Working Group on Diversity—UPDATE

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Advisory Committee to the Director—December 11, 2014







Working Group on Diversity Update Presentation Outline

- 1. The Enhancing the Diversity of the NIH-Funded Workforce program:
 - Launch and Implementation Phase Management
- 2. Efforts to enhance diversity within the NIH Intramural Research Program (IRP)
- 3. National Strategy to Enhance Scientific Workforce Diversity



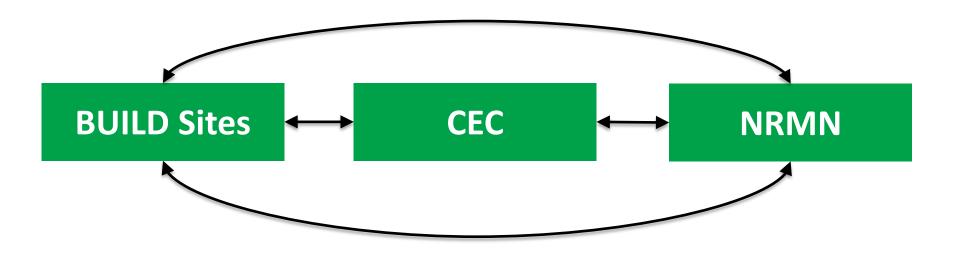
Enhancing the Diversity of the NIH-Funded Workforce

NOVEL. INNOVATIVE. TRANSFORMATIVE.

Pipeline. Mentoring. Evaluation.

The Diversity Program Consortium

3 Highly-Integrated Initiatives



COSWD

Oversight, Management and Accountability

Implementation of a Major ACD WG Recommendation: NIH Transformative Diversity Initiative

Pipeline, Mentoring, Evaluation

Awards made October 2014

BUILD: 10 sites NRMN

CEC

Total funding: \$31.3 M/yr (5 yrs)

BUILD

- California State University Long Beach
- California State University Northridge
- Morgan State University
- Portland State University
- San Francisco State University
- University of Alaska Fairbanks
- University of Detroit Mercy
- University of Maryland Baltimore County
- University of Texas El Paso
- Xavier University of Louisiana



NRMN

- Boston College
 - Morehouse SM; U. Min.; U. North
 Texas; U. Wisconsin

CEC

University of California Los Angeles

Enhancing the Diversity of the NIH-Funded Workforce Overarching Goal:

Merge social science with biomedical research training to *develop* and test new approaches to training and mentoring on a large scale

Building Infrastructure Leading to Diversity (BUILD)

INFRASTRUCTURE FUNDING BROADENING PARTICIPATION

National Research Mentoring Network (NRMN)



Coordination and Evaluation Center (CEC)

ACCOUNTABILITY

Program Initiatives



- Building Infrastructure Leading to Diversity (BUILD):
 - Experimental training awards: how to attract & retain students from diverse backgrounds into biomedical research workforce
- National Research Mentoring Network (NRMN):
 - Nationwide network of mentors from variety of disciplines:
 - Define best practices for mentoring at all career stages
 - Training for mentors
 - Networking & professional development for mentees
- Coordination and Evaluation Center (CEC):
 - Rigorously evaluate BUILD and NRMN programs to determine WHAT WORKS AND FOR WHOM
 - Dissemination of successful training and mentoring strategies

Awardees will work together as a consortium in partnership with the NIH

"How is this different from other NIH-funded diversity programs?" Critical Features of the Consortium

Consortium-wide "hallmarks of success"

- Intermediate measures of successful progression toward a biomedical research career
- Academic and psychosocial (stereotype threat; belonging; unconscious bias; science identity)
- Adjust specific plans to work toward consortium
- New ways of training and mentoring

Evaluation

- Evaluation in real time; multiple metrics to assess impact
- CEC works with sites to develop tailored assessment plans

Dissemination

Lessons learned will be broadly shared

NRMN Innovation—http://nrmnet.net/

- Diverse leadership across race, ethnicity, gender, geography
 - Mentoring, networking, mentor training, professional development
- Regional hubs (5) building capacity
 - Partnership (majority, HBCUs, HSIs, and TCUs), BUILD recipients, societies
 - Via a proven online web portal
- URM postdocs and junior faculty focus on grantsmanship
 - Proven track record in mentoring trainees to successfully prepare fundable NIH grants
- "Train-the-trainer" large-scale implementation of mentoring
 - Include cultural responsiveness and competency

National Research Mentoring Network (NRMN)
Mentoring to Diversify the Biomedical Workforce



