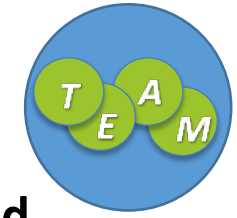
Concept Clearance
Collaborative Program Grant

NIGMS Advisory Council Meeting

January 27th 2017

Collaborative Program Goals



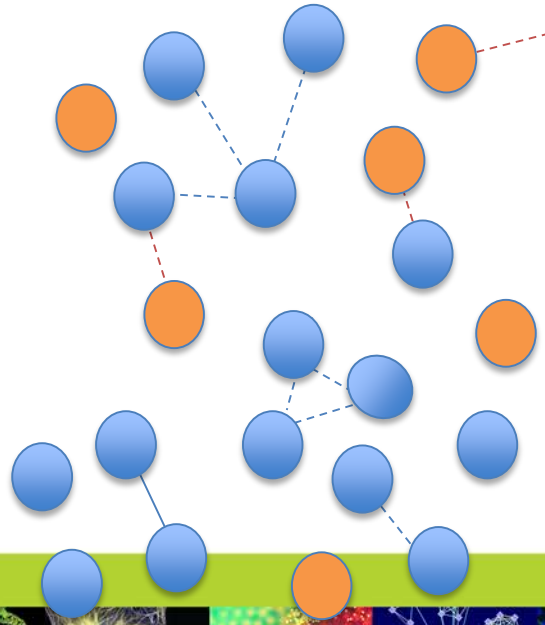
- **Develop a mechanism to support research that cannot be accomplished using individual or MPI R01s or MIRA awards**
- **Address research questions of significant complexity, scope, and biomedical impact**
- **Foster highly integrated and collaborative research teams**
- **Train and mentor new scientists in team science approaches**
- **Strength scientific communities and advance scientific problems through coordinated research effort**

This program will replace all existing larger funded programs at NIGMS, with the exception of specific budget authority programs.

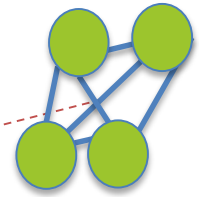
NIGMS Collaborative Program will address unique opportunities

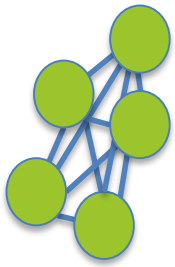
Individual and Peer Collaborators

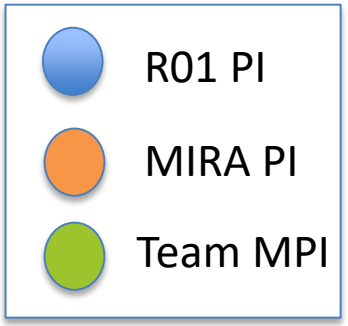
- Most of NIGMS science
- Foundational research
- Long term and evolving
- Dynamic or stable collaborations



Team Science Investigators







- Limited awards
- Challenges requiring focused teams
- Targeted goals
- Highly integrated group

Programs that have or will sunset	Number of Active Awards
P50 Injury & Peri-Operative Centers	3
P50 National Centers for Systems Biology	12
P01s Program Project Grants	42
U54 Large Scale Collaborative Projects (plus specific U54 FOAs)	2
Programs that will continue	
P20 INBRE, COBRE Centers	
P50 HIV-AIDS Centers	

Presentation of Concept: Collaborative Program Grant

Required Elements

- Single integrated program of research
- Requiring 3-6 investigators
- Can be completed in 5-10 years
- Single set of Specific Aims
- Single consolidated budget, subcontracts as needed
- Plan for sustaining legacy resources
- MPI application and management plan
  - Timelines and milestones
  - Optional External Scientific Advisory Board
  - Optional Program Coordinator

Optional Elements Allowed

- Developmental funds in future years
- Outreach, dissemination, training activities
- Infrastructure development and support
- Human subjects/clinical research

Collaborative Program Grant

- Research Project with Complex Structure (RM1)
  - *RM1 activity code is considered an RPG*
- Single 30 page research plan
- Additional 6 page program management plan
- Budget $500K - $1.5M D.C. for research activities
- Up to $250K for certain optional activities
- 4-6 awards per year at $2.0M average total costs
- 5 year project period, renewable one time, only
- $50 million (25 awards) total investment in steady state

