

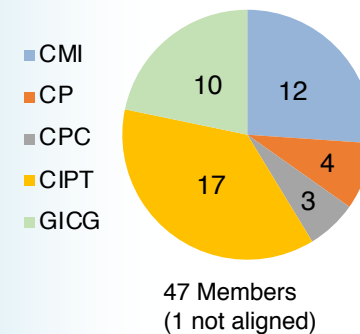
Aims

- The BISR offers services that analyze multi-dimensional data sets, including genomic analyses and high-resolution imaging, through the development and implementation of machine-learning technologies in high-performance computing environments
- Through our extensive nationwide collaborations we are establishing CINJ as a leading resource in medical informatics by augmenting the Clinical and Research Data Warehouse (CRDW) capabilities to automate extraction, mapping, warehousing, and mining of data

Attachments available

- Publications
- Grants
- 5-year user list
- FY23 Advisory Committee Presentation
- FY21 – FY23 Advisory Committee Action Items
- FY21 – FY23 Advisory Committee Notes
- CY20 – CY22 Satisfaction Survey Action Items
- CY22 Usage
- Submitted Research Strategy
- Submitted Aims
- Submitted SRM Research Strategy

Research Program Support (2018–2022)



Publications

Total	145
Co-Authored	28
IF>10	17

Peer-Reviewed Grants

All	18 (2T)
NCI	14 (2T)

Scientific examples to be shown

- J Med Chem, 2021 64(1):890-904
- Int J Comput Assist Radiol Surg, 2021 Feb;16(2):197-206
- J Pathol Inform, 2022 Jan 5;13:5
- Cancer Res, 2021 Nov 1; 81(21): 5523–5539

Services & Innovation

New

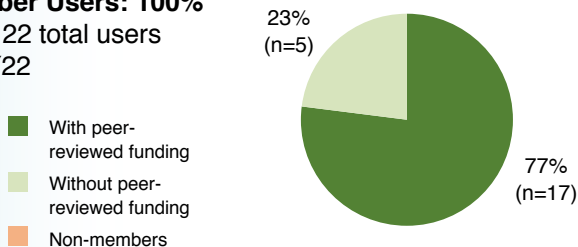
- Design, develop and optimize high-throughput processing and evaluation of digitized microscopy, radiologic imaging studies, genomics, and clinical correlates using cloud and supercomputing resources
- Automate extraction, mapping, warehousing, and mining of data originating from EMRs, clinical trials management systems, NGS studies, and pathology & radiology image archives
- Develop and optimize computational cutting-edge decision support algorithms, methods, and strategies to guide choices in treatment and therapy planning

Continuing

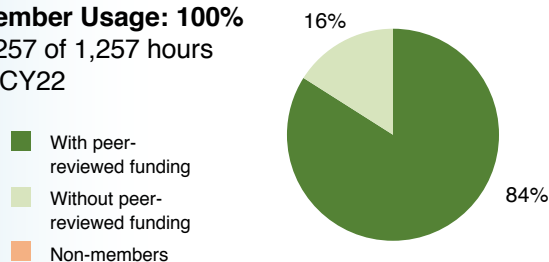
- Design and perform next-generation sequencing analysis to classify tumors and identify putative cancer driver genes, oncogenes, tumor suppressors, and genetic pathways
- Offer advanced multispectral imaging, color-decomposition and quantum dot conjugate technology to facilitate whole-slide, fluorescence, & advanced digital microscopy applications
- Provide advanced training, workshops, seminars, and educational programs for members, trainees, and more broadly the Rutgers community

Utilization & Management

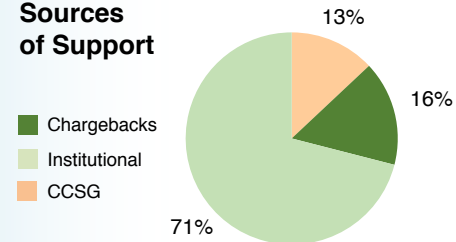
Member Users: 100%
22 of 22 total users in CY22



Member Usage: 100%
1,257 of 1,257 hours in CY22

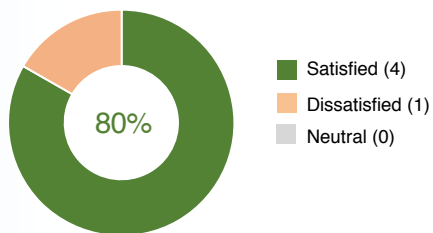


Sources of Support



FY24 Chargeback target: 20

Satisfaction Survey for CY22 services



Participated: 5 of 22 members (23%)

Organization & Governance

BISR

8.0 FTE



SRACs

- Advisory Committee meets annually
- Discusses operational and scientific progress
- SRM supports organization



SRM

- SR Faculty Directors report to the ADSR
- SRM tracks and supports SRAC recommendations, productivity, service development, outreach



CINJ Director

- RLC
- Finance & Admin
- EAB