

Overview

The Revio system instrument software v13.3 includes support for the Revio SPRQ™ sequencing chemistry, a new 6mA caller, improved 5mC calling, direct cloud file transfer capabilities, and various bug fixes and performance improvements.

Supported SMRT[®] Link versions

Revio instrument software v13.3 is compatible with SMRT Link v25.1 and SMRT Link Cloud.

New Features

- Added support for Revio SPRQ sequencing chemistry, including basecalling, consensus, and methylation-calling models. Revio (non-SPRQ) chemistry remains supported.
- Updated 5mCpG methylation caller, which increases accuracy of single CpG sites in individual reads.
- Added a new 6mA caller to support the Fiber-seq chromatin accessibility assay.
- Enabled direct file transfer to cloud storage buckets for Amazon S3, Google Cloud Storage, and Microsoft Azure Blob Storage.
- Added ability to connect to SMRT Link Cloud.
- Enabled generation of dataset report PDFs directly on the instrument, saved in the statistics directory.

Fixed issues

- Resolved condensation buildup on instrument chillers.
- Fixed flickering of the "Continue" button when an environmental warning was present during run loading.
- Improved HiFi yields in strand consensus mode, including for AAV libraries.
- Use "UNASSIGNED" rather than an arbitrary sample name in the read group header for unassigned.bam.
- No longer copy duplicate ".xml.bak" files to transfer output directory.

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PN 103-593-500 REV 01 (December 2024)