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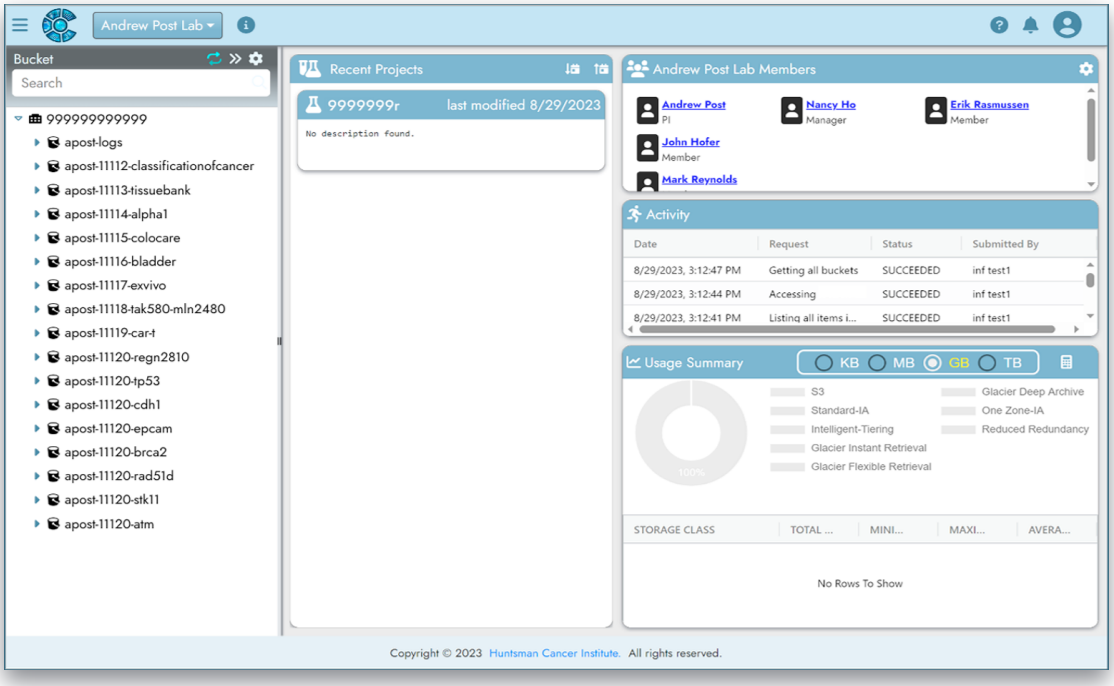
Web-based Research Data Desktop for Object Management

CORE Browser

Comprehensive Oncology Research Environment Browser



USE

Centrally view, manage, store, share, and organize research files located anywhere

INTEGRATION

- Access application via web browser
- Cloud-Based Storage Support (AWS S3)
- Future integration with GNomEx, CORE, IQ and other cloud-base storage providers
- Future integration with third-party bioinformatic analytic tools

COLLABORATION

Partnered with HCI's Cancer Bioinformatics (CBI), researchers can manage HCI High-Throughput Genomics (HTG) genomic experimentation and bioinformatic analysis files

RISR Research Informatics Shared Resource

risr.hci.utah.edu

The Comprehensive Oncology Research Environment Browser (**CORE Browser**) application, developed by the Huntsman Cancer Institute (HCI) Research Informatics Shared Resource (RISR), is a web-based research data desktop where researchers can centrally view, manage, store, share, and organize their research files located anywhere.

Unlike other HCI RISR applications, CORE Browser is based on a **nested organization hierarchy model** to contain similar items within another. An organization (i.e. lab, department, etc.) owns all their data and decides who is allowed access.

CORE Browser's robust design creates a hassle-free central hub for users to manage their research data located across multiple platforms; even cloud-based storage.

CORE Browser currently supports Amazon Simple Storage Service (AWS S3) along with power user access to AWS command line interface (CLI). Plans to expand cloud-based storage support in future releases.

Partnered with HCI's Cancer Bioinformatics (CBI), researchers can easily manage their HCI High-Throughput Genomics (HTG) genomic experimentation and bioinformatic analysis files. Additional sequencing and analysis data will be available in the future integration of GNomEx.

CORE Browser security maintains PHI and HIPAA compliance while being organization-centric. Changing the organization context in CORE Browser refreshes the screen to reflect the selected organization's data.

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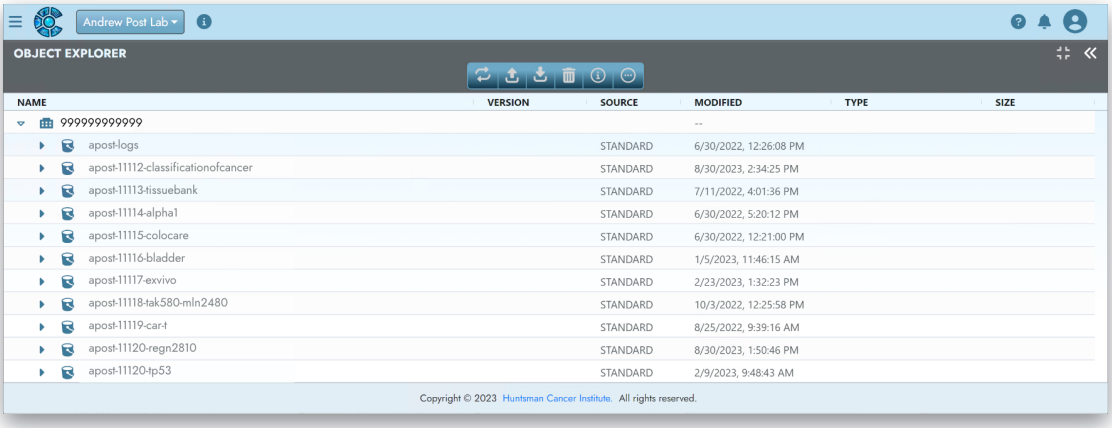
REPORTING

Experiment results and downstream analyses can be downloaded as individual files or at the folder level

SECURITY

Maintains PHI and HIPAA compliance. As an organization-centric application, the organization has full control over their data and can share data with collaborators

CORE Browser Features



Central Hub – View organization-specific accounts and content in one centralized location.

Object Management – Access, manage, store, share, and organize objects (i.e. buckets, folders, etc.) located anywhere. Includes the ability to upload, download, archive, unarchive, create, delete, duplicate, and move.

Genomic Data – Manage experiment and analysis files performed by HCI's High-Throughput Genomics and Cancer Bioinformatics. Integration with third-party bioinformatic analytic tools in future releases.

Member Management – Easily manage the organization's members and permissions within the app.

Tags (Annotation) – Supports tagging object characteristics and metadata.

Versioning – Allows researchers to keep versions of their objects. Feature can be disabled during bucket creation.

Trash – View and manage objects that are deleted in a versioned bucket. Users can either restore the object or delete it forever.

AWS CLI Compatibility – Power users can obtain temporary credentials for AWS CLI.

Requirements

- Google Chrome (latest)
- Microsoft Edge (latest)
- Safari (latest)

Services Available

Training
Technical Support
Application Configuration
Application Development
Query and Report Generation

RISR
Research Informatics Shared Resource

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