

Gene x Environment x Development Interactions (GEDI) NIDA Strategic Planning Workgroup

June 9, 2015

Workgroup Meeting 4 of 5

Co-Chairs:

Naimah Weinberg, M.D. (NIDA)

Jonathan Pollock, Ph.D. (NIDA)

GEDI Work Group Members

NAME	AFFILIATION
WORKGROUP CHAIRS	
Naimah Weinberg, MD	NIDA
Jonathan Pollock, PhD	NIDA
EXTRAMURAL WORKGROUP MEMBERS	
Danielle Dick, PhD	Virginia Commonwealth University
Margaret Daniele Fallin, PhD	Johns Hopkins Bloomberg School of Public Health
Hugh Garavan, PhD	The University of Vermont
John Rice, PhD	Washington University School of Medicine
E. Jane Costello, PhD	Duke University Center of Developmental Epidemiology
William G Iacono, PhD	University of Minnesota
Kenneth Kendler, MD	Virginia Commonwealth University
Eric Johnson, PhD	RTI International
Gustavo Turecki, MD, PhD	McGill University
NIDA STAFF	
Maureen Boyle, PhD	NIDA
Hal Gordon, PhD	NIDA
Raul Mandler, MD	NIDA
Michele Rankin, PhD	NIDA
Joni Rutter, PhD	NIDA
John Satterlee, PhD	NIDA

Agenda

- Introductions/Identification of participants
- May 26 meeting summary - approval
- Discussion of GxExD research scientific challenges and priorities
- Action Items:
 - Discuss cross-cutting priorities
 - Timeline for finalizing GEDI proposal – changing WebEx meeting date, new due dates for edits, etc.
- 5 Minute Public Comment Period
- Adjourn

Summary of Last Meeting

May 26, 2015

- In-depth discussions were conducted for items 3-5 of the five consensus research priorities identified by work group members (see below)
- Initial drafts for each research priority were generated by NIDA staff and assigned to the following GEDI work group members for initial editing:
 1. Improved phenotyping – [William Iacono](#)
 2. Improved methods for gene identification – [John Rice](#)
 3. Epigenetic approaches – [Gustavo Turecki](#)
 4. Deeper characterization of the environment – [Jane Costello](#)
 5. Integration of animal and human studies – [work group](#)
- Cross-cutting priorities (training, statistical methods, etc.) will be addressed at today's WebEx Event

Slide 5 Scientific challenges and priorities for GxExD research - topics for discussion

- **Consensus priorities:**
 - *Improved phenotyping – discussed May 12*
 - *Improved methods for gene identification – discussed May 12*
 - *Epigenetic approaches – discussed May 26*
 - *Deeper characterization of the environment – discussed May 26*
 - *Integration of animal and human studies – discussed May 26*
- **Cross-cutting challenges and priorities:**
 - **Data issues**
 - **Statistical methods**
 - **Training**
 - **Sex and gender issues**
 - **Leveraging technology and innovations from other fields**
- **For each of these, address:**
 - Why is this important?
 - How can this be accomplished? (FOAs? Supplements?)
 - What resources are needed to accomplish this?

Scientific challenges and priorities for GxExD research – **Data Issues**

- Data generated by GxExD research needs to be
 - Shared
 - Integrated
 - harmonized
- **Address:**
 - Why is this important?
 - How can this be accomplished? (FOAs? Supplements?)
 - What resources are needed to accomplish this?
 - Benchmarks for success?

Slide 7

Scientific challenges and priorities for GxExD research – **Statistical Methods**

- More robust statistical methods need to be applied
- **Address:**
 - Why is this important?
 - How can this be accomplished? (FOAs? Supplements?)
 - What resources are needed to accomplish this?
 - Benchmarks for success?

Cross-cutting Themes to Consider During Strategic Planning

- The workgroup should also consider these cross cutting themes as appropriate
 - **Training needs** (training of clinicians common theme in RFI comments)
 - Addressing **sex and gender issues**
 - How to **leverage technology advances**
 - **Leveraging innovations from other fields**
- **Address:**
 - Why is this important?
 - How can this be accomplished? (FOAs? Supplements?)
 - What resources are needed to accomplish this?
 - Benchmarks for success?

Reminder: Workgroup Charge

- Develop strategic priorities for increasing our understanding of gene x environment x development interactions in substance use research.
 - Identify measurable objectives for each priority
 - Specify benchmarks for gauging progress toward each objective
- Deliverable: 3-5 page summary of recommendations for NIDA on GEDI research for the next 5 years
- Completion date: by Friday June 26th

Meeting Wrap-up

- Action items for next meeting:
 - **Proposed changes to WebEx and proposal finalization:**
 - Provide edits on entire Proposal by **COB June 15, 2015**
 - Conduct final WebEx on **Tuesday June 16, 3-4 pm EDT**
 - Perform final edits via email until **June 23, 2015**
 - Submit finalized proposal to NIDA on **June 26, 2015**
 - Please email all edited documents to NIDAOSPCPlanning@mail.nih.gov or upload to Dropbox
- Public comment period – 5 minutes
- Adjourn

***Next Meeting – 3:00-4:00 pm EDT,
Tuesday, June 16, 2015 (group approval?)**