

GeDiPNet Cluster 141 -- Enriched GO Terms (Biological Process)

GO term enrichment: Biological Process terms (gene2go, human/tax_id=9606 only), upper-tail hypergeometric test, fold enrichment = (overlap / cluster gene count) / (term gene count / universe size), Benjamini-Hochberg FDR-corrected. Top 15 terms per cluster by q-value. See scripts/build_cluster_go_enrichment.php on gedipnet.bicnirrh.res.in. Data as of: 2026-10-07 03:23:06. · Rows: 15 · Generated: 2026-10-07 10:25:44

GO Term	GO ID	Overlap Genes	Overlap Gene Names	Term Gene Count	Cluster Gene Count	Fold Enrichment	P-value	FDR Q-value
peroxisome organization	GO:0007031	14	PEX6, PEX1, PEX10, PEX11B, PEX12, PEX14, PEX16, PEX19, PEX2, PEX3, PEX5, PEX7	23	27	421.29	2.254e-36	1.834e-32
protein import into peroxisome matrix	GO:0016558	11	PEX6, PEX1, PEX26, PEX10, PEX12, PEX13, PEX14, PEX16, PEX2, PEX5, PEX7	14	27	543.80	1.953e-30	1.068e-26
protein import into peroxisome matrix, receptor recycling	GO:0016562	9	PEX6, PEX1, PEX26, PEX10, PEX12, PEX13, PEX14, PEX2, PEX5	10	27	622.90	6.127e-26	2.122e-22
protein unfolding	GO:0043335	9	PEX6, PEX1, PEX26, PEX10, PEX12, PEX13, PEX14, PEX2, PEX5	12	27	519.08	1.346e-24	4.023e-21
protein targeting to peroxisome	GO:0006625	7	PEX6, PEX1, PEX12, PEX16, PEX19, PEX5, PEX7	10	27	484.48	6.738e-19	9.100e-16
protein import into peroxisome matrix, substrate release	GO:0044721	6	PEX10, PEX12, PEX13, PEX14, PEX2, PEX5	6	27	692.11	5.009e-18	6.042e-15
protein import into peroxisome membrane	GO:0045046	5	PEX26, PEX16, PEX19, PEX3, PEX5	6	27	576.76	2.550e-14	1.540e-11
protein import into peroxisome matrix, translocation	GO:0016561	4	PEX6, PEX13, PEX14, PEX5	4	27	692.11	3.455e-12	1.400e-9
cellular response to reactive oxygen species	GO:0034614	6	PEX10, PEX12, PEX13, PEX14, PEX2, PEX5	45	27	92.28	3.929e-11	1.236e-8
protein monoubiquitination	GO:0006513	6	PEX10, PEX12, PEX13, PEX14, PEX2, PEX5	55	27	75.50	1.385e-10	3.863e-8
peroxisome fission	GO:0016559	4	PEX11B, PEX19, PEX11A, PEX11G	12	27	230.70	1.697e-9	3.587e-7
peroxisome membrane biogenesis	GO:0016557	3	PEX16, PEX19, PEX11A	3	27	692.11	2.690e-9	5.364e-7
regulation of peroxisome size	GO:0044375	3	PEX11B, PEX11A, PEX11G	3	27	692.11	2.690e-9	5.364e-7
pexophagy	GO:0000425	4	PEX10, PEX12, PEX2, PEX5	18	27	153.80	1.043e-8	1.776e-6
protein import into peroxisome matrix, docking	GO:0016560	3	PEX13, PEX14, PEX5	4	27	519.08	1.075e-8	1.816e-6