



## PROTEOME™ (HumanPSD™+TRANSPATH®) release 2021.2

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

- **Biomarker and drug data update**

The number of disease annotations increased to 358,353 and the number of unique gene/biomarker - disease assignments to 123,948. New FDA - approved drugs have been added and the number of drug - target protein associations is now 47,504.

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

- **BIOPLEX 1 and 3 interactome data imported**

Integration of BIOPLEX human interaction data from release 1 and 3 resulted in 131,566 new and 60,151 reactions updated with additional experimental evidence.

- **Human Reference Protein Interactome (HuRI) integrated**

45,468 new reactions were imported from the HuRI mapping project. In addition, 6,371 existing reactions were updated with experimental evidence from HuRI.

- **Additional increase in number of reactions**

29,662 new binding reactions between proteins in human have been added, among them e.g. from interactome in mitochondria and the bromodomain protein interactome.

- **Update of links to pathway databases**

Links from genes/proteins to the pathway databases Reactome (version 77) and Wikipathways (20210610) have been updated.