Illumina Experiment Manager (IEM) Software v1.18.1

Release Notes

For MiniSeq, MiSeq, NextSeq, HiSeq, and NovaSeq Systems

Introduction

These Release Notes detail the key changes to Illumina Experiment Manager (IEM) between the specific versions listed in the table below:

Software Application	**Prior Version**	**New Version**
Illumina Experiment Manager	1.16.1	1.18.1

During installation, previous versions of IEM will automatically be uninstalled. However, if you are upgrading from version 1.13 or earlier, then IEM must be uninstalled manually. Click **Start Menu, Control Panel,** and then **Programs and Features** to uninstall any prior version of IEM before proceeding with installation.

NEW FEATURES:

- Added support for the following Index Kits:
    - AmpliSeq CD Indexes (384)
    - AmpliSeq UD Indexes (24)
    - IDT-ILMN Nextera DNA UD Indexes (384 Indexes)
    - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set A
    - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set B
    - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set C
    - IDT-ILMN Nextera DNA UD Indexes (96 Indexes) Set D
- Updated the following Library Prep Kits to allow the new Nextera Index Kits
    - Nextera Flex for Enrichment
    - Nextera XT
    - Nextera DNA Flex
    - TruSeq Nano DNA
    - TruSeq Stranded mRNA
    - TruSeq DNA Exome Enrichment
    - TruSeq ChIP-Seq
    - TruSeq RNA v2
    - TruSeq Stranded Total RNA
    - TruSeq RNA Access
- Enforced usage of UMI Index Anchor Settings when using new Index Kits with the following library prep kits:
    - TruSeq Nano DNA
    - TruSeq Stranded mRNA
    - TruSeq DNA Exome Enrichment

- o TruSeq ChIP-Seq

- o TruSeq RNA v2

- o TruSeq Stranded Total RNA

- o TruSeq RNA Access

- Added support for multi-plated index kits.

- Renamed AmpliSeq Library Prep Kit to AmpliSeq Library PLUS for Illumina.

DEFECT REPAIRS:

- None

KNOWN ISSUES:

- The "Variant Quality Cutoff" setting does not get populated with the correct value when editing a Sample Sheet that contains the "VariantFilterQualityCutoff" setting.

- The "NovaSeq XP workflow" checkbox becomes unchecked whenever a "Library Prep Workflow" is selected.

- The appearance of the software's user interface may be distorted when the Windows operating system display settings are configured to use enlarged font sizes. To remedy this, change the Windows font size display settings to 100%.

- If a sample sheet with .csv format is uploaded, the settings fields are not populated in the application.