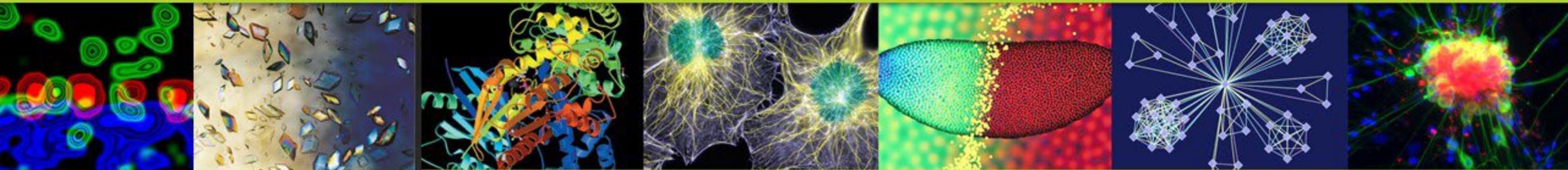


# Recently Released Funding Announcements: Team Science and Biomedical Technology Centers

Peter Preusch, Haluk Resat,  
Jon Lorsch, and Lisa Moeller



# Webinar Agenda and Reminders

- Brief presentations by Dr. Preusch and Dr. Resat
- General Q/A with Dr. Lorsch and other NIGMS staff
- Slides will be posted and the webinar archived on [NIGMS website](#)
- Meeting number: 628 841 986
- Password: nigms
- Audio via computer OR call 650-479-3208
- Use WebEx meeting CHAT feature to submit questions during the webinar
- See [NOT-GM-20-023](#) for other ways to connect.

# New Programs – Different Goals

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## Collaborative Program Grant for Multidisciplinary Team Science

- PAR-20-103 (RM1)
- Reissue of PAR-17-340
- Replaced previous multi-project grant mechanisms

## Biomedical Technology Development and Dissemination Centers

- PAR-20-104 (RM1)
- Replaces P41 Biomedical Technology Research Resource Centers

## NIGMS National and Regional Resources

- PAR-19-301 (R24)

# Collaborative Program Grant for Multidisciplinary Teams

- Goal is to solve an important biomedical problem in the NIGMS mission.
- Program of sufficient scope and complexity that could NOT be accomplished through multiple independent research awards.
- Sufficient impact to warrant a substantial investment, achievable in 5-10 years.
- Single well, integrated project, set of aims, and budget without subprojects.
- Well integrated, multidisciplinary research team of 3-6 investigators with shared management responsibility.
- Optional plan to add new ESI team members in future years.
- Not for technology development, community infrastructure, resource support.

# Reissue of Announcement with Changes

- Reissued as RM1 Clinical Trial Optional, because the NIH definition includes mechanistic studies of interest NIGMS – additional instructions and review criteria added. Phase I, II, III safety and efficacy trials will not be accepted.
- Rebranded ESI Pilot Projects as developmental funds to support addition of Early Stage Investigators to the research team in future years.
- Consolidated policy changes published as Notices – foreign investigators, submission types, changes in NIH areas of research support.
- Clarified language regarding eligibility, Multiple PD/PI and Team Management Plan, other support, and diversity.
- Reemphasized that research must be *entirely* in the mission areas of NIGMS

# Team Management Plan and Optional Activities

- Must be a Multiple PD/PI Application and must contain an MPI Leadership Plan (see SF424 instructions) and a separate Team Management Plan (see FOA)
- Avoid redundancy
- Governance and organization structure; communication plans; decision making, conflict resolution; technical and administrative roles; scientific responsibilities, including human subjects and vertebrate animals
- Entire team structure and composition; shared leadership, contributions and distributed responsibility; resource allocation; plans for professional development; creating trust and a shared vision; interpersonal interactions and professional credit; evaluation of progress; replacement of key personnel and PD/PI's
- May include scientific advisory board
- May include a project manager or program coordinator

# Optional Activities

- Program to recruit and support ESI's in future years
- How will relevant ESI's be identified?
- Selected for support?
- Integrated into the team?
- Mentored?
- Goals and expectations?

