Activities to Promote Technology Research Collaborations (APTRC)

PA-17-143

Pre-Application Webinar

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NIH NATIONAL CANCER INSTITUTE

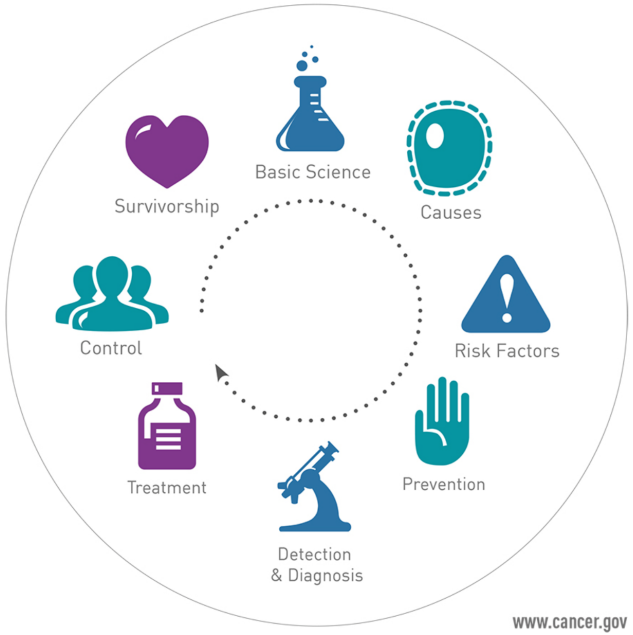
February 24, 2017

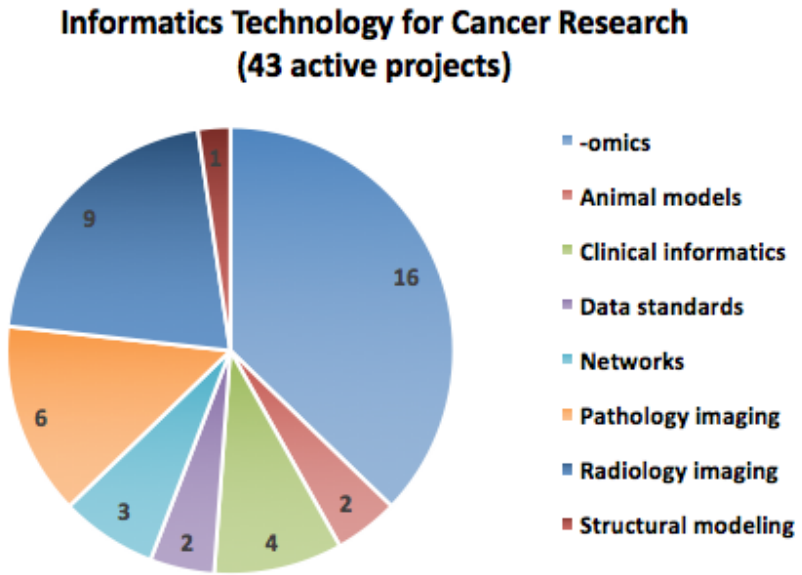
Webinar Overview

- Background and motivation
- APTRC funding opportunity scope
  - ➢NCI committing $2M
- Application requirements and timelines
- Q & A

ITCR Supports Needs Across the Cancer Research Continuum

NATIONAL CANCER INSTITUTE
Informatics Technology for Cancer Research





R21 Method & Algorithm Development → U01 Prototyping & Hardening → U24 Enhancement → U24 Sustainment

Learn more @ https://itcr.cancer.gov

IMAT Supports Needs Across the Cancer Research Continuum

NATIONAL CANCER INSTITUTE
Innovative Molecular Analysis Technologies

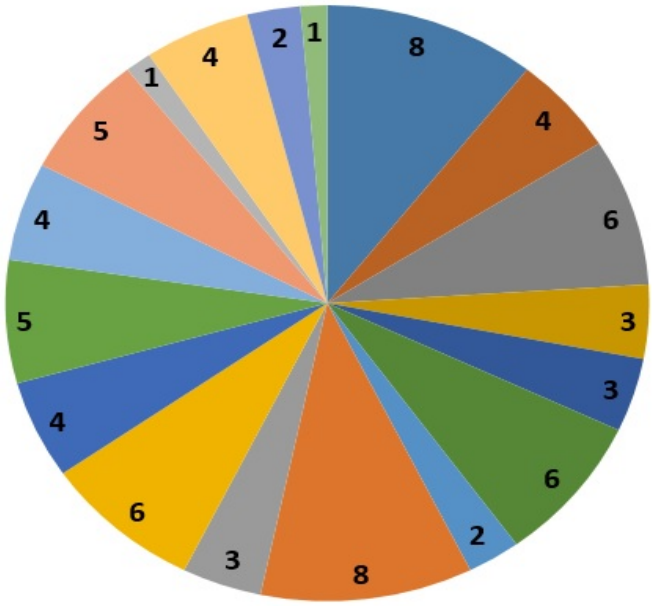
Innovative Technologies for Cancer Research (R21)

- Initial proof-of-concept
- Quantifiable milestone driven development plan

Application & Validation of Emerging Technologies for Cancer Research (R33)

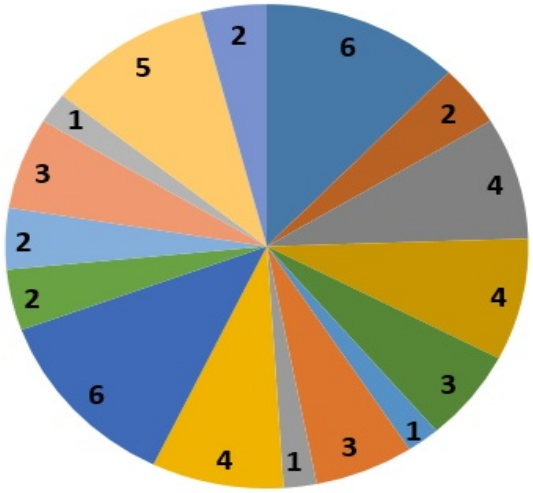
- Optimization/scaling or other further development
- Analytical/technical validation in biological context of use

Current R21 Portfolio (75 Active Projects)



- clinical diagnostics
- drug screening
- epigenomics
- genomics
- glycomics
- imaging
- immunotherapy
- liquid biopsy
- metabolomics
- modeling
- novel biosensor
- pathway tools
- proteomics
- sample prep
- sample QA
- single cell
- transcriptomics
- treatment

Current R33 Portfolio (49 Active Projects)



