

Immune Monitoring & Flow Cytometry Shared Resource

Aims

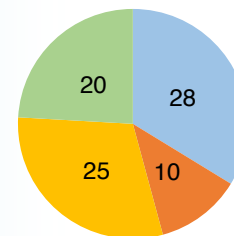
- The IMFC SR supports immune monitoring, Flow Cytometry phenotyping of tissue-infiltrating and circulating immune cells, cytokine and chemokine characterization and RNA analysis using NanoString nCounter technology
- We support the Good Manufacturing Practice by providing Replication Competent Retrovirus and Vector Copy Number Assays
- We invest in training & education with hands-on demonstration to CINJ basic and clinical researchers

Attachments available

- Publications
- Grants
- 5-year user list
- FY23 Advisory Committee Presentation
- FY21 – FY23 Advisory Committee Action Items
- FY21 – FY23 Advisory Committee Notes
- CY19 – CY22 Satisfaction Survey Action Items
- CY22 Usage
- Submitted Research Strategy
- Submitted Aims
- Submitted SRM Research Strategy

Research Program Support (2018–2022)

- CMI
- CP
- CIPT
- GICG



83 Members

Publications

Total	110
IF>10	33

Peer-Reviewed Grants

All	55
NCI	21

Scientific examples to be shown

- Cancer Cell 2023, 41(1):58–69
- Nat Cancer, 2022, 3(1): 60–74
- Blood, 2022, 140(19): 2076–2090
- Nat Cancer, 2020, 1(9): 923–934

Services & Innovation

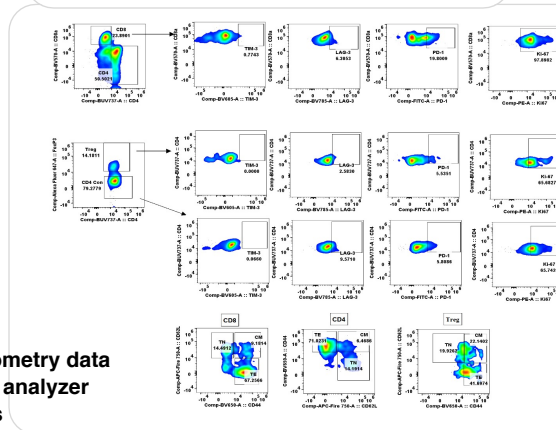
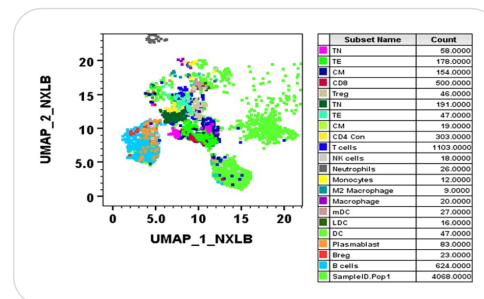
New

- Cytek Aurora spectral flow cytometer
- Cytek Aurora spectral high-speed cell sorter
- xCELLigence RTCA
- 24x7 Flow Cytometry

Services supporting clinical trials

- Clinical trial study design
- Tissue processing, including 10x single-cell prep
- Spectral flow cytometry
- Ncounter NanoString
- Luminex assay for cytokine, chemokine detection

26-color spectral Flow Cytometry data generated on Cytek Aurora analyzer from mouse tumor samples



Continuing

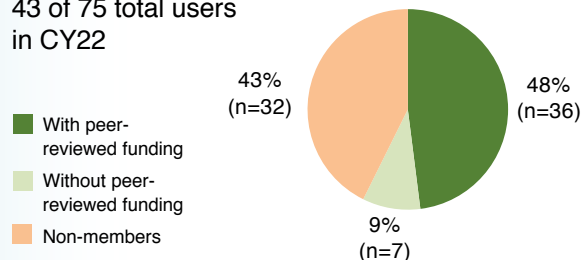
- Flow Cytometry
 - 2 Attune NxT
 - FACSymphony A3 (S10-funded)
- High Speed Cell Sorting
 - MA-900
 - FACSAria Fusion
- Training
- Consultation, data analysis and interpretation

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Utilization & Management

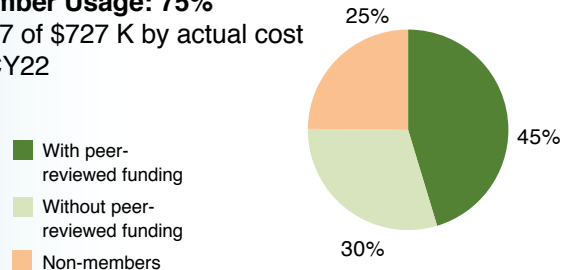
Member Users: 57%

43 of 75 total users in CY22

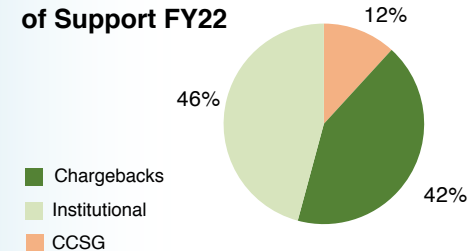


Member Usage: 75%

\$547 of \$727 K by actual cost in CY22

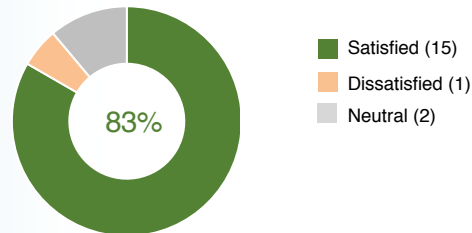


Sources of Support FY22



FY24 Chargeback target: 45%

Satisfaction Survey for CY22 services



Participated: 18 of 43 members (42%)

Organization & Governance

IMFC SR

6.6 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