BaseSpace Correlation Engine *Software Release Notes*
Part Number: 200005896
Ver: 00
Effective Date: --
Release Status: Released
Release Date: 03-Sep-2021
IP Classification: --
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BaseSpace Correlation Engine Release Notes

V2.0.3

September 7, 2021

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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 position verification checks on all genome builds. Genomic coordinates outside the range of known possible genomic coordinates will be dropped from uploads with a warning message to user
- miRNA features updated from mirBase16 to mirBase22
    - ~2-3X increase in number of miRNA features, depending on reference genome
    - Up to 20X increase in miRNA-gene target linkages, depending on reference genome
- Security and performance improvements

Upcoming Changes

- Old URLs of nextbio.com & *.ussc.informatics.illumina.com will be retired September 2021.

Resolved Issues

- Fixed issue where miRNA import was disabled
    - Public and private miRNA content have been reimported with updated feature information, as described in Features section
- Fixed an issue where new imported studies were missing from concept search results in Pathway Enrichment
- Fixed an issue where study indexing failed intermittently
- Fixed an issue where the EULA conflicted with single sign-on and IP restriction

Known Issues

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- Data filter does not return cell line results when filtering for copy number or somatic mutations in Cell Lines - Body Atlas
    - o 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

- With the introduction of BSCE v2.0, over 90% of all the public curated studies were migrated to the 2.0 application.

10/1/20	V1 Content	Not Migrated
Studies	23607	1744
Biosets	142539	8097

- The following table shows the current running totals of content including studies that are new to V2

8/17/21	V2 Content	New to V2
Studies	22668	1240
Biosets	149211	18580

- Going forward, BSCE public data additions will be primarily focused on the newest data appearing in Gene Expression Omnibus. Users are encouraged to use the request a study feature under Curated Studies/ All studies by submitted a Geo Series (GSE) id or PMID will links to the public available data.