MOLECULAR TARGETS PLATFORM (MTP)

Latest Release: v2.1
07/24/2023

New Interactive Plot Displays:

- Improved plot generation for the OpenPedCan Gene Expression and Differential Expression widgets to leverage the Plotly R Open Source Graphing Library (https://plotly.com/r/)
  - Enables user interactivity with plots (zoom, pan, hover details, etc.)
  - Allows user to export full or zoomed chart sections as png files for external use
  - Improves plot loading time
- Improved data downloads for the OpenPedCan Gene Expression widgets to provide user with biospecimen-level TPM measurements

Release v2.0
06/02/2023

New Data:

- PBTA X01 CNS/Spinal Cord Tumors (WGS and RNA-Seq data)
- PBTA Chordoma Foundation Tumors (WGS and RNA-Seq data)

Updated data and datatypes in existing Datasets:
- TARGET – added methylation data
- PBTA – added additional Oligodendroglioma samples (WGS and RNA-Seq data)
- PBTA – added methylation data

Updated Gene Expression graph:
- Added tabs for Pediatric cancer vs TGCA data in linear and Log10 views.

Code Updates:
- Reharmonized all OpenPedCan data to GENCODE v39
- Updated MTP's OT codebase from 22.04 to 22.11
- Updated EFO IDs from v3.45.0 to v.3.47.0
- Updated ENSG IDs or Gene Symbols in the PMTL list to be in sync with OT 22.11
- Modified Somatic Alterations and Gene Expression widget subtitles
- Added HGVS "g" column to the Somatic Alterations "SNV by Variant" tables
- Added "Epigenetic Modification" (EM) widget to capture methylation data in tabular form
- Added "Differential Expression" (DE) widget to display a heatmap for non-batch corrected data which can be viewed as:
  - Top differentially expressed genes in one disease vs. GTEx normal tissue
  - One gene in pediatric cancers vs. GTEx normal tissue

- Added Methylation and Differential Expression columns to PCDN results page
- Improved ETL processes and data validation processes
- Added > 100 automated test cases for data validation

_____

Release v1.1
12/12/2022

New Data:

    Added Cohorts:

- TARGET DNA Somatic Alteration Panel
- CHOP DGD (Division of Genomic Diagnostics) RNA Fusion Panel

Updates:

- Updated the PMTL list to reflect the FDA's 9-9-2022 listing
- Added 22 new Pediatric Cancer Diseases (63 total)
- Updated EFO IDs to v3.45.0

New Features:

- Improved the visibility of FDA's PMTL documentation.
- Added a downloadable User Guide with step-by-step MTP instructions.
- Added a GraphQL API page to support single entity queries.
- Created a separate Change Log page for improved viewing.
- Added a Latest Release page for at-a-glance updated information about what has changed with each release.