



MEETING AGENDA

Integrating Exposomics into the Biomedical Enterprise

December 3-6, 2023

The Banbury Center, Lloyd Harbor, New York

This meeting was organized by

Gary W. Miller, Columbia University

L. Michelle Bennett, Roger Schwarz & Associates, LLC

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Columbia University

MBX Capital

SUNDAY, DECEMBER 3

Afternoon Arrivals and check-in at Robertson House

6:00 pm Reception and dinner

MONDAY, DECEMBER 4

7:15 am Breakfast

8:30 am **Welcoming Remarks and Introduction**

Rebecca Leshan, The Banbury Center

Gary W. Miller, Columbia University

L. Michelle Bennett, Roger Schwarz & Associates, LLC

8:50 am **SESSION 1: Setting the Stage**

Chairperson: L. Michelle Bennett, Roger Schwarz & Associates, LLC

L. Michelle Bennett, Roger Schwarz & Associates, LLC

Gary W. Miller, Columbia University

Group Discussion with Group Exercise



9:45 am SESSION 2: The Biomedical Enterprise: Definition for this Workshop

Chairperson: Pamela Lein, University of California, Davis

Gary W. Miller, Columbia University

Jana Klánová, Masaryk University, RECETOX

Group Discussion

10:50 am SESSION 3: An Operational Definition for Exposomics is Needed

Chairperson: Chirag Patel, Harvard University

L. Michelle Bennett, Roger Schwarz & Associates, LLC

Robert Barouki, INSERM

Group Discussion

11:30 am SESSION 4A: Developing an Operational Definition for Exposomics I

Chairperson: Robert Wright, Icahn School of Medicine at Mount Sinai

Group Exercise

Seeding Breakout Groups

12:20 pm Luncheon

2:10 pm SESSION 4B: Developing an Operational Definition for Exposomics I (continued)

Breakout Groups

3:55 pm SESSION 4C: Developing an Operational Definition for Exposomics I (continued)

Chairperson: Cavin Ward-Caviness, U.S. Environmental Protection Agency (EPA)

Breakout Groups Reporting

Group Discussion

5:30 pm DAY ONE WRAP-UP

Chairperson: Gary W. Miller, Columbia University

TUESDAY, DECEMBER 5

7:15 am Breakfast

8:30 am DAY TWO OPENER

Chairperson: L. Michelle Bennett, Roger Schwarz & Associates, LLC

Chirag Patel, Harvard University

Group Discussion with Group Exercise

David A. Jett, National Institute of Neurological Disorders and Stroke, NIH



9:10 am SESSION 5A: Developing an Operational Definition for Exposomics II

Chairperson: Chirag Patel, Harvard University

Gary W. Miller, Columbia University

L. Michelle Bennett, Roger Schwarz & Associates, LLC

Breakout Groups

10:55 am SESSION 5B: Developing an Operational Definition for Exposomics II (continued)

Chairperson: Dana Dolinoy, University of Michigan

Breakout Groups Reporting

Group Discussion

Gary W. Miller, Columbia University

L. Michelle Bennett, Roger Schwarz & Associates, LLC

Thomas Metz, Pacific Northwest National Laboratory

Group Discussion

2:35 pm SESSION 6: Identifying the Components of the Biomedical Enterprise that will Benefit Most from Exposomics

Chairperson: Roel Vermeulen, Utrecht University

Panel Q&A:

Krystal Pollitt, Yale University

Dana Dolinoy, University of Michigan

Peng Gao, University of Pittsburgh

Robert Wright, Icahn School of Medicine at Mount Sinai

Cavin Ward-Caviness, U.S. Environmental Protection Agency (EPA)

Group Discussion

L. Michelle Bennett, Roger Schwarz & Associates, LLC

3:40 pm SESSION 7: Identifying the Components of the Biomedical Enterprise that will Benefit Most from Exposomics

Chairperson: David Balshaw, National Institute of Environmental Health Sciences, NIH

Breakout Groups

Breakout Groups Reporting

Group Discussion

5:25 pm DAY TWO WRAP-UP

Chairperson: Gary W. Miller, Columbia University

6:00 pm Reception and dinner



WEDNESDAY, DECEMBER 6

7:15 am Breakfast

8:30 am **DAY THREE OPENER**

Chairperson: L. Michelle Bennett, Roger Schwarz & Associates, LLC

Gary W. Miller, Columbia University

Group Exercise

Arcot Rajasekar, University of North Carolina at Chapel Hill

9:10 am **SESSION 8A: Solutions for Conceptual and Technical Innovations: Developing Impossible Solutions to Solve Challenges in Measuring the Exposome**

Chairperson: L. Michelle Bennett, Roger Schwarz & Associates, LLC

Guidance for Breakout Groups

Breakout Groups

10:20 am **SESSION 8B: Solutions for Conceptual and Technical Innovations: Developing Impossible Solutions to Solve Challenges in Measuring the Exposome (continued)**

Chairperson: L. Michelle Bennett, Roger Schwarz & Associates, LLC

Breakout Groups Reporting

Group Discussion

11:05 am **MEETING WRAP-UP, NEXT STEPS**

Chairpersons: Gary W. Miller; L. Michelle Bennett

Pamela Lein, University of California, Davis

Group Discussion

12:25 pm Luncheon

1:40 pm Participant Departures



PARTICIPANTS

David Balshaw, National Institute of Environmental Health Sciences, NIH

Robert Barouki, INSERM

L. Michelle Bennett, Roger Schwarz & Associates, LLC

Gurdane Bhutani, MBX Capital

Dana Dolinoy, University of Michigan

Peng Gao, University of Pittsburgh

David Jett, National Institute of Neurological Disorders and Stroke, NIH

Margaret Karagas, Geisel School of Medicine at Dartmouth

Jana Klánová, Masaryk University, RECETOX

Pamela Lein, University of California, Davis

Shuzhao Li, The Jackson Laboratory

Thomas Metz, Pacific Northwest National Laboratory

Gary Miller, Columbia University

Yevgeniya Nusinovich, Science

Chirag Patel, Harvard University

Krystal Pollitt, Yale University

Arcot Rajasekar, University of North Carolina at Chapel Hill

Fenna Sillé, Johns Hopkins University, Bloomberg School of Public Health

Anne Thessen, University of Colorado Anschutz

Sophie Thuault-Restituto, Columbia University

R.C.H. (Roel) Vermeulen, Utrecht University

Cavin Ward-Caviness, U.S. Environmental Protection Agency (EPA)

Robert Wright, Icahn School of Medicine at Mount Sinai