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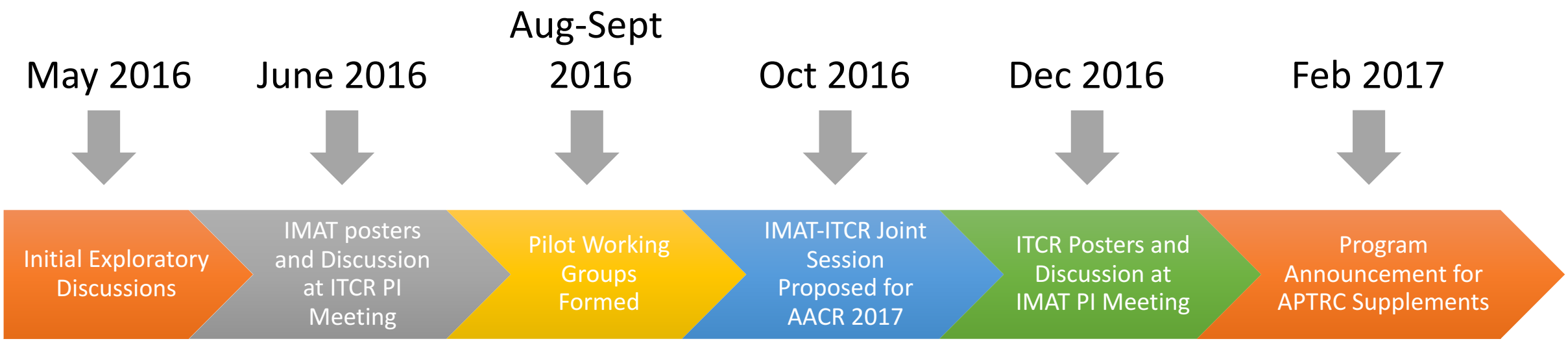
Exploring IMAT-ITCR Collaboration Opportunities

Hypothesis: Collaborative development of the data generating instrumentation and methodologies from IMAT together with the data processing and visualization technologies from ITCR will accelerate development & dissemination of useful tools for the research community.

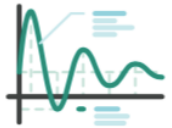


Identified Themes for IMAT-ITCR Collaboration (Summer 2016)

Advanced -omic Analyses: High-throughput analysis platforms combined with processing and data analysis platforms to enable biomarker discovery.

Next-Gen Histopathology: Biospecimen processing and multiplexed detection strategies combined with data and imaging processing and analysis for improved clinical diagnostics and prognosis.

Cancer Interactome: Tools to detect macromolecular interactions combined with advanced network analysis to improve basic research capabilities.

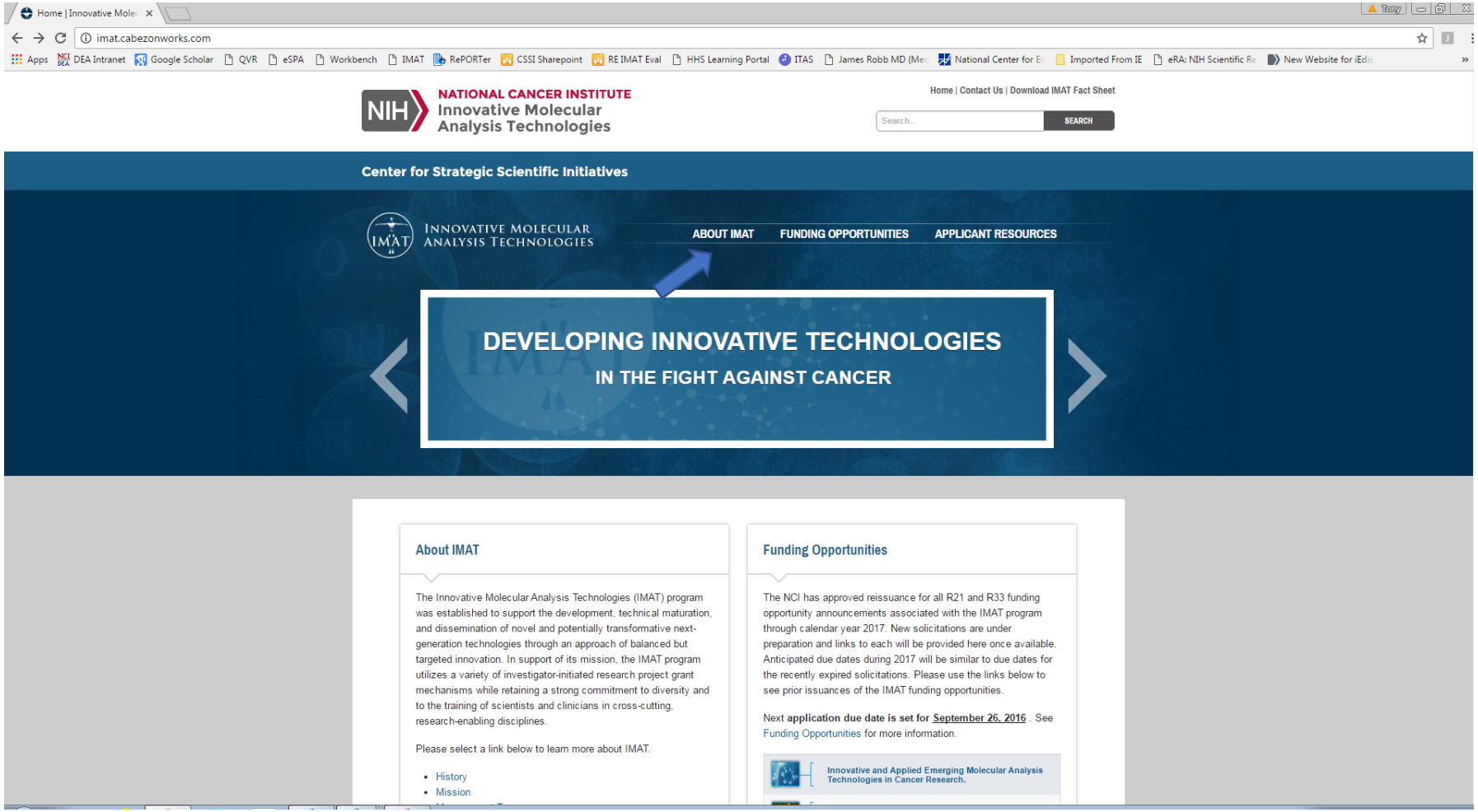


Molecular Characterization Standards: Improved QA and QC capabilities are combined to better protect sample and data integrity for cancer research and care.

