



NIH Council of Councils DPCPSI Update September 5, 2014

James M. Anderson, MD, PhD

Director

Division of Program Coordination, Planning, and Strategic Initiatives

Plan for the day

- 8:20 Announcements and Updates
- 9:15 KOMP2: Update and Envisioning a Possible Second Phase
- 10:30 Remarks by the NIH Deputy Director
- 11:15 Enhancing Reproducibility
- 12:00 Pick up Lunch
- 12:15 Stimulating Peripheral Activity to Relieve Conditions (SPARC)
- 1:00 Closed Session: Review of Grant Applications
- 2:00 Review and Vote on Council of Councils Operating Procedures
- 2:10 NIH-sponsored Core Activities
- 2:30 Reflections from Members Rotating off the Council of Councils
- 3:15 Early Independence Award Process Evaluation and Discussion
- 3:45 High-End Instrument Funding Opportunity Announcement
- 4:15 Adjourn

Search: NIH Associate Director for Behavioral and Social Sciences Research and Director OBSSR

1. Coordinates and develops NIH policies, goals, and objectives pertaining to behavioral and social sciences research
2. Serves as a liaison between the NIH and the biomedical research community on matters pertaining to behavioral and social sciences research
3. Advises NIH senior leadership on the role of human behavior in the development of health, prevention of disease, and therapeutic intervention
4. Directs and promotes new research areas in the behavioral and social sciences

<http://www.jobs.nih.gov/vacancies/executive/obssrd.htm>

Search Committee: NIH Associate Director for Behavioral and Social Sciences Research, Director OBSSR

Tentative Timeline and Process

1. Vacancy Announcement
Published

Aug. 1st – Oct. 1st, 2014

2. Applications Reviewed

Fall, 2014

3. Candidates
Recommended to
Dr. Collins

Mid-January, 2015

Search Committee Co-Chairs

1. Richard Hodes, MD

Director, NIA

2. Janine Clayton, MD

Director, ORWH

Charge: Scientific Management Review Board's Working Group on Pre-College Engagement in Biomedical Sciences

To recommend ways to optimize NIH's pre-college programs and initiatives that both align with the NIH mission and ensure a continued pipeline of biomedical science students and professionals

Objectives: Working Group on Pre-College Engagement in Biomedical Sciences

1. Examine the evidence base for successful approaches for pre-college biomedical science programs
2. Identify the attributes, activities, and components of effective pre-college biomedical science programs
3. Identify those points in the pre-college biomedical workforce pipeline where NIH's efforts could be applied most effectively
4. Define ways for NIH to improve the evidence base for effective pre-college biomedical science programs

Membership: Working Group on Pre-College Engagement in Biomedical Sciences

Non-Federal Members

1. Clyde W. Yancy, MD
Chair
2. Nancy C. Andrews, MD, PhD
3. Norman Augustine
4. Lee E. Babiss, PhD
5. Michael A. Marletta, PhD
6. Gilbert S. Omenn, PhD

Federal Members

1. Josephine P. Briggs, MD
2. Gary H. Gibbons, MD
3. Alan E. Guttmacher, MD
4. Stephen I. Katz, MD, PhD
5. Roderic I. Pettigrew, PhD, MD

New Funding Opportunity Announcements - Serious STEM Games for Pre-College and Informal Science

PAR-14-325 and 326: SBIR/STTR STEM games (R43/R44 and R41/R42) just published!

