PROTEOME™ (HumanPSD™+TRANSPATH®) release 2020.3

The Human Proteome Survey Database (HumanPSD™) with focus on human proteins as disease biomarkers and drug targets contains these new features:

- **Quick access box on start page**

  Browse all human gene, disease, and drug entries in HumanPSD and access the detailed reports directly.

- **Keyword Search**

  UniProtKB accessions, EntrezGene IDs, and BKL primary and secondary accessions can now be used as input in a keyword search.

- **Disease entry for COVID-19**

  A dedicated entry for COVID-19 based on data from the MeSH 2021 preview release was included. It contains more than 1,900 clinical trials related to the disease provided by the AACT database and clinicaltrials.gov.

- **More Clinical Trial and Biomarker data**

  New data from clinicaltrials.gov and manual disease biomarker curation by experts have increased the number of CT-Disease-Drug assignments to 695,136 and the number of disease annotations to 344,832.

  Improved processing of clinical trials data using the AACT database has contributed to these elevated numbers.

The TRANSPATH® database on mammalian signal transduction and metabolic pathways contains these new data features:

- **Increase in number of reactions**
  15,202 new binding reactions between proteins in human have been added, among them e.g. from the IFN-beta stimulated and unstimulated interactome or the beta-actin interactome.

- **Interactions between SARS-CoV-2 and human proteins**
  For 26 SARS-CoV-2 proteins, 330 interactions with protein targets in human cells were imported (Gordon, D. E. et al., Nature 583, 459-468 (2020), Pubmed 32353859).

- **Update of links to pathway databases**
  Links from genes/proteins to the pathway databases Reactome (version 73) and Wikipathways (20200710) have been updated. Wikipathways links now also include zebra fish (Danio rerio) and SARS-CoV-2 related pathways.