Match-Making

- Comprehensive listing of all IMAT applications on the IMAT website
  - https://innovation.cancer.gov
- Comprehensive listing of all ITCR applications on the ITCR website
  - https://itcr.cancer.gov
- NIH Research Portfolio Online Reporting Tools (RePORT)
  - https://report.nih.gov
  - Links to NIH RePORT file for each project on the IMAT & ITCR websites
- NCIP Hub
  - https://nciphub.org/
  - Read-only access – no registration
  - Posting information requires creating an account

https://innovation.cancer.gov



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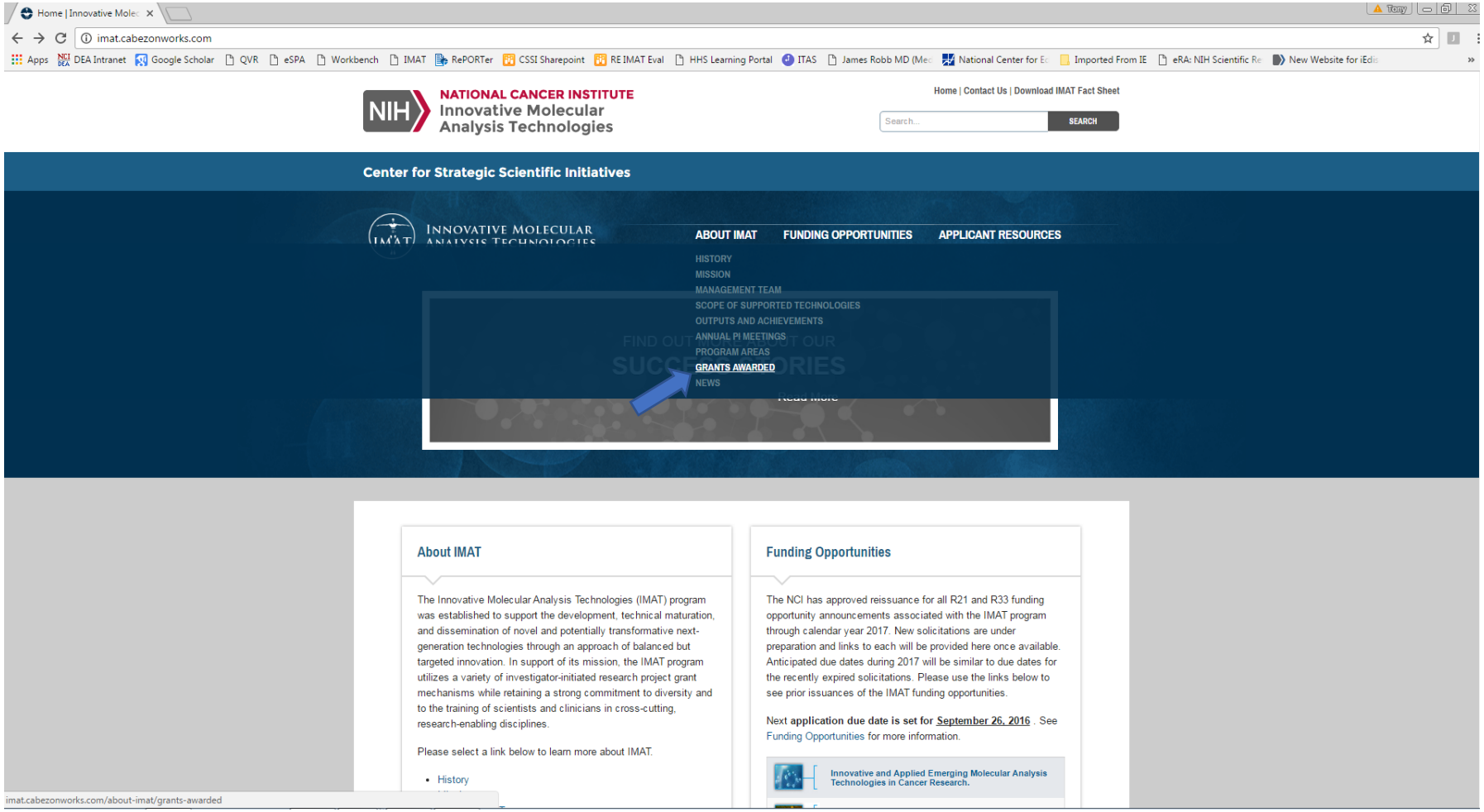

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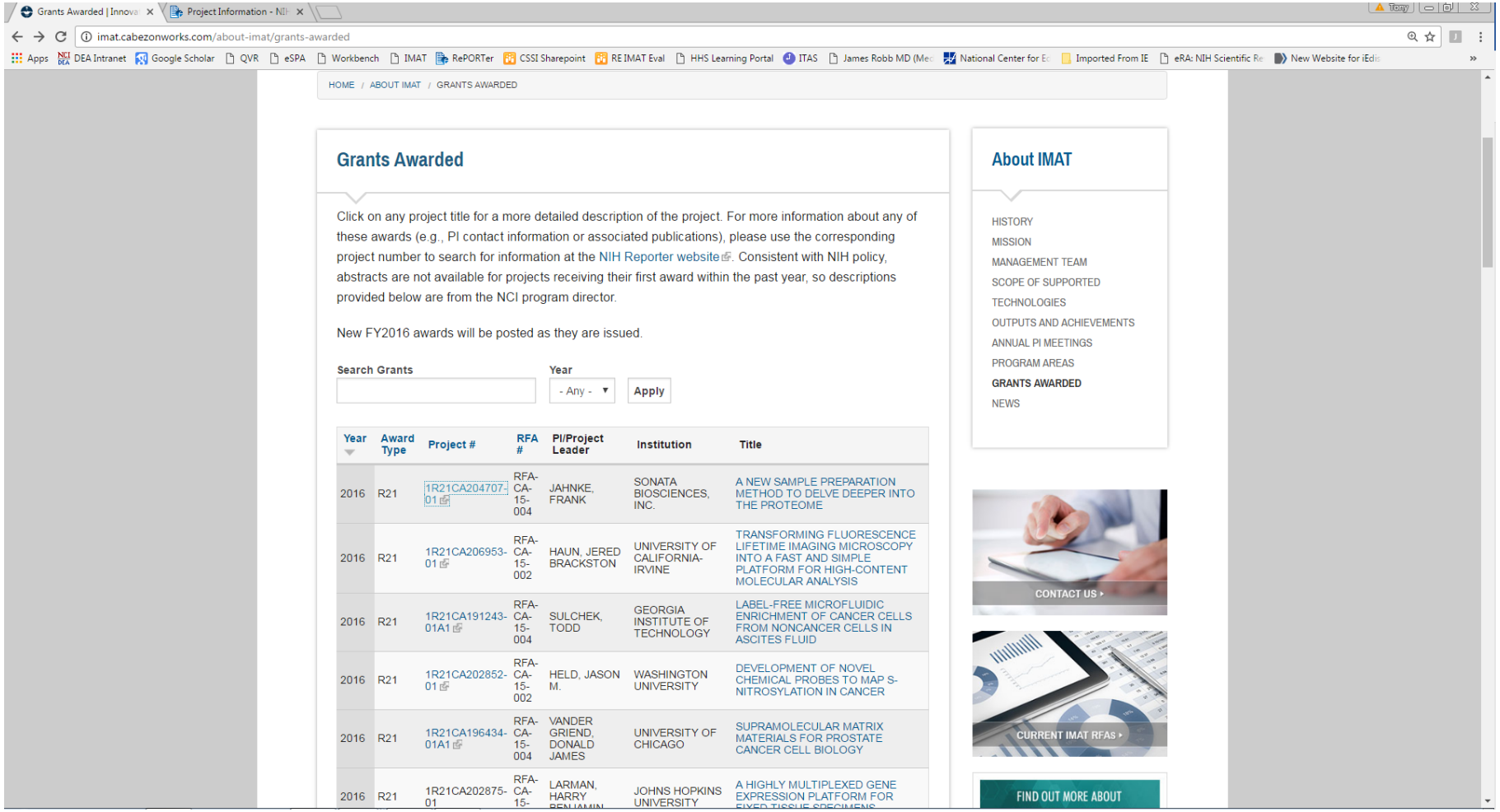