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-325.html>

<http://grants.nih.gov/grants/guide/pa-files/PAR-14-326.html>

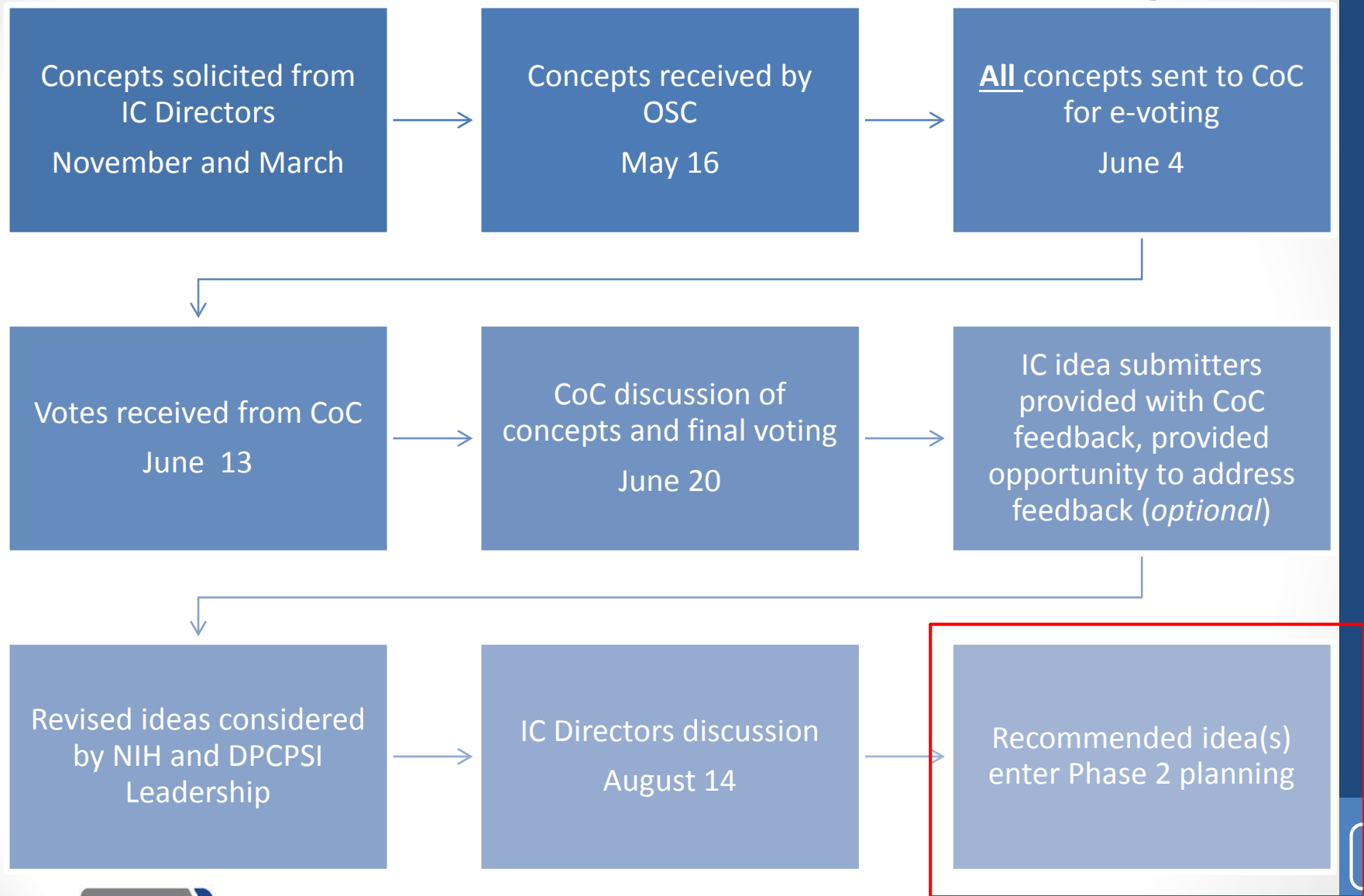
FOA objectives (SBIR/STTR funding):

- Translation of classroom or science museum STEM curricula into serious STEM games with focus on biology and medicine.
- Complementing teacher's professional development and improve student achievement, career aspirations and community health literacy.

Serious games = Bridging technology that converts gaming from a social pastime to a powerful educational tool that challenges students with game-based problem solving, conceptual reasoning and goal-oriented decisions.

STEM = Science, Technology, Engineering and Mathematics

Process for New FY16 Common Fund Programs



Phase 2 Strategic Planning: Enabling Exploration of the Eukaryotic Epitranscriptome (E4)

This program aims to characterize chemical modifications to RNA molecules (the “epitranscriptome”) and explore the role of these modifications in RNA function and, ultimately, in health and disease.

Program Goals:

1. Generate tools/technologies to monitor and manipulate eukaryotic RNA modifications
2. Survey the diversity of known RNA modifications; discover previously unknown modifications/modifying enzymes
3. Generate a Mammalian EpiRNA Catalog
4. Develop computational strategies to predict the presence of RNA modifications
5. Explore the biogenesis and mechanistic functions of modified RNAs
6. Develop small molecule modulators as probes and potential therapies

CoC will be updated and can provide additional input at January meeting

Science of Behavior Change FY 2015 – 2019

1. **First phase of SOBC (FY 2010-2014):** Research on initiation, personalization, and maintenance of behavior change.
2. **Second phase of SOBC (FY 2015-2019):** Mechanistically-focused experimental approach to behavior change, focused on adherence to medical regimens and other high priority health behaviors.
 - Initiative 1: to explore behavioral intervention targets that play a putative role in behavior change, have clear potential to be measured, and have a plausible intervention strategy.
 - Initiative 2: to support activities to inform a mechanistic approach to adherence interventions research
 - Initiative 3: to facilitate transition of SOBC advances to NIH ICs and the behavior change field.



OSC: Upcoming Scientific Meetings and Workshops

1. Single Cell Analysis Public Workshop
April 20-21, 2015: Bethesda, Maryland
2. High Risk High-Reward Symposium
December 15-17, 2014: Natcher Conference Center, NIH
3. Physical Activity Workshop
October 30-31, 2014: Natcher Conference Center, NIH

The America COMPETES Act

Federal Challenges

- America Creating Opportunities to Meaningfully Promote Excellence in Technology, Education, and Science (COMPETES), 2010 Reauthorization Act
 - Provides agencies with the authority to conduct Challenges.
- Challenges spur innovation, solve problems, and advance our core mission
- Offer a monetary prize for reaching a goal
- Pay only for results
- Do not predetermine how the goal will be achieved

Single Cell Analysis Challenge

“Follow that Cell”

