Improving Tracking Mechanisms for Utilizing Shared Resources to Identify Key Contributors in the Facilitation of Clinical Trials

SYLVESTER COMPREHENSIVE CANCER CENTER
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NCI Cancer Center
A Cancer Center Designated by the National Cancer Institute

Background

As a National Cancer Institute (NCI)-designated cancer center, Sylvester Comprehensive Cancer Center (Sylvester) is mandated to monitor and document the utilization of the Shared Resources (SR) by Principal Investigators. We have implemented a RedCap database to track the usage of the SRs involved in the application of grants by Sylvester members.

Research support from SRs enables Principal Investigators to prepare optimally robust grant applications, thereby enhancing award chances. Once secured, these awarded grants pave the way for clinical trials implementation. The achievement of establishing this tracking mechanism emphasizes the importance of tracking SRs utilization for grant applications to advance scientific research through the initiation of clinical trials.

Goal

To increase the efficiency and effectiveness of tracking SRs utilization at Sylvester through the implementation of the RedCap database, by enhancing our ability to identify key resource contributors for successful grant submissions and clinical trial activation.

Solutions and Methods

- **RedCap Database Implementation:** Set up a centralized database to track SR utilization efficiently.
- **Standardized Data Entry:** Create uniform procedures for data entry to ensure accuracy and consistency.
- **Integration with Grant Submissions and Awards:** Connect the database with grant award processes to streamline resource identification.
- **Data generation:** Capture data through targeted surveys to investigators.
- **Performance Metrics:** Develop metrics to analyze resource usage patterns.
- **Stakeholder Engagement:** Involve stakeholders in database development and seek their feedback for improvement.
- **Continuous Improvement:** Adapt and refine database based on evolving needs.

Outcomes

- Streamlined processes to identify SRs usage
- Improved accuracy in tracking SRs usage
- Data-driven resource allocation
- Survey data captured on 26 recently awarded extramural grants
- Identified the SRs that made a significant impact in research support

Examples of Survey Results for Grant Awards Supported by Shared Resources*

Pre-Clinical Testing of Low-Intensity Ultrasound as Novel Strategy to Prevent Paclitaxel-Induced Hair Follicle Damage in a Humanized Mouse Model of Chemotherapy-Induced Alopecia
Work supports Xu
Supported by BBSR, BSSR, CMSR, FCSR, OGSR

The Role of Diffuse Large B-Cell Lymphoma Genome Complexity in Shaping Immune Responses to Anti-CD 19 Chimeric Antigen Receptor T-Cell Therapies.
Work supports Schatz, Alderuccio, Maura
Supported by BBSR, BSSR, CMSR, FCSR, OGSR

3/4-The INTEGRATE Study: Evaluating INTEGRATEd Care to Improve Biopsychosocial Outcomes of Early Liver Transplantation for Alcohol-Associated Liver Disease
Work supports Goldberg, Solle Supported by BCSR

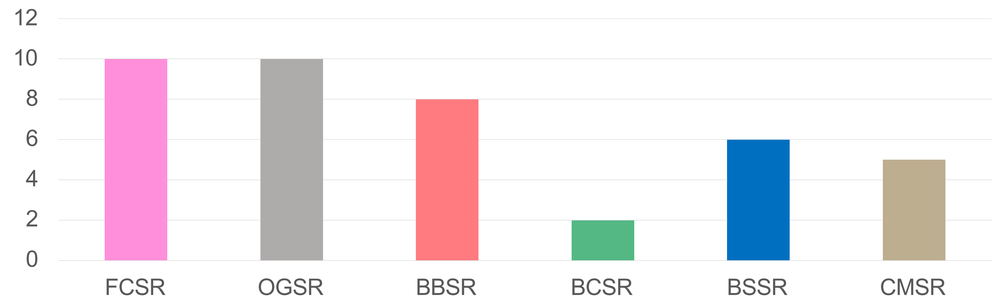
Enhancing TET Activity for the Treatment of Hematological Malignancy
Work supports Cimmino
Supported by BBSR, CMSR, FCSR, OGSR

*Grants awarded using the SRs (FY) is June 1, 2023 – November 30, 2023

Shared Resources

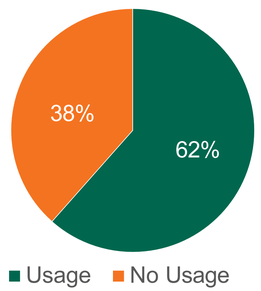
- Flow Cytometry Shared Resource (FCSR)
- Onco-Genomics Shared Resource (OGSR)
- Biostatistics and Bioinformatics Shared Resource (BBSR)
- Behavioral and Community-Based Research Shared Resource (BCSR)
- Biospecimen Shared Resource (BSSR)
- Cancer Modeling Shared Resource (CMSR)

Survey Results of Grant Awards Facilitated by Shared Resources Over a Six-Month Period*



*Grants awarded using the SRs (FY) is June 1, 2023 – November 30, 2023

SR Usage by Awarded Grants



Awarded grants by utilizing SRs.

Future Directions

The database's implementation facilitates strategic decisions regarding SR investment and impact on clinical research

1. Expand analytics and reporting capabilities.
2. Integrate the system with other institutional databases
3. Enhance shared resource management processes in clinical research.