

Core Facilities Brown Bag

May 8, 2024

Agenda

1. VPR Eric Perreault : Core Staff Conversation
2. Prepping for FY2025
3. Changes to grant program (development proposals)
4. ABRF Debrief
5. NUcore Update

VPR Eric Perreault : Core Staff Conversation

FY25 Preparations

- ❑ Schedule Oversight Committee meetings (if needed)
 - Finalize budgets / cost studies for FY25
 - Develop plans for grant applications (expect 2 competitions)
 - MRI Limited submission in mid-August

- ❑ Budgets
 - Confirm expectations with your business offices.
 - Assume expectations will be same for FY2025 onward.

- ❑ Cost Study
 - CFA is now providing feedback on expected revenue on cost study vs midyear projections and end of year performance.
 - Evaluate past assumption regularly!
 - Cost study should not have a planned deficit

- ❑ Ongoing: update appendices at <https://app.smartsheet.com/>
 - New space
 - Staffing changes
 - CFA will add equipment annually

Changes to Grant Program

- ❑ Still twice per year. Assume early September and February due dates
 - ReLODE prioritizes September submissions
 - Similar budgets expected
- ❑ AVP permission needed to submit more than two grant proposals per competition
- ❑ Adding Service Development Proposal
 - Goal is to create ongoing revenue
 - \$5K-\$50K requests
 - Previously funded through operations requests
 - Same eligibility rules
 - Cross core and new service lines emphasized
 - Not intended to expand cores or supplement equipment grants

ABRF Updates

- ❑ Reminder For 2024, FSM/CFA will pay for ABRF memberships for core staff who wish to utilize ABRF resources
 - More details at: <https://www.abrf.org/>
 - Email Andy if interested
 - If a group is interested in a topic to test out, create a viewing part

Topics

- ❑ AI
- ❑ Advocation
 - Include non bio technologies
- ❑ Core Management
- ❑ Publications
- ❑ Rigor Reproducibility and Transparency
- ❑ Spatial –omics
- ❑ Volume EM

Publication Tracking

- ❑ Current tool based on authors / usage
 - https://tableau.northwestern.edu/#/site/OR/views/CorePublicationTracking_2023/2023CorePublicationReporting
 - Requires manual verification
- ❑ New tools coming online
 - RRID becoming widely adopted as persistent identifier for cores
 - Model / Instrument level RRID's can now be requested
 - AI based tools to look backward
- ❑ Next steps
 - Update RRID for core / claim your core
 - Determine which instruments need RRID's
 - Define list of terms 10-20 that need should be searched along with RRID's (key S10, instrument names, SHyNE ...)
 - NU requesting to beta test AI solution from UNC
 - Estimating near end of 2025
 - Contact [Andy](#) if interested in pursuing.

The screenshot shows the CORE MARKETPLACE interface. At the top, there's a navigation bar with 'CORE MARKETPLACE', 'SEARCH HELP', 'ANNOUNCEMENTS', 'EXTRAS', 'NEWS', and 'MANUAL'. Below that, a search bar contains 'SEARCH | ADD/EDIT MY FACILITY'. The main content area displays search results for 'Your search for: IMSEC in each profile found 2 core facilities'. Two results are shown:

| Facility Name | Location | Description | Last Updated |
|--------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Integrated Molecular Structure Education and Research Center (Major Instrumentation) | Northwestern University, Evanston, IL 60208 | Amino Acid Analysis, Assay Development, Assays and Measurements, Cell Imaging, Clinical Imaging - Small Animal (X-ray, Ultrasound, microCAT, MRI), Clinical Research Coordination/Scheduling, Clinical Trial Support, GC, Glycolipid Analysis, High-throughput Screening, HPLC, HRAM Mass Spectrometry, Lignin Analysis, Lipidomics, Mass Spectrometry, Metabolomics, Molecular Imaging, Nuclear Magnetic Resonance (NMR), Shared Instrumentation Oversight & Maintenance, Single Crystal X-ray Pattern Analysis, Small Molecule Compound Screening, Spectroscopy, Thermal Analysis, Untargeted Mass Spectrometry, X-Ray Crystallography, X-ray Diffraction and Scattering | 11/10/2020 |
| Biological NMR Center | Northwestern University, Evanston, IL | | 06/20/2016 |

The screenshot shows the SciCrunch Registry interface. At the top, there's a navigation bar with 'Home / Resource Reports / Tools'. Below that, a search bar contains 'SEARCH Type in a keyword to search'. The search results for 'Novaseq' are displayed:

Filter by records added date
See new records

On page 1 showing 1 ~ 17 out of 17 results

Options: Log in for Collection Options

Facets: Resource Type, Keywords

Can't find your tool? Help us by registering it into the system - it's easy. Register it with the SciCrunch Registry. An RRID will be generated in 1-2 business day.

Click the to add this resource to a Collection

Options: Snippet view, Table view, Download

Novaseq

Options: Save search, Reset search

Options: Illumina NovaSeq X

RRID:SCR_024569

<https://www.illumina.com/systems/sequencing-platforms/novaseq-x-plus.html>

Updated NovaSeq to NovaSeq X. NovaSeq X Sequencing System achieves lower cost per genome by packing more genomes per flowcell, and that is because each flowcell has more wells for more fragments. NovaSeq X uses single flow cell.

Proper citation: Illumina NovaSeq X (RRID:SCR_024569) Copy

Source: SciCrunch Registry

NUcore Update

- ❑ Cross Core Collaborations

August 24th Brown Bag from 2pm-3pm

- Save the date!

- Email Andy with topics you would like to see
 - More on publication tracking
 - Contracts best practices
 - Rigor, Reproducibility, and Transparency