Eligibility

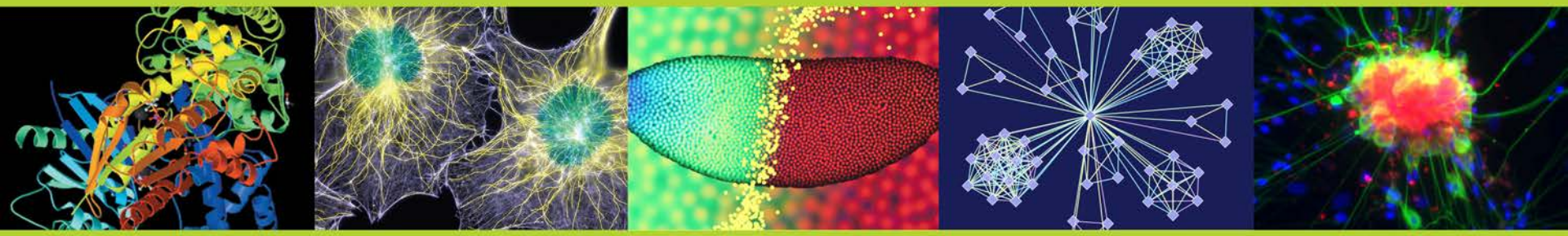
- Domestic institutions, foreign subcontracts permitted
- Investigators subject to NIGMS $750K policy review
- MIRA investigators as part of their R35 award effort
- HHMI-like investigators as their one NIGMS grant award
- Minimum 25% effort, contact PI minimum 30% effort

Receipt and Review

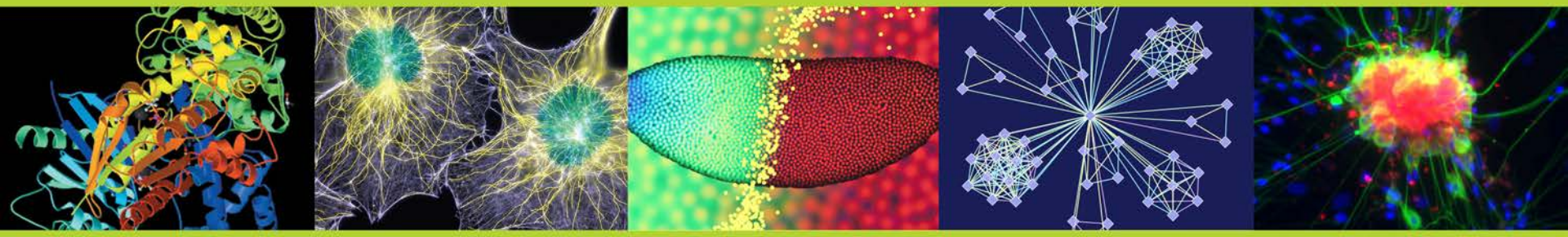
- PAR with one or two receipt dates per year
- All awards following the January Council
- Competitive review by CSR [and/or OSR]
  - Possibly using a two stage process
- Standard Review Criteria plus
  - FOA-specific questions based on program goals, required, and optional elements

Thank You from the NIGMS Working Group

Susan Gregurick	Cathy Lewis/Peter Preusch
Sarah Dunsmore	Alison Gammie
Fred Taylor	Susan Haynes
Michelle Hamlet	Yanping Liu
John Laffan	Jim Onken
E.C. Melvin	Jake Basson
Michael Sakalian	Paul Sammak
Michael Sesma	Scott Somers
Anissa Brown	



EXTRA SLIDES



Team Science Resources

Key Findings for Team Science

- Scientific goal is critical.
- Team features: trust, shared vision, diverse members, emotional intelligence, shared professional credit. Bennett Gadlin (NIH intramural) J. Invest. Med. 2012
- Team composition, leadership, professional development, effectiveness
  Enhancing the Effectiveness of Team Science, Cooke & Hilton, Ed. NAS Press 2015
- Transdisciplinary grants produce higher publication rates and impact than R01 grants over time. Hall, Marcus, Berrigan, Am. J. Prev. Med. 2012

Training programs and literature on Team Science

- www.teamsciencetoolkit.cancer.gov NCI sponsored forum blog training tools library, listserv
- http://www.scienceofteamscience.org/ Conference June 12-14, 2017 Clearwater Beach, FL
- toolbox-project.org/ Michigan State NSF funded
- teamscience.net Northwestern U. NCATS NLM funded
- mendeley.com/ Science of Team Science (SciTS) annotated literature. Elsevier

Administrative Management

- Letter of Intent
- Staff Funding Recommendations
- Annual progress reports (RPPR and FPR)
- Monitor Annual Scientific Meetings
- Metrics and process for evaluation of outcomes
- Periodic reports to Council

