June 9, 2015

Workgroup Meeting 4 of 5

Co-Chairs:
Naimah Weinberg, M.D. (NIDA)
Jonathan Pollock, Ph.D. (NIDA)
# GEDI Work Group Members

<table>
<thead>
<tr>
<th>NAME</th>
<th>AFFILIATION</th>
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<td><strong>WORKGROUP CHAIRS</strong></td>
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<td>Naimah Weinberg, MD</td>
<td>NIDA</td>
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<td>Jonathan Pollock, PhD</td>
<td>NIDA</td>
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<td><strong>EXTRAMURAL WORKGROUP MEMBERS</strong></td>
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<td>Danielle Dick, PhD</td>
<td>Virginia Commonwealth University</td>
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<td>Margaret Daniele Fallin, PhD</td>
<td>Johns Hopkins Bloomberg School of Public Health</td>
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<td>Hugh Garavan, PhD</td>
<td>The University of Vermont</td>
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<td>John Rice, PhD</td>
<td>Washington University School of Medicine</td>
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<td>E. Jane Costello, PhD</td>
<td>Duke University Center of Developmental Epidemiology</td>
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<td>William G Iacono, PhD</td>
<td>University of Minnesota</td>
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<td>Kenneth Kendler, MD</td>
<td>Virginia Commonwealth University</td>
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<td>Eric Johnson, PhD</td>
<td>RTI International</td>
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<td>Gustavo Turecki, MD, PhD</td>
<td>McGill University</td>
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<td><strong>NIDA STAFF</strong></td>
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<td>Maureen Boyle, PhD</td>
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<td>Hal Gordon, PhD</td>
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<td>Raul Mandler, MD</td>
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<td>Michele Rankin, PhD</td>
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<td>Joni Rutter, PhD</td>
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<td>John Satterlee, PhD</td>
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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
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?
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
    [NIDAOSPCPlannning@mail.nih.gov](mailto:NIDAOSPCPlannning@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?)*