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About NRMN

Join NRMN

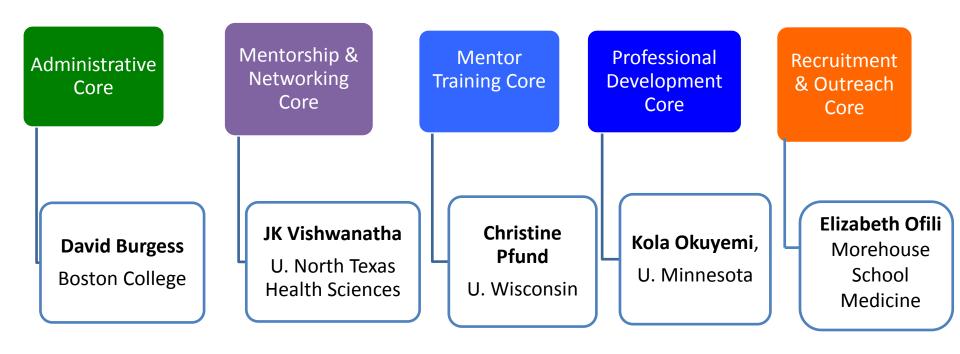


R

Mentor Training

Professional Development

NRMN The Core Structure





- Building upon successes
 - UMBC "collateral synergies" strategy aims to harness general student success from the success of specialized programs.
- Investment in "active learning" to increase the efficiency of learning
- Target: students with an interest in pursuing STEM but at risk of attrition

Biomedical Learning and Student Training (BLaST)

- Program aims to enhance integration of rural locations via University of Alaska Fairbanks and their partners
- Focus on academic enrichment activities and skill development workshops
- Participants include Alaska Natives, academically disadvantaged, low-income, and first-generation college students
 - All prevalent in rural Alaskan populations

BUILD@CSUN



- Redesign of research training and mentoring informed by Critical Race Theory. Elements include:
 - Emphasizing experiential knowledge
 - Challenging dominant ideologies
 - Commitment to social justice
- Ultimately, CSUN will create a new Health and Health Disparities Research Center
 - Focus on culturally competent mentorship
 - Methods developed will be a model for other research training programs

COSWD Near-Term Goals



COSWD Near-term Strategic Goals

Build a diverse trans-NIH scientific workforce that is a model for capturing the most talented into biomedical research

NIH Intramural Program

- Establish the NIH Intramural Research Program (IRP)
 "Hub" for Innovation in Scientific Workforce Diversity:
 transition stage in the career path
- 2. Create climates of inclusion and sense of belonging for the scientific workforce (using social science)*
- Assemble an interdisciplinary and diverse team to define and execute a robust research agenda for discovery and implementation science of diversity.

Expand Diversity in the IRP ACTION AREAS

- Recruitment and retention
 - Targeted searches for identifying candidates
- Leadership and professional development for postdocs and early tenure track PIs
 - Pilot programs
 - Diversity in trainee programs
- Enhance the NIH climate of inclusion and belonging
 - Intervention for unconscious bias
- Building partnerships with diverse institutions
- Leveraging new disciplines (e.g., data science) as
 opportunities to attract next generation researchers

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NIH Intramural Investigator Workforce

GENDER	October 1, 2014
Females	82 (38%)
Males	133 (62%)
TOTAL	215

RACE/ETHNICITY	October 1, 2014
African American	3 (1.4%)
Hispanic	10 (4.7%)
Native American	1 (0.5%)
Asian/Pacific Islander	69 (32.1%)
White	132 (61.4%)
TOTAL	215

Diversifying Candidate Pools

- ICs report barriers: lack of diverse candidate pools ranked at top of the list
- Limitations:
 - Where to outreach
 - Knowledge about targeted recruiting
 - Awareness of psychosocial issues faced by candidates
 - Knowledge of the application process



COSWD Systematic Approach



Search Pilots to Date

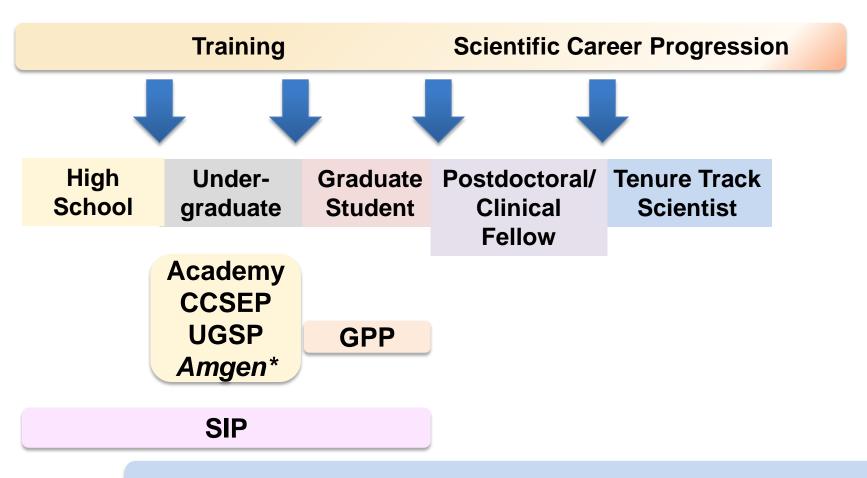
- Seven ICs; Stadtman
 - 140 potential candidates identified
- Positions have ranged from postdoctoral fellow to IC Deputy Director
- Currently evaluating outcomes
- Next steps: Build search instrument
 - Automate/operationalize search process
 - National roster
 - Interface with social media sites
 - Collaboration with data science