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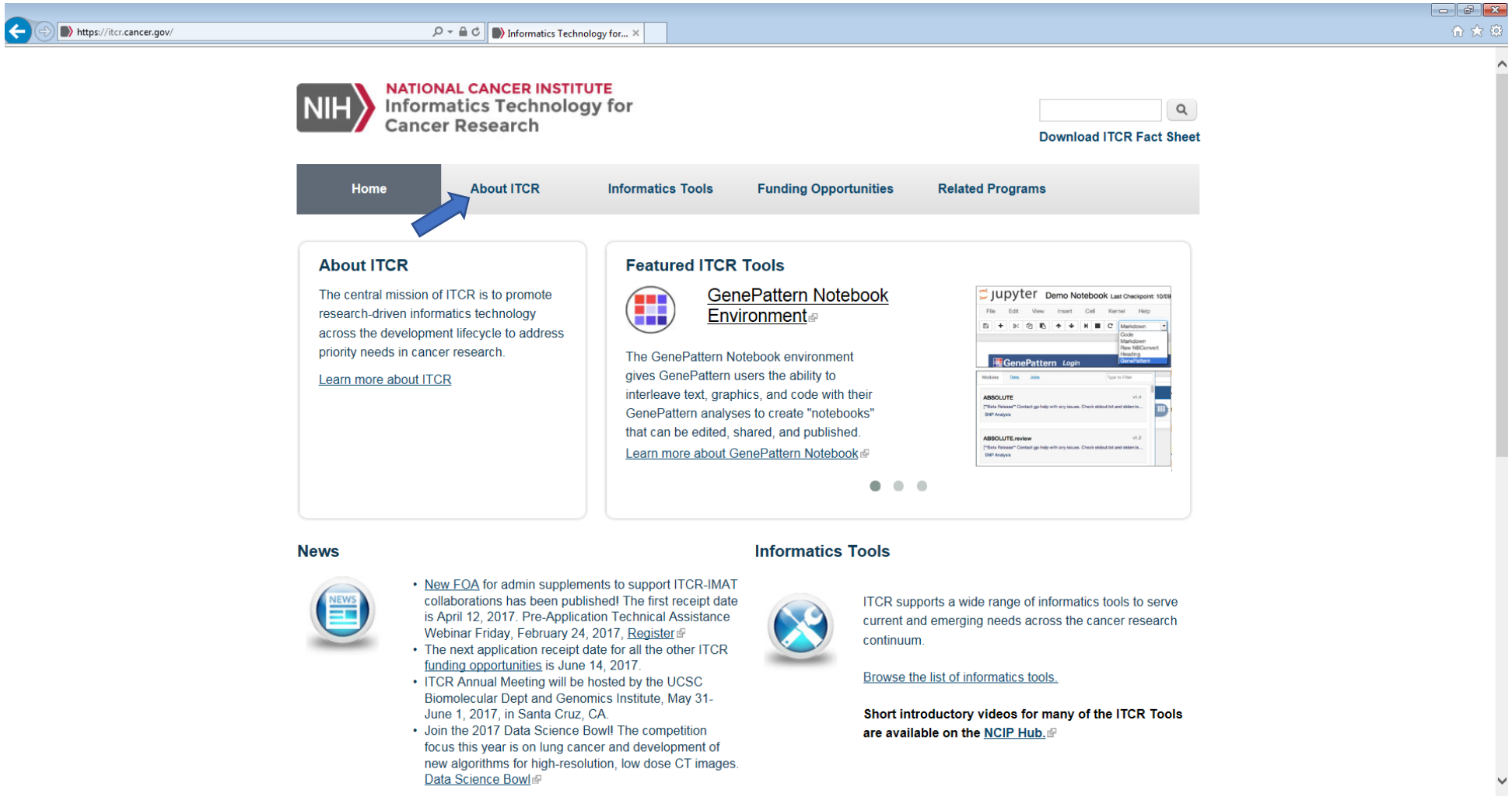