# How can I find out if my topic is in the NIGMS mission?

- ASK!!!
- Visit the NIGMS website. See mission, areas of research, program descriptions.
- Read the FOA, Feedback Loop, website FAQs.
- Consider the previous referral and funding history of the researchers.
- Check the NIH RePorter, use the Matchmaker Tool for general guidance.
- Contact NIGMS staff BEFORE your Institution commits to your team.
- Contact NIGMS staff BEFORE beginning your application.
- Caveat: Final decisions can only be made once the completed application is received by NIH and reviewed by NIGMS staff.

# Application

- Research Plan (limit 30 pages)
  - Single set of well-integrated specific aims that addresses both the Research Program and the Team Management Plan and Optional Activities
  - Subprojects not permitted - must not be achievable by separate grant awards
  - Table 1– Contributions of each PI to each of the Specific Aims
  - Table 2 – Milestones, Performance Criteria, Timeline
- Team Management Plan (limit 6 pages)
- Resource Sharing (Data Sharing required), Human Subjects, Vertebrate Animals, Biohazards, Select Agents, Authentication of Key Biological and/or Chemical Resources

# Budget

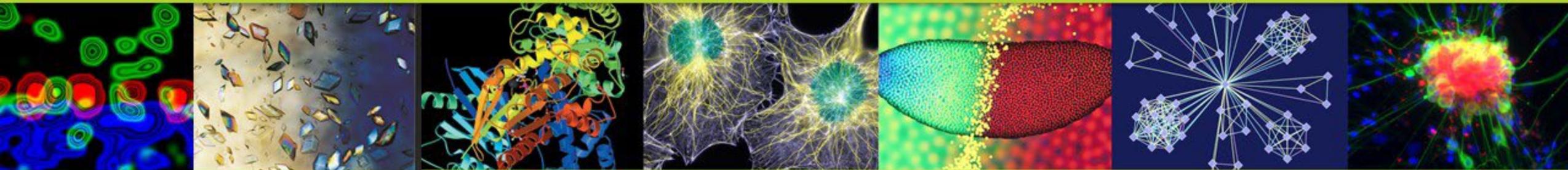
- Up to \$1.5 million direct costs per year (excluding subcontract F&A) for 5 years
- A single integrated budget with subcontracts as needed
- PD/PI's 25% (Contact PD/PI 30%) *research* effort – **should be the major focus of the PD/PI's research**
- May include equipment requests, animal costs, clinical research costs, data sharing and management costs within the \$1.5 million budget
- Cost-of-living increases will not be awarded and should not be requested
- Optionally may request up to an additional o \$250,000 d.c. per year in YRS2-5 as developmental funds for support of Early Stage Investigators.

# Timelines

Application Due	Review	Council	Earliest Start
Jan 25, 2019	June/July 2019	September 2019	April 1, 2020
May 25, 2019	Oct/Nov 2019	January 2020	April 1, 2020
Jan 25, 2020	June/July 2020	September 2020	April 1, 2021
May 25, 2020	Oct/Nov 2020	January 2021	April 1, 2021

Review by a single Special Emphasis Panel per round with broad expertise augmented by mail-in reviews.

