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BaseSpace Correlation Engine Release Notes

V2.0.4

December 14, 2021

Introduction

These Release Notes detail the latest release of BaseSpace Correlation Engine, including known issues.

BaseSpace Correlation Engine provides an interface with tools and content for exploratory, preclinical, and early translational research in drug discovery and biotechnology research. The software is a multidimensional integration platform designed to search and correlate global collections of heterogeneous, large-scale experimental data across diverse platforms, organisms, and therapeutic areas.

Features

- Added notification to ask user to review automated platform selection at 'review and submit' step of import
- Enhanced Import REST API to support inclusion of supplemental report files
- Enhanced Biosetfeatures REST API to include option to return normalized rank score shown in meta-analysis
- Updates to improve import performance and provide improved feedback to user
- Security and performance improvements

Resolved Issues

- Fixed an issue where async import failed to write complete information to database
- Fixed an issue where wrong default platform was pre-selected during import
- Fixed an issue where obsolete custom platforms appeared in drop down at mapping step
- Fixed an issue where the count of features displayed during data mapping import step differed from actual number of features in imported biosets
- Fixed an issue where some biogroups were missing from Body Atlas Cell lines page
- Fixed an issue where biosets imported on NGS platforms mapped a small number of genes incorrectly
- Fixed an issue where bioset-bioset queries timed out and failed to load when very large biosets were compared

Known Issues

- Data filter does not return cell line results when filtering for copy number or somatic mutations in Cell Lines - Body Atlas
  - Work around: Browse for Body Atlas cell lines where CNV or SM data is present and open up individual datasets to inspect
- Export from Active Biogroups times out in studies with more than 20 biosets

- o Work around: Add biosets to Meta-analysis in smaller batches and export from Biogroup Results tab in Meta-analysis
- Region filter temporarily not present for Histone Ubiquitination, Histone Acetylation, Histone Methylation bioset inspectors
- 'Edit description' from Action drop down in Curated Studies temporarily disabled
    - o Work around: Load Study Inspector and click 'Edit description' button
- Clinical Trials map feature temporarily disabled

Data Content Summary

- Updated COSMIC – Somatic Mutations in cancer tissues and cell lines content

	Cancer Tissues	Cancer Cell Lines
Studies	46	22
Biosets	3,697	478

Note: Updates to cell lines are ongoing

- Updated L1000 Connectivity Map content (GSE70138)

Studies	21
Biosets	13,837

Note: Updates to L1000 content is ongoing

- Current overall content

	Added in 2021	Total Public Content
Studies	621	22,900
Biosets	20,189	155,254