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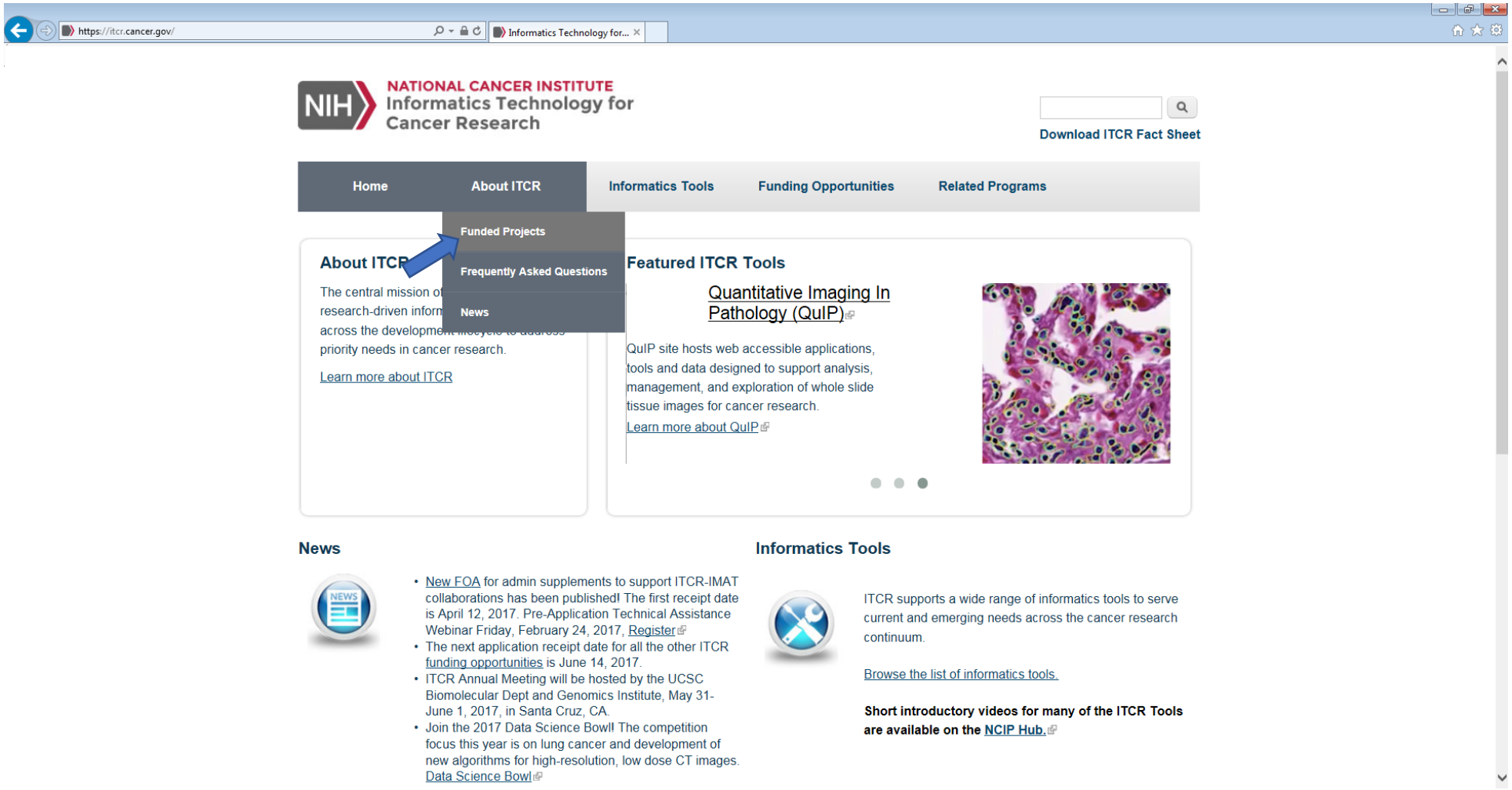

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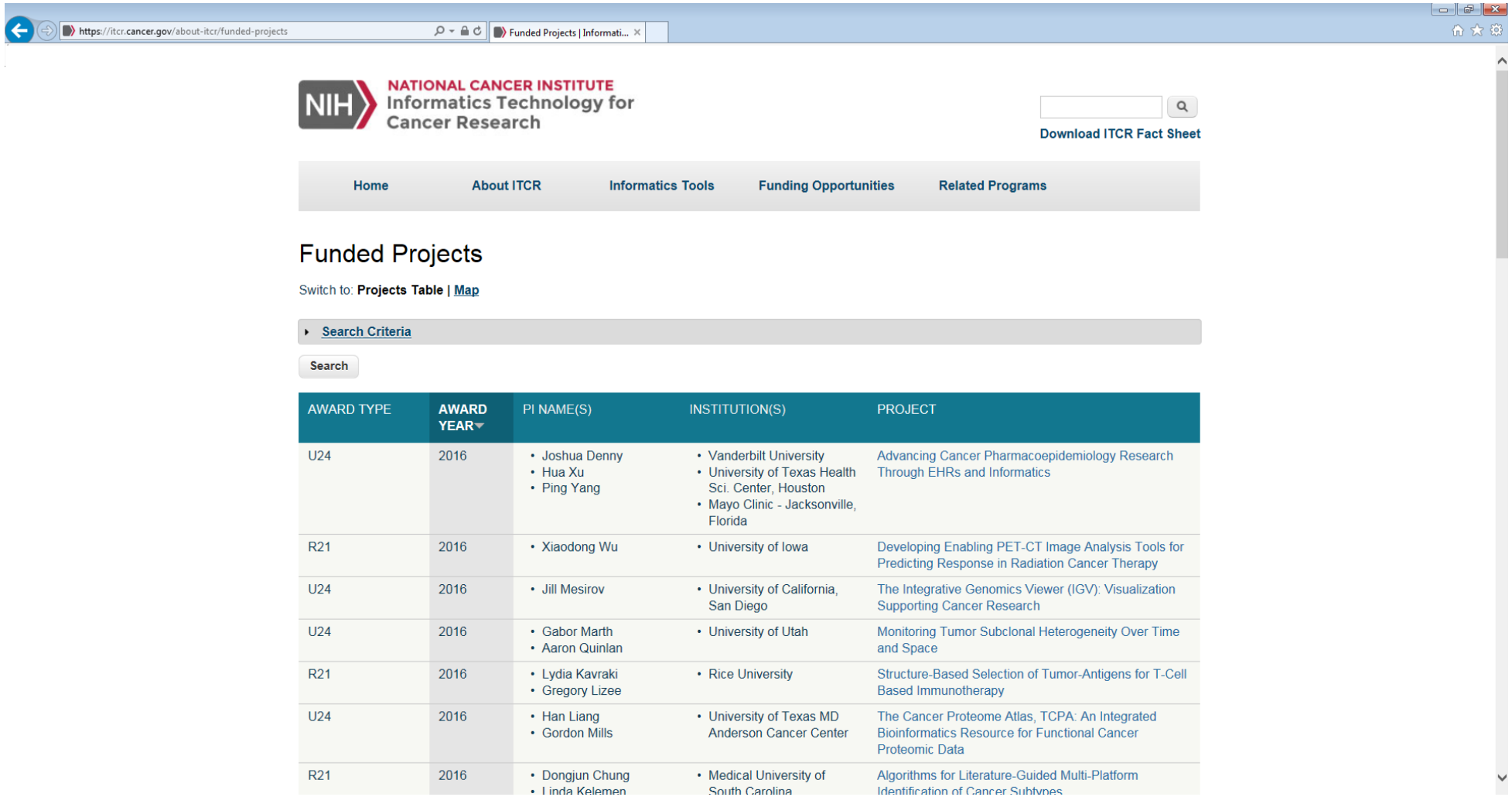