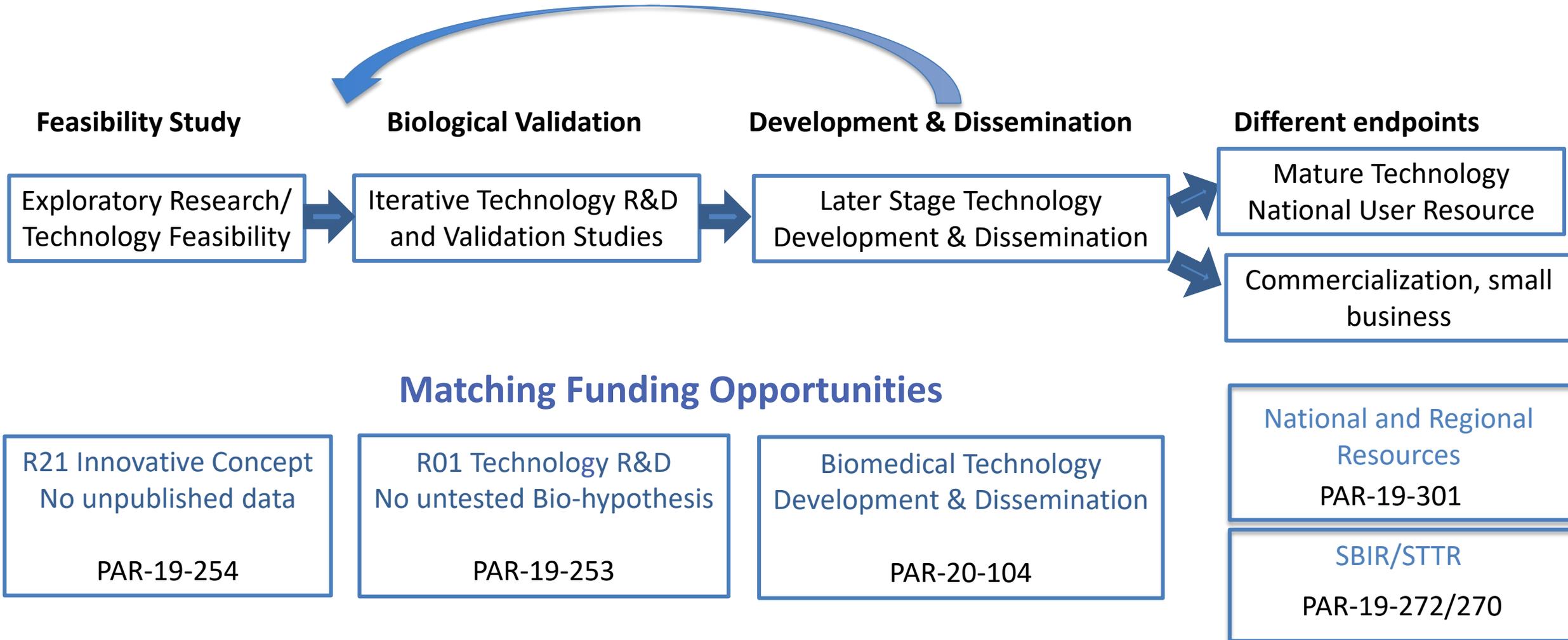
All funding decisions for the fiscal year made after 2<sup>nd</sup> level peer review by Council for both receipt dates.



# Biomedical Technology Development & Dissemination (BTDD)

- Replaces the long existing Biomedical Technology P41 BTRR program
- Mission continues to be to develop and disseminate cutting edge tools and environments to advance basic biomedical research
- Early stage development is excluded - focus on later stage technology development
- Strong proof of concept will be required for Technology Development Projects
- Emphasis shift from resource access to technology dissemination – there is National and Regional Resources R24 program for the former
- Project period is limited to 15 years – support for the existing BTRR centers count towards this limit

# Technology Research Development Pipeline



# Summary of Major Changes

Program Element	Existing BTRR Program	New BTDD Program
<u>Technology Projects</u>	<ul style="list-style-type: none"> <li>Technology Research &amp; Development Projects (TRD) all stages of development</li> <li>DBPs act as drivers (early stage) and test development (later stage)</li> </ul>	<ul style="list-style-type: none"> <li>Technology Development Projects (TDP) for later stage development</li> <li>Strong Proof of Concept required</li> <li>Short term Technology Partnerships is allowed</li> <li>Ready for DBPs to test development</li> </ul>
<u>Driving Biomedical Projects</u>	<ul style="list-style-type: none"> <li>No upper or lower limit on projects</li> <li>Independently funded</li> <li>High turnover, national in scale</li> </ul>	<ul style="list-style-type: none"> <li>No Changes</li> </ul>
<u>Community Engagement</u>	<ul style="list-style-type: none"> <li>Integrated community outreach, training, dissemination</li> <li>Flexibility in application, PI can determine nature of community engagement</li> </ul>	<ul style="list-style-type: none"> <li>Community Engagement: provide training and access, promote adaption of technology outside the center.</li> <li>Emphasize Technology Transfer through collaboration with small business/industry and developments through SBIR/STTR program</li> <li>Emphasize FAIR software principles</li> </ul>
<u>Overall Program</u>	<ul style="list-style-type: none"> <li>Expectation of limited time</li> <li>Require X02 pre-application</li> </ul>	<ul style="list-style-type: none"> <li>Explicit 15-year project period cap</li> <li>Do not require X02 pre-application</li> <li>Renewals emphasize reporting of patents, licensing, and longer-term sustainability efforts</li> </ul>
<u>Peer Review</u>	<ul style="list-style-type: none"> <li>Application pool reviewed and evaluated as a whole</li> <li>Special Emphasis Panel evaluates applications, critiques of expert mail reviewers</li> <li>Flexibility for reviewers to request clarification from PIs</li> </ul>	<ul style="list-style-type: none"> <li>No Changes</li> </ul>

