

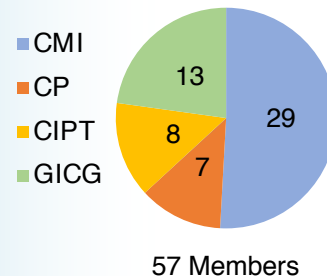
Aims

- Co-managed by CINJ and Rutgers Office for Research, the GESR has seen significant growth since the last site visit
- The GESR impact on members' science is best highlighted by the central role of the Managing Director in a new NCI P01 and involvement in two NCI R01s awarded to the GICG and CMI programs
- The GESR produces genetically engineered mouse models using CRISPR-CAS9 gene-editing technology, including the design and validation of CRISPR reagents, and performs custom genome editing of human and mouse cell lines

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	35
IF>10	9

Peer-Reviewed Grants

All	41 (2T)
NCI	17 (2T)

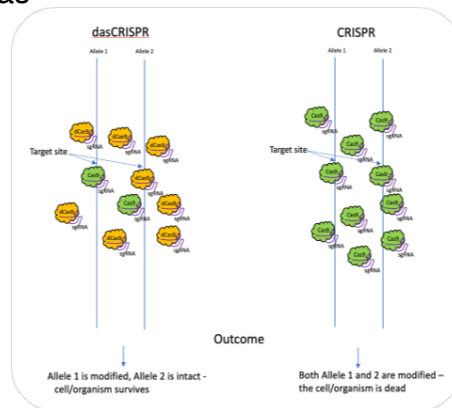
Scientific examples to be shown

- Cell Reports, 2022, 39(6):110794
- Blood Cancer Discov, 2021 2(1):92-109
- Cancer Res, 2021, 81(21):5523-5539
- Cancer Res, 2019, 79(16):4099-4112

Services & Innovation

New

- Electroporation to introduce CRISPR reagents into mouse embryos, resulting in a more efficient generation of mouse models and the ability to modify embryos generated by IVF
- Developed novel method to allow for modification of a single target allele as shown below



Continuing

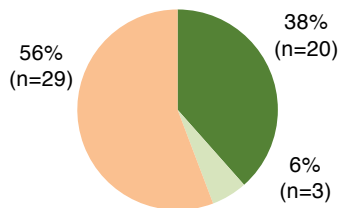
- Cell line editing
- Mouse line cryopreservation
- Mouse line rederivation
- Expression vectors and viral vectors for in vivo gene editing

Utilization & Management

Member Users: 44%

23 of 52 total users
in CY22

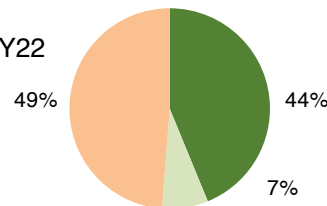
- With peer-reviewed funding
- Without peer-reviewed funding
- Non-members



Member Usage: 51%

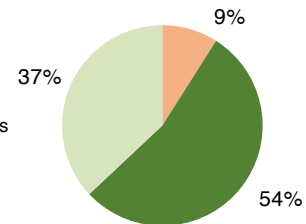
\$212K of \$414K
by actual cost in CY22

- With peer-reviewed funding
- Without peer-reviewed funding
- Non-members



Sources of Support

- Chargebacks
- Institutional
- CCSG



Satisfaction Survey for CY22 services



- Satisfied (14)
- Dissatisfied (0)
- Neutral (0)

Participated: 14 of 23 members (61%)

Organization & Governance

GESR

6.1 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

FY24 Chargeback target: 50%