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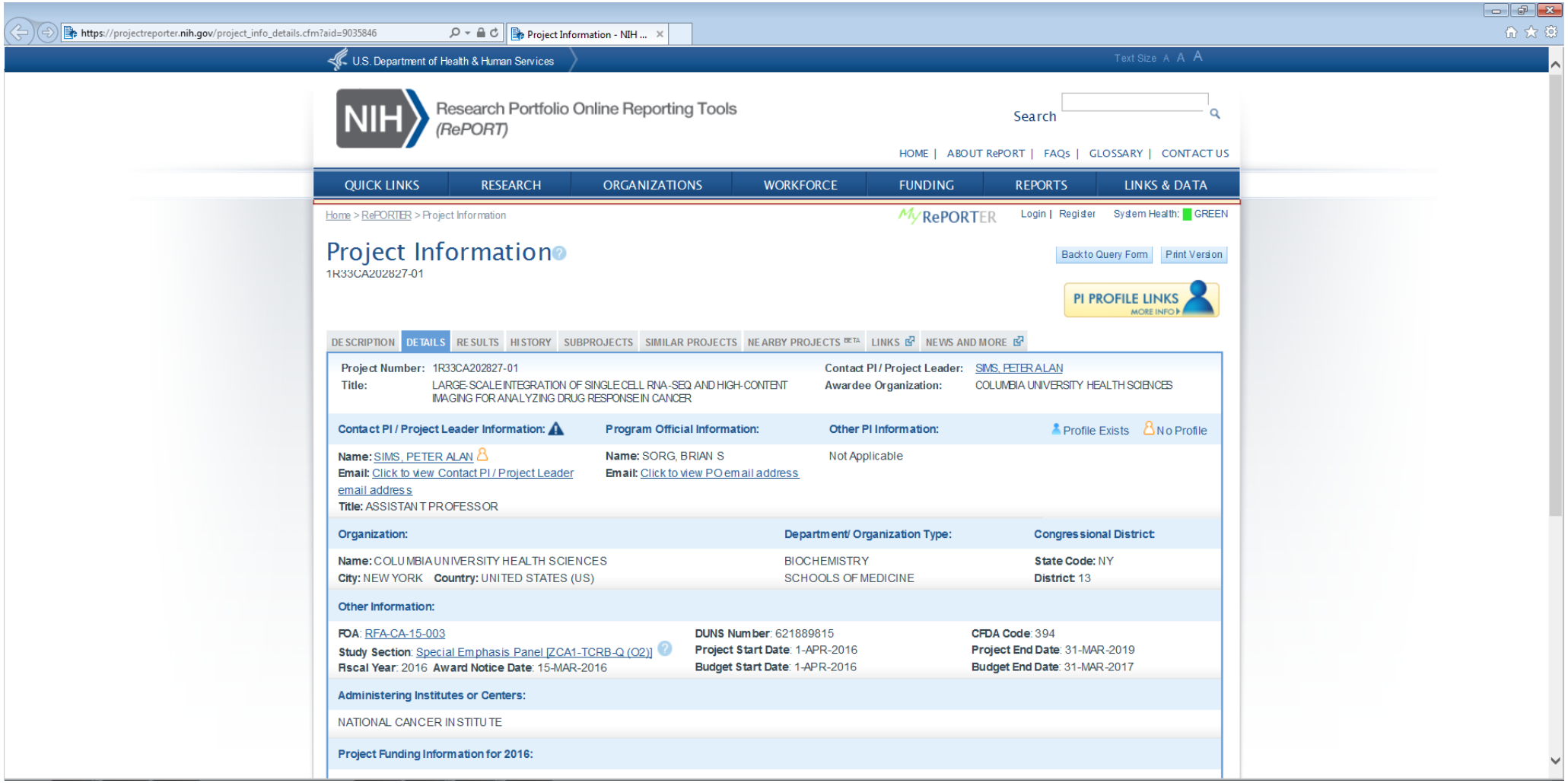

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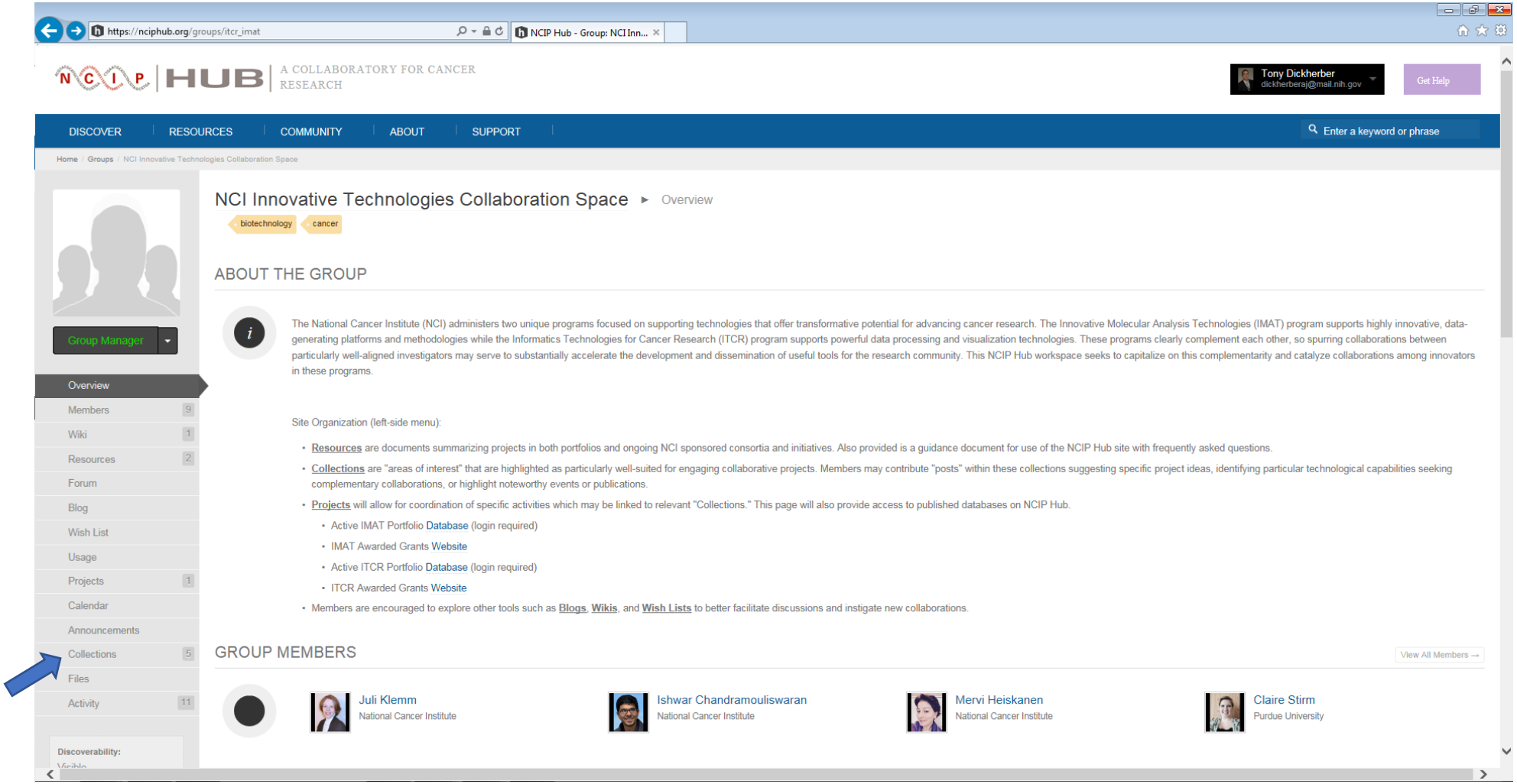

