

CF – Metabolomics Annual Program Meeting

University of Michigan, Ann Arbor

Participants: Representatives from the laboratories and cores funded through the Program, NIH project scientists, Common Fund working group members, and EEC members.

Friday, September 27, 2013
Auditorium, Kellogg Eye Center
1000 Wall Street, Ann Arbor, MI 48105

12:00 – 1:00 Registration

Session: Introduction – overall Program vision and goals and specific meeting goals

1:00 – 1:15 Introduction/overview/general info (Phil Smith)

Session: Technology Development – report on goals and progress (David Balshaw, moderator)

1:15 – 3:15 Technology development R01s (15 min presentation + 5 min questions)

Evaluating the impact of metabolite extraction and separation on metabolomics data

Andrew Patterson, Pennsylvania State University – University Park

Slow Magic Angle Spinning NMR Metabolomics

Jian Zhi Hu, Battelle Pacific Northwest Laboratories

Mass Spectrometry/Ion Mobility Based Methods for High Throughput Lipidomics Analysis

Robert Barkley, Joseph Hankin, Robert Murphy, University of Colorado Denver

Multidimensional Metabolite Characterization with Ion Mobility Separations and Mass Spectrometry

Erin S. Baker, Battelle Pacific Northwest Laboratories

Chemoselective Platform for Large-Scale Metabolomics

Teresa W-M Fan, University of Louisville

Automating a Platform Towards High-Throughput Analysis of the Total Metabolome

Gary Joseph Patti, Washington University

3:15 – 4:15 Discussion of overall state of technology and needs in metabolomics

4:30 – 5:30 Keynote speaker (Michael Snyder)

5:30 Poster session/reception

Saturday, September 28, 2013
Auditorium, Kellogg Eye Center
1000 Wall Street, Ann Arbor, MI 48105

7:30 – 8:00 Registration

Session: RCMRCs (Padma Maruvada, moderator)

Current RCMRC Annual Reports (goals, infrastructure, activities, highlights)

8:00 – 8:40 University of Michigan (Charles Burant)
8:40 – 9:20 University of California, Davis (Oliver Fiehn)
9:20 – 10:00 Research Triangle Institute (Susan Sumner)

New RCMRCs (descriptions, planned activities and infrastructure)

10:00 – 10:20 University of Florida (Arthur Edison)
10:20 – 10:40 University of Kentucky (Rick Higashi)
10:40 – 11:00 Mayo Clinic (K. Sreekumar Nair)

11:00 – 12:00 Discussion of overall composition, outstanding issues

12:00 – 1:00 Lunch

Session: Metabolomics Training and Capacity-Building Related Activities (Barbara Spalholz, moderator)

1:00 – 1:20 Administrative supplement program report and discussion (Barbara Spalholz)
1:20 – 1:50 Overview of K award program (Dick Okita & K01s)
1:50 – 2:20 R25 courses and coordination with U24 and DRCC resources (Dick Okita & K25s)

Session: Data Repository and Coordinating Center Annual Report (Art Castle, moderator)

2:20 – 3:20 DRCC presentation (data sharing requirements, goals, metadata requirements, reports, infrastructure, program coordination and discussion)
3:20 – 3:35 Overview of Reference standards for metabolomics and introduction of Metabolite Synthesis contract (Pothur Srinivas)
3:35 – 3:55 Metabolite Synthesis (RTI)
3:55 – 4:15 Metabolite Synthesis (SRI)
4:15 – 5:00 P/F grants (Padma Maruvada)
5:00 – 5:15 Closing remarks (Charles Burant)