tRNA synthetases to HIV"

3:10-3:55 Jerry Workman, Stowers Institute for Medical Research
Introduced by Tami Coursey, CMBP trainee, MCDB
"Chromatin modifications for signaling and transcription"

3:55-4:00 PM Closing Remarks
Michael Ibba, Co-Director CMBP Training Grant

4:00-5:30 PM Reception/Posters (Cartoon Room)