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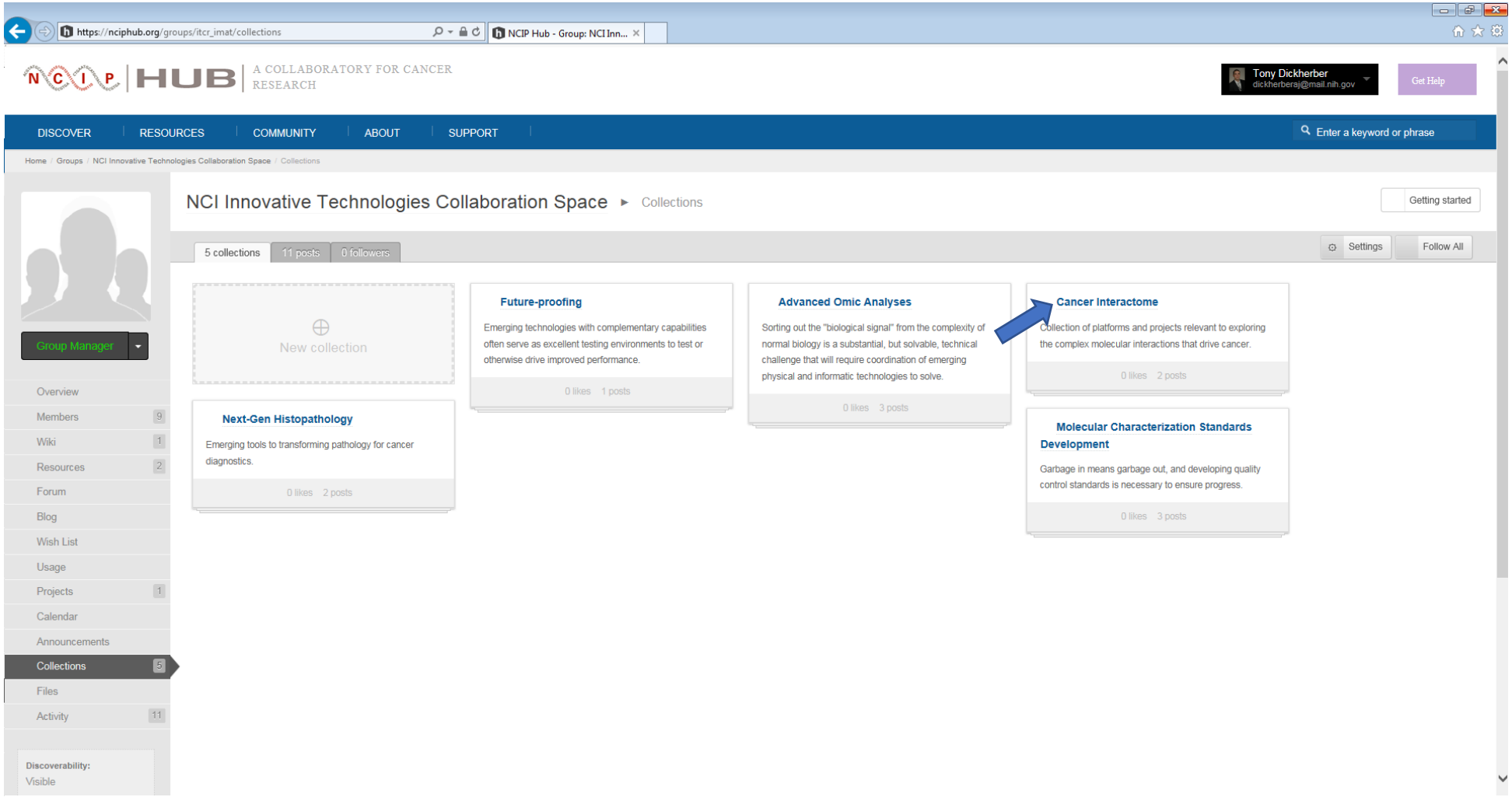

