

GENIE 18.0-public release notes

Sage Bionetworks

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Release notes

These release notes will encompass the changes made in the 18 consortium series and general center information.

- 20565 samples have been added since the last public release.
- New panel(s) since the last public release:
 - UHN-HM-V1
 - UHN-HM-V2
 - UMIAMI-CA-HYBRID-WES
 - DFCI-F1-AB1
 - DFCI-F1-CF2
 - DFCI-F1-CF3
 - GRCC-2030859
 - GRCC-2040388
 - GRCC-2040390
 - GRCC-2058737
 - GRCC-2061930
 - GRCC-2063107
 - GRCC-2067719
 - GRCC-2067720
 - GRCC-2105390
 - PROV-MPNC
 - PROV-AMLC
 - PROV-MPNT
- New center:
 - UMIAMI

Data Concerns/Issues

These are the known data issues for this release. **Note:** There could be more undiscovered issues.

- The number of expected genes in certain gene panels may be incorrect due to sites submitting invalid gene symbols, coordinates, or incorrect assay information.
- **CRUK**
 - Confirmed genomic data for **CRUK-TS** samples contain no artifacts.
- **CHOP**
 - Fusion panel includes genes that are not on the other panels/pipelines that generate the SNV and indel calls. No BED file for fusion panel.
 - Confirmed genomic data for **CHOP-STNGS** samples contain no artifacts.
- **MSK**
 - Confirmed genomic data for MSK HEME panel samples contain no artifacts.
- **DFCI**
 - Expected discrepancies in expected and submitted gene count because of regions that are targeted for calling structural rearrangements.

- **UHN**
 - Confirmed genomic data for **UHN-54-V1** samples contain no artifacts.
 - UHN has some duplicate bed regions in their processed data. This is a processing issue, no action is needed from sites.
- **YALE**
 - Intentionally reports only amplifications in copy number data due to internal policy.
 - **YALE-OCP-V2** panel's expected gene count is 134 because one intron is included. Gene panels are created with only exons hence the difference in actual vs expected gene counts.
- Foundation Medicine genomic regions discrepancy
 - **DUKE/WAKE** use the Foundation Medicine T5A, T7, DX1, R2D2 bait sets, but some of the bed files uploaded don't seem to match the expected gene count per panel.
- Not all variants have variant counts (t_depth, t_alt_count, t_ref_count).
- Duplicated variants listed from **VICC** are expected due to providing Tempus samples.
- Genome Nexus related issues:
 - Duplicated variants