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Shondra Pruett-Miller, PhD VP, Cancer Center Shared Resources



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- Shared Resources DO MORE WITH SHARED RESOURCES

 Institutional investment provides researchers access to complex instrumentation and expert staff





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- Institutional investment provides researchers access to complex instrumentation and expert staff
- $\circ$  Provide:
  - ✓ Access to instrumentation too costly/impractical for a single laboratory
  - ✓ Expert advice with experimental design and execution
  - ✓ Assistance with data acquisition, interpretation and presentation
  - ✓ Instrument training where appropriate



Shared

Resources



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- Reduce the need for faculty to hire niche experts in particular technologies and offsets skill set turnover in research labs
- Enhances the fraction of a PI's budget available for research
- Ensures appropriate maintenance of complex equipment and that instrumentation and technologies are contemporary
- Provides cost savings through consolidation of service contracts
- Institutional funding insulates shared resources from fluctuations in extramural funding
- Large equipment grants are ~difficult to obtain in the US







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Shared Resources



















- Appropriately trained and engaged staff are the key to success
  - Invest in training to build key talent
  - Devote time to R&D as appropriate

• Invest in, and emphasize, culture and community







Shared Resource Seminar Series

- o For the SR Staff
- Invite faculty to present research stories – emphasize and highlight SRs and individual staff
- Very popular with both faculty and SR Staff



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### Shared Resource Expo

- Open to all faculty and staff
- SR teams present posters / slide shows showcasing their resources
- Very popular across the board
- Enhances visibility of SRs





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### Shared Resource "Spring Fling"

- Open to all faculty and staff
- Focus on showcasing Shared Resource Center facilities
- Food, music, guided tours, quizzes
- Very popular event





















#### SRM2 SHARED RESOURCE MANAGEMENT SYSTEM



#### Welcome to SRM2

SRM2 is a next-generation shared resource management system designed and developed by the Research Informatics division of Information Services. It is designed to facilitate online ordering of services, core lab workflow/process management (LIMS), invoicing for services rendered, and reporting.

We hope you find SRM2 to be a useful tool for your work, please notify SRM Analysts should you encounter any issue or wish to suggest modifications by submitting your request using <u>St. Jude</u> <u>Service Portal</u>.



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	Center for Modeling Pediatric Diseases	Service 06: Proteome Profiling by SILAC	Cell Line Assessment (Virus & Bacteria PCR)	Mapping and Methylation	Light Microscopy Services	Center for Translational     Pharmacology	Method Qualification     Method Validation (	n (MQ) MV)					
	Project Idea Submission	Service 07: Proteome Profiling by	CPC Laboratory Services	(Illumina)	Axioscan	Structural and Connectivity	Formulation (FM)     Sample Check-In (S	C)					
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#### **Consolidation of Shared Resources**

- Requires robust and traceable mechanism for sample movement
- Sample Management Program (SMP) developed
- Partnership between Shared Resources, Materials Management & Information Services





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- Sample Management Program (SMP) developed
- Partnership between Shared Resources, Materials Management & Information Services
- Dedicated drop-off and pick-up locations
- Coordinated sample transfer between buildings
- Shared Resource Management system integration for sample tracking





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## **Institutional Shared Resources**

Finding cures. Saving children.

Center for Advanced Genome

Engineering (CAGE)





Flow Cytometry & Cell Sorting









- Light Microscopy
- Electron Microscopy
- Imaging Informatics

Center for Bioimage

Informatics (CBI)

Cell & Tissue Imaging – Electron Microscopy



Finding cures. Saving children.

Khaled Khairy, PhD



























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Shared Resource Administration

- $\circ~$  Annual institution-wide survey of faculty, research staff, trainees & students
  - Services that are working well

Office of Academic 8

- Services that can be sunset/outsourced
- Services that are missing

#### Business Assessments

- Metrics for utilization, capacity, turnaround times and baseline resource requirements
- Rolling review of service catalog(s)
- Considerations of cost and volume drivers and Key Performance Indicators (KPI's)
- Recovery rate targets
- Budgeting
  - Budget health
  - Projections
  - Requests / justifications for onboarding of new technologies
  - Support for deployment of new technologies (e.g. SLA negotiations)
  - Support for additional staffing as and where appropriate

Faculty L Shared F Advisory Committe













*"From innovative technologies to expert support, shared resources expand the capabilities of basic and translational research"* 





Finding cures. Saving children. ALSAC • DANNY THOMAS, FOUNDER