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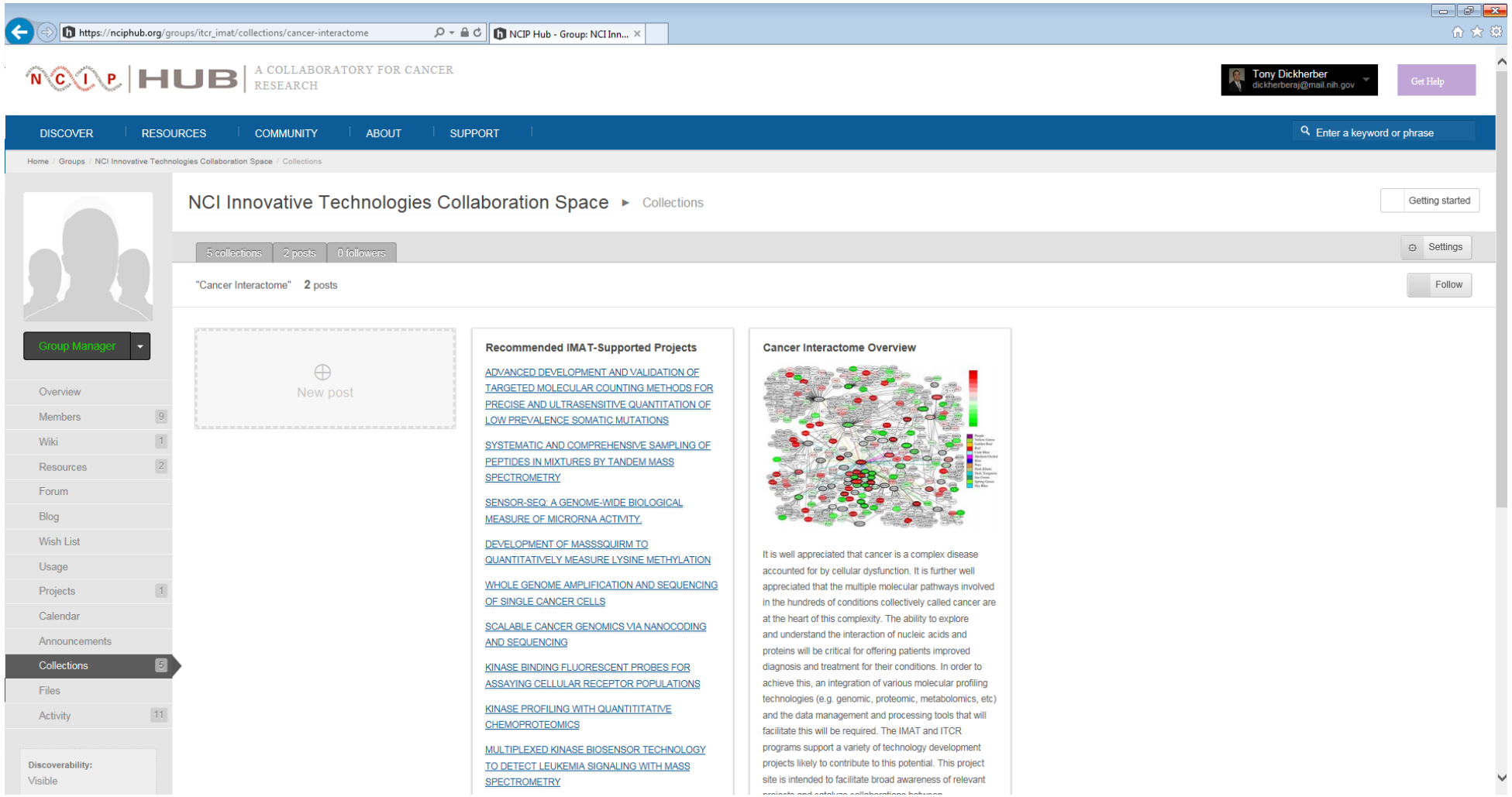

Scope of Activities to Promote Technology Research Collaborations (APTRC) Initiative

- Administrative Supplements through PA-17-143
  - *"Promoting and facilitating **new collaborative interactions to advance the utility and accelerate the availability of new tools and technologies** to the research community are the main goals of this APTRC initiative."*
- APTRC awards will support individual members of a collaborative consortium, composed of at least one parent IMAT project and one parent ITCR project.
- The APTRC activities should reflect joint research that would not be possible to conduct expeditiously, if at all, without the collaboration and the requested additional funding support.
- The collaborative research activities can be aimed at achieving certain new research objectives, as long as the research objectives are ***within the original scope of the parent award***.
- Receipt dates: April 12, 2017; July 25, 2017; and December 12, 2017, by 5:00 PM local time of applicant organization.

APTRC Requirements

- Letters of intent
  - Welcome, but not required

  - Send via email to

    Tony Dickherber, Ph.D.
    National Cancer Institute (NCI)
    dickherberaj@mail.nih.gov

    Telephone: 301-547-9980

APTRC Application Requirements

- Eligibility
  - Only the current awardees (with active awards) from the NCI IMAT program and the ITCR program are eligible to apply for these supplements, with at least one parent award from each program per consortium.
  - Each member of a consortium submits its own application.
    - Indicate which other consortium members are included in the Research Strategy section.
    - The title of each application from a consortium should be the same with an indication in parenthesis of the number of collaborating institutions (e.g., "(1 of 2)" or "(2 of 3)").
  - Supplements will be awarded for up to 24 months. Requests for periods exceeding 24 months will not be considered.

APTRC Application Requirements

- Eligibility
  - Administrative supplements are intended for grant projects that have a requisite amount of research to conduct and time remaining as stated in the approved aims. Per NIH policy, grants are not to be extended for the sole purpose of receiving an administrative supplement
  - Investigators may come from the same or different departments within an institution, or from different institutions.

APTRC Application Requirements

- Specific Aims (1 page)
  - List Aims of the parent award for which proposed activities complement, enrich or otherwise open new possibilities overall.
  - Include a brief summary of the Specific aims of the new activities, background, and significance;
- Research Strategy (5 pages maximum)
  - Indicate members of the collaborative consortium
  - Expound upon the information summarized on the Specific Aims page, if appropriate
  - Describe experimental design for the activities to be covered by the supplemental funding, including methods, data analysis, etc.
  - Include any preliminary data, if available

APTRC Application Requirements

- Budget specifications
  - Supplement awards will be issued to each of the collaborating parent grants deemed meritorious (applicant institutions may subcontract to outside collaborators).
  - ≤$50k/yr direct cost cap per consortium member; up to 2 years of support; ≤$150k/yr direct costs per consortium
  - Follow SF424 R&R Budget Submission Guidance
  - Facilities and Administrative costs (indirect costs) are permitted at the grantee institution's current negotiated rate. These must be clearly annotated.

APTRC Application Requirements

- Budget specifications
  - A detailed budget explanation and justification must be included, with each year's budget clearly detailed.
    - Include justified budgets for each collaborating unit and a summary budget for the entire APTRC project.

Summary of Submission Package

- R&R Cover Form
- Introduction & Specific Aims (1 page maximum)
- Research Strategy (5 pages maximum)
- Project/Performance Site Location
- Sr/Key Personnel form
- Budget
- Parent Award Research Strategy
- If applicable, attach documents indicating that the proposed research experience was approved by the Institutional Animal Care and Use Committee (IACUC) or human subjects Institutional Review Board (IRB) at the grantee institution. Adherence to the NIH policy for including women and minorities in clinical studies must also be ensured, if additional human subjects' involvement is planned for the supplement component.

APTRC Application Processing

- Review
  - All applications will be reviewed by program staff at NCI with appropriate subject matter expertise, with consultation from program officers assigned to associated parent awards.
    - Program officers assigned to parent awards will not participate in award selection.
  - Reviews anticipated to be completed within 6 weeks of submission.
- Post-Award Reporting
  - Progress reports for the supplements should be included in Section B.3 of the RPPR (“Competitive Revisions/Administrative Supplements”).
  - Awardees will be asked to present progress/results at the Annual IMAT and ITCR meetings (as appropriate to the investigator’s affiliation)

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