# Application

All page limitations described in the SF424 Application Guide and the [Table of Page Limits](#) must be followed

Research Strategy section must consist of the following subsections with the indicated page limits

Subsection	Page Limits
<b>Overview</b>	<b>12</b>
<b>Administration and Management</b>	<b>6</b>
<b>Driving Biomedical Projects</b>	<b>12</b>
<b>Technology Development Projects (3 maximum)</b>	<b>12 each</b>
<b>Community Engagement</b>	<b>12</b>
<b>Collaboration and Service Projects (if applicable)</b>	<b>12</b>

\* For Revision applications, Introduction to Application section has different page limits

# Budget

- Up to \$850K DC per year (excluding subcontract F&A and equipment)
- May include equipment requests
- All PD/PI's must devote minimum 3 months effort
- Subsection leads for TRDs and CE should devote minimum 1 month effort
- A single integrated budget with subcontracts as needed
  - Table of personnel and the level of effort for each project with which they are involved.
- NIH does not allow cost-of-living increases

# Timelines

<u>Application Due</u>	<u>Review</u>	<u>Council</u>	<u>Earliest Start</u>
May 26, 2020	Oct/Nov 2020	January 2021	April 2021
Jan 26, 2021	June/July 2021	September 2021	December 2021
May 26, 2021	Oct/Nov 2021	January 2022	April 2022
Jan 26, 2022	June/July 2022	September 2022	December 2022
May 26, 2022	Oct/Nov 2022	January 2023	April 2023
Jan 26, 2023	June/July 2023	September 2023	December 2023

Review by a single Special Emphasis Panel per round with broad expertise augmented by mail-in reviews.

# Related Programs

- NIGMS National and Regional Resources (R24)  
<https://grants.nih.gov/grants/guide/pa-files/PAR-19-301.html>  
[https://www.nigms.nih.gov/Research/mechanisms/Pages/NIGMS-National-and-Regional-Resources-\(R24\).aspx](https://www.nigms.nih.gov/Research/mechanisms/Pages/NIGMS-National-and-Regional-Resources-(R24).aspx)  
Application Due dates: June 15, 2020; June 15, 2021
- NIGMS Mature Synchrotron Resources for Structural Biology (P30)  
<https://grants.nih.gov/grants/guide/pa-files/PAR-19-232.html>  
Application Due dates: October 8, 2020; October 8, 2021
- Transformative High Resolution Cryo-Electron Microscopy Program (expired)  
<https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-19-009.html>  
<https://grants.nih.gov/grants/guide/rfa-files/RFA-RM-19-010.html>

# Inquiries

Pre-application is not required. However, potential applicants are strongly encouraged to contact NIGMS staff at least 10 weeks prior to the application due date to discuss the appropriateness of their proposal.

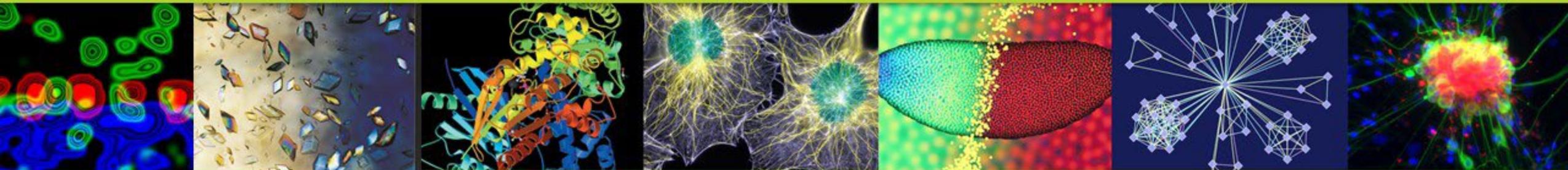
Further information can be found in the Program Announcement

<https://grants.nih.gov/grants/guide/pa-files/PAR-20-104.html>

Send post-webinar questions to:

Collaborative Program Grant for Multidisciplinary Teams  
[RM1mailbox@nigms.nih.gov](mailto:RM1mailbox@nigms.nih.gov)

Biomedical Technology Development and Dissemination  
[Haluk.Resat@nih.gov](mailto:Haluk.Resat@nih.gov)



# Thank you!