1. Goal: To identify novel robust methods for detecting and assessing changes in a single cell's behavior and function over time
2. Phase I \$100K: A written proposed solution describing a novel method for analyzing the dynamic states of individual cells over time

Submissions due December 15, 2014

3. Phase II \$400K: Successful generation of time course measurements from a single cell based on the Phase I solution

Submissions due March 30, 2017

ORIP hosts the 10th Comparative Medicine Resource Directors Meeting

August, 2014

- Purpose:
 - Increase collaborations and sharing among DCM-funded Resources
 - Identify resource-related scientific advances on evolving animal-human correlations, emerging technologies, and reproducibility in animal models
- Attendees:
 - 61 Resource Directors and Personnel
 - 30 NIH staff
- Recommendations:
 - Improve data sharing across Resources and with the research community
 - Phenomics (e.g. Ontologies across species)
 - Future of centers

Merital – Present and Future Challenges and Opportunities Regarding Development of Veterinarian Scientists: July 31, 2014

1. Purpose:

Identify hurdles and solutions in recruiting, training, and retaining veterinarian scientists

2. Attendees:

34 training directors and staff

3. Recommendations:

- A. Improve data sharing and pooling across training programs
- B. Promote interdisciplinary training
- C. Expand strategies to fund training/career development programs through other ICs and organizations
- D. Implement reproducibility training in programs

4. Outcomes:

- A. Final report in preparation
- B. Journal publication in preparation

ORIP: Upcoming Scientific Meetings and Workshops

1. 32nd Annual Symposium on Nonhuman Primate Models for AIDS

November 11 – 14, 2014: Portland, Oregon

2. 7th Aquatic Animal Models of Human Disease Conference

December 14 – 18, 2014: Lost Pines, Texas

Proposed Workshop on Efficiency of Research Core Facilities

1. Goal: To Identify Obstacles and Solutions that will improve Core Facility efficiency at US Institutions
2. Attendees: Research Deans and Core Administrators at research-intensive Colleges and Universities
3. Date: Saturday, March 31, 2015
 Preceding the Annual Association of Biomolecular Research Facilities Meeting

ODP and ODS: Upcoming Scientific Meetings and Workshops

1. Pathways to Prevention Workshop: The Role of Opioids in the Treatment of Chronic Pain
September 29 – 30, 2014: Natcher Conference Center, NIH
2. Vitamin D: Moving Toward Evidence-based Decision Making in Primary Care Conference and Webinar
December 2 – 3, 2014: Natcher Conference Center, NIH
3. Nutritional Interventions in Primary Mitochondrial Disorders: Developing an Evidence Base
December 2 – 3, 2014; Neurosciences Center, NIH
4. Pathways to Prevention Workshop: Advancing the Research on Myalgic Encephalomyelitis/Chronic Fatigue Syndrome
December 9 – 10, 2014: Natcher Conference Center, NIH

ORWH and OBSSR Upcoming Scientific Meetings and Workshops

1. ORWH Methods and Techniques for Integrating the Biological Variable Sex in Preclinical Research Workshop
October 20, 2014: Porter Neuroscience, NIH
2. OBSSR 20th Anniversary (pending)
June 25, 2015: Main Campus, NIH

OAR: Upcoming Scientific Meetings and Workshops

1. Institute of Human Virology 16th Annual International Meeting
September 14 – 17, 2014: Baltimore, Maryland
2. U.S. Conference on AIDS sponsored by the National Minority AIDS Council
October 2 – 5, 2014: San Diego, California
3. HIV Research for Prevention 2014:
 - A. AIDS Vaccine, Microbicide and ARV-based Prevention Science Meeting
 - B. 9th International Workshop on HIV Transmission – Principles of Intervention
 - C. International AIDS Society Symposium “Synergies between HIV Vaccine Research and Research Toward an HIV Cure”
October 25 – 31, 2014: Cape Town, South Africa
4. HIV Research in Women Symposium sponsored by the NIH Centers for AIDS Research
December 9 -10, 2014: New Rochelle, New York

Chimpanzee Research Use Panel (CRUP)

Barbara J. Guthrie, RN, PhD, FAAN
Northeastern University
Co-Chair



Gilbert C. White, II, MD
BloodCenter of Wisconsin
Co-Chair



Rev. Kim Turner Baker
JD, MDiv



James H. Wendorf
Nat. Center for Learning Disabilities



“...to consider whether requests to the NIH to use chimpanzees in research are consistent with IOM principles and criteria and to provide their findings to the Council of Councils for further consideration.”

James G. Else, DVM, MPVM
Emory University



Sarah J. Ratcliffe, PhD
University of Pennsylvania



Paul A. Garber, PhD
University of Illinois



Karen J. Maschke, PhD
The Hastings Center



Amye L. Leong, MBA
Healthy Motivation



Chimpanzee Research Use Panel (CRUP) Activity

Upcoming schedule:

CRU Submission	CRUP Meeting	Council Review
November 1, 2014*	December 2014	January 30, 2015
March 3, 2015	May 2015	June 19, 2015
July 1, 2015	August 2015	September 1, 2015

* First submission date applicable to grant applications

Questions?