



PROTEOME™ (HumanPSD™+TRANSPATH®) release 2018.1

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

- **Improved biomarker retrieval from disease reports**

Biomarkers can be retrieved by type of association with the disease or by indication for the utility of the biomarker, matching the categories of the biomarker association table in a disease report. The sets of biomarkers can be exported or used as input for the PathwayBuilder visualization tool or processed by other tools.

- **Increased number of conditions in clinical trials mapped to diseases**

New data from clinicaltrials.gov and manual curation by experts has increased the number of Clinical Trial-Disease assignments to 664,258, leading to 362,881 CT-Disease-Drug assignments.

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

- **Cancer pathway list**

The canonical signal transduction pathway overview page now contains a section for pathways involved in the development of various types of cancer.



PROTEOME™ Statistics

HumanPSD™	Human	Mouse	Rat
Proteins	20,005	20,236	12,998
Mature miRNAs	2,589	1,911	766
Diseases / Disease Models	2,552	1,308	-
Drugs	8,199	-	-
References	218,095	103,300	55,975
GO Assignments	235,395	232,624	112,843
Expression Assignments	182,602	180,026	99,363
Gene-disease Assignments	110,183	6,273	-
Drug-protein Interactions	14,212	-	-
Clinical Trials	362,881	-	-
Clinical Trial – Disease Assignments	664,258	-	-
Clinical Trial – Drug Assignments	169,619	-	-
Phenotype Assignments	-	63,141	-
Annotations	455,930	299,381	193,748

TRANSPATH®			
Molecules	370,858	Pathways	190
Genes	108,859	Chains	1,526
Reactions	580,161	References	68,663

YEAST & WORM	S. cerevisiae	S. pombe	Fungal Pathogens	C. elegans
Proteins	6,689	4,998	19,932	20,745
References	36,686	4,600	4,455	6,485
GO Assignments	90,178	36,236	103,167	82,733
Phenotype Assignments	59,439	9,834	2,754	20,272
Annotations	877,922	99,501	73,294	325,258
Expression Assignments	-	-	-	9,512

PLANT	Arabidopsis	Rice	Maize	Soybean	Sorghum
Proteins	26,856	26,829	1,706	66,300	34,005
GO Assignments	235,314	97,184	10,407	254,107	137,890
Expression Assignments	383,973	22,210	3,620	-	-

PLANT – ALL SPECIES

Reactions	18,168	Pathways	324	References	8,242
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HumanPSD™ 2018.1 Release

TRANSPATH® 2018.1 Release

<http://genexplain.com/humanpsd>

<http://genexplain.com/transpath>