



MOLECULAR TARGETS PLATFORM (MTP)

Latest 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 Histologies:

- Added 31 Pediatric histologies (94 total)

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