Working Group Process

I. Lessons Learned from NIGMS:

- P50 Injury & Peri-Operative Centers
- P50 National Centers for Systems Biology (NCSB)
- P50 HIV-AIDS Centers
- U54 Glue Grant
- PSI
- P20 INBRE, COBRE Centers
- P01s

II. Lessons Learned from NIH:

- Science of Team Science (SciTS)
- NCI Transdisciplinary Centers Initiatives
- LINCS and CEGS programs

III. Lessons Learned from NSF:

- Science and Technology Centers: Integrative Partnerships
- Science of Learning: Collaborative Networks & Centers Program

IV. Request for Information (RFI) from Broader Scientific Community (NOT-GM-104)

V. Briefings to NIGMS Senior Staff, NIGMS Professional Staff and NIGMS Advisory Council

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Team Science Investigators

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- Challenges requiring focused teams
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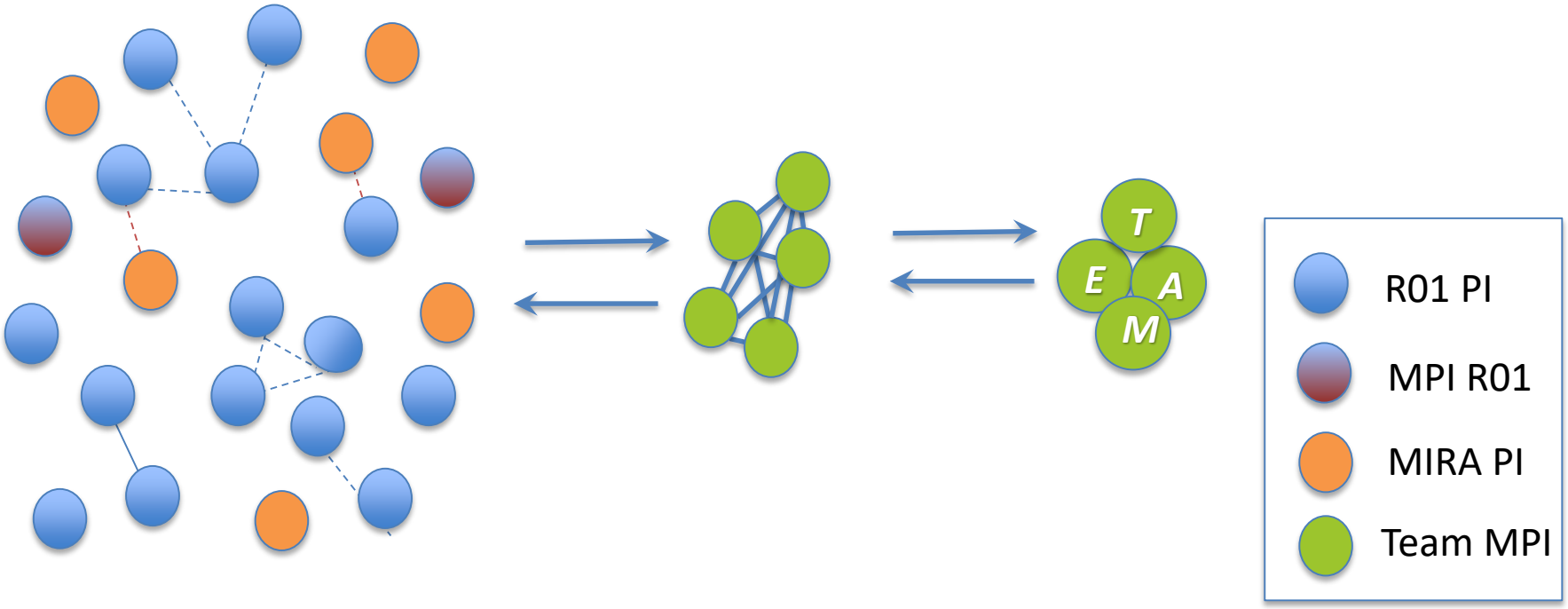
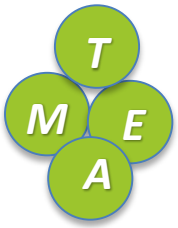


Collaborative, Team Based Science



- **<u>Goal</u>:** Through a series of **case studies, evaluations** and an **examination of NIH and other federal agency support** of larger multi-investigator and multi-disciplinary research, and through a **Request for Information**, develop a program to:

  - Address complex research questions
  - Foster highly integrated and collaborative scientific research teams
  - Train and mentor new scientists
  - Impact scientific communities that benefit from coordinated support.

- *This program is envisioned to replace all existing larger funded programs at NIGMS, with the exception of specific budget authority programs.*