Powering Research Through Innovative Methods for Mixtures in Epidemiology (PRIME) Program Grantee Meeting
National Institute of Environmental Health Sciences

Monday, April 29, 2019

7:15 a.m.  Bus departs from hotel

8:00 a.m. – 8:30 a.m.  Registration and Poster/Infographic Hanging  Lobby

8:30 a.m. – 8:50 a.m.  Welcome  Rodbell ABC
Linda Birnbaum, Director, NIEHS

8:50 a.m. – 9:00 a.m.  Background of PRIME and review meeting goals
Bonnie Joubert, Population Health Branch/DERT
PRIME Program Program Director

Grantee Presentations

9:00 a.m. – 12:00 p.m.  Project presentations from each PI/team
Each PI and/or team will present an overview of the project concept and aims. Presentations can cover challenges/issues currently addressing, preliminary results, demos if desired, and related work in progress. Each presenter should allow 5-10 minutes for Q&A; additional questions/comments can be addressed in the afternoon panel discussion. This session is open to public attendance.

9:00 a.m. – 9:30 am  Methods for data integration and risk assessment for environmental mixtures
Chris Gennings, Icahn School of Medicine at Mt. Sinai
Brent Coull, Harvard T.H. Chan School of Public Health

9:30 a.m. – 10:00 am  Development and testing of response surface methods for investigating the epidemiology of exposure to mixtures
Thomas Webster, Boston University

10:00 a.m. – 10:30 am  Innovative methodologic advances for mixtures research in epidemiology
Mary Ellen Turyk, University of Illinois at Chicago
Hua Yun Chen, University of Illinois at Chicago

10:30 a.m. – 10:45 a.m. Break

10:45 a.m. – 11:15 a.m.  Bringing modern data science tools to bear on environmental mixtures
Marie Lynn Miranda, Rice University

11:15 a.m. – 11:45 a.m.  Principal component pursuit to assess exposure to environmental mixtures in epidemiologic studies
Marianthi-Anna Kioumourtzoglou, Columbia University

11:45 a.m. – 12:15 p.m.  Structured nonparametric methods for mixtures of exposures
David Dunson, Duke University
12:15 p.m. – 1:15 p.m. Lunch

1:15 p.m. – 2:15 p.m. Open Discussion
Q & A for PRIME PIs and general discussion

2:15 p.m. – 4:00 p.m. Grantee Poster Session/Infographic Showcase
Poster presentations from trainees and/or PIs as well as infographics for each project will be displayed with opportunities for discussion between PRIME grantees and meeting attendees.

4:30 p.m. Transport to hotel, if needed

6:00 p.m. Dinner

Tuesday, April 30, 2019
PRIME Grantees and NIEHS Extramural Staff

7:15 a.m. Bus departs from hotel

8:00 a.m. – 8:30 a.m. Registration/Logistics

8:30 a.m. – 9:00 a.m. Recap of Day 1 and charge for Day 2
Gwen Collman, Director, Division of Extramural Research and Training (DERT)

9:00 a.m. – 12:00 p.m. Closed discussion
Grantees and NIEHS Extramural Staff
Session topics include:
- Work in progress
- Challenges of methods
- Power calculations for mixtures; study design considerations
- Opportunities for collaboration
- Cross-training of staff/trainees across projects
- Resource sharing and dissemination of results
- Cross validation, comparison of methods, and synthesis of methods (e.g., decision tree or other strategies for methods selection)
- Future directions

12:00 p.m. – 1:00 p.m. Lunch

1:00 p.m. – 2:00 p.m. Open Discussions

2:00 p.m. Shuttle to the airport