PROTEOME™ (HumanPSD™+TRANSPATH®) release 2018.3

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

- **Human Protein Atlas version 18 data integration**

    This release includes more than 1.9M protein and RNA expression observations in human tissues/organs, cell types and tumors imported from the Human Protein Atlas.

- **More Clinical Trial data**

    New data from clinicaltrials.gov, ChEMBL v24, and manual curation by experts have increased the number of Clinical Trial-Drug assignments to 199,098, leading to a total of 390,258 CT-Disease-Drug assignments.

- **Drug targets and metabolizing enzymes from ChEMBL**

    14,659 drug - protein target and enzyme - drug relationships have been imported from ChEMBL v24.

- **miRBase v22 update included for species covered by HumanPSD**

    Besides updates for existing entries, the new version integration provides 175 new precursor miRNA and 235 new mature miRNAs.

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

- **Significant increase in number of reactions**

    45,352 new binding reactions between proteins in human and mouse have been added, among them e.g. interactions from non-canonical NF-kappaB signalling or the interactome associated with autism disorders.
    3,305 existing reactions were updated with additional experimental evidences from primary literature.