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Current NIH – OITE Program to Increase Diversity



Gaps: Postdoctoral to Early Career Investigators

<u>Diversifying and Accelerating Research</u> <u>Excellence (DARE)</u>

Modeled after the successful Stanford's DARE Program

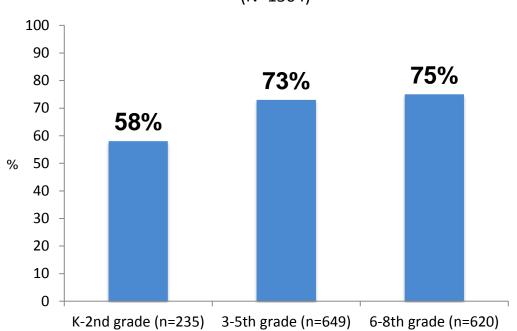
- Develop skills for career advancement
- Forum for developing lab management skills
- Build skills for those aspiring to non-bench careers
 - Intern with an expert at NIH (or externally)
- Training on strategies to support one another
 - Peer-mentoring; peer-coaching; small group mentoring
- Design and implement evaluative component to track and measure outcomes over time

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Who is a "Scientist"?

Draw-A-Scientist Test: Percent of Students
Who Drew A Male Scientist
(N=1504)





Developing a National Strategy to Enhance Scientific Workforce Diversity

Planning for Beyond BUILD, NRMN, CEC

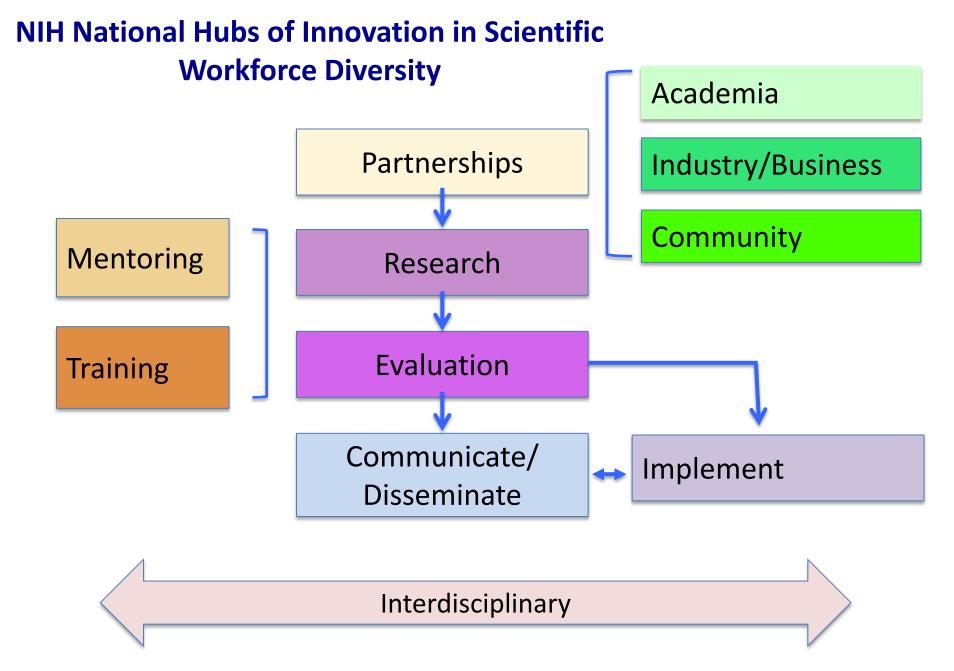
NIH Program Catalyzing Innovation in Scientific Workforce Diversity

National Comprehensive Plan – Hubs of Innovation

Strategy: Create networks and strong infrastructure that support career development pathways enabling scientist, including those from underrepresented groups, to transition seamlessly across research career paths.

Essential Components:

- Strategic Partnerships: with Research Intensive Institutions, with Organizations (focused on education/training)
- Intervention Discovery Science of Diversity
- Implementation and Scaling
- Tracking and Evaluation
- Organizational Commitment



Program Deliverables

- National network to support career transitions
- Evidence-based literature to eliminate/reduce
 barriers at key career transition points
- Individual access to the network in support of career development success
- Organizational infrastructure to support career development and transitions
- Tools and resources to catalyze and sustain career transition success

Feedback from Academic Community

Webinars Nov. 12 and 18 Drs. Collins, Tabak, Valantine

- Evaluation
- Partnerships strategy
- Mentoring scope; content; methods
- Current Programs as Models
- Promote Participation: diversity at all career levels
- Resources: Existing and new tools
- Diversity of Partners