# ITCR Projects

## Funded Projects

### Award Type
- R21
- U24
- U01

### Award Year
- 2019
- 2018

### PI Name(s)
- Joshua Campbell
- Paul Maryman
- Emilie Roncalli
- Xialinge Shirley Liu
- Clifford Meyer
- Andrew Janowczyk
- Jieli Meng
- Kristen Naegle
- Li-Xuan Qin

### Institution(s)
- Boston University Medical Campus
- University of Southern California
- University of California at Davis
- Dana-Farber Cancer Institute
- Case Western Reserve University
- University of California, San Diego
- Washington University
- Sloan-Kettering Institute for Cancer Research

### Project
- Enhanced Decomposition and Prediction of Mutational Signatures
- Personalized Dosimetry for Liver Cancer Radionuclide Targeting Using Fluid Dynamics Simulation
- Developing Informatics Technologies to Model Cancer Gene Regulation
- Supporting and Evolving Gene Set Enrichment Analysis and the Molecular Signatures Database for Cancer Research
- Statistical Evaluation and Selection of Normalization Methods for microRNA Sequencing Data in Cancer Biomarker Studies

### Status
- Active

### Additional types
- Protein structure
- Data transfer
- Radiation therapy

### Biomarkers & Network Biology

### Clinical Data & Data Standards
- NLP Ontologies

### Omics
- Genomics
- Transcriptomics
- Epigenomics
- Proteomics
- Genomic viz

### Imaging
- Medical imaging
- Pathology imaging

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[https://itcr.cancer.gov/about-itcr/funded-projects](https://itcr.cancer.gov/about-itcr/funded-projects)
ITCR Promotes Collaboration and Interoperability

- Monthly PI conference calls
- Annual face-to-face meetings
- Investigator-led working groups
- Collaborative set-asides
- Administrative supplements
- Affiliated projects

ITCR Connectivity Map hosted at ndex.org (Ideker Lab)
New ITCR Program Structure

Algorithm Development → Early-Stage Development → Advanced Development & Dissemination → Sustainment

R21: $275k direct over 2 years

10% annual set-aside for collaborations

U01: $300k/year for 3 years

U24: $600k/year, up to 5 years

U24: no cap, up to 5 years

Competitive Revisions: To support tool adoption and implementation

Application Receipt Dates: June 11 and Nov 20, 2019

ITCR Education Center
ITCR Education Center

Enhance the use and usability of the informatics tools supported by the ITCR program through education of both the cancer research community and informatics tool developers

• Thematic topics in cancer informatics, using the ITCR tools as exemplars

• Skills development for informatics tool usability and user support

RFA anticipated early summer, 2019
Revisions to Support the Application of Informatics Technology to Cancer Research

- Address challenges in applying informatics technology developed through the ITCR program in support of NCI-sponsored research
- Example activities:
  - Adaptation of one or more existing tools to meet the unique needs of the research
  - Generation of data necessary to support the appropriate application of the informatics technology
  - Integration of informatics tools to support the research goals
  - System installation and configuration at a adopting institution

RFAs anticipated summer, 2019
ITCR 2019 Planning Committee

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