

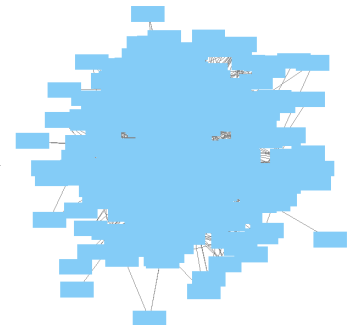
# Module 5: Network ontological analysis

Classify nodes upon ontological categories and properties. Relate nodes to ontology functional categories (biochemical activity, sub cellular localisation and functional role)



**GENERATE**

Context-specific sub-networks (from context-specific bioinformatic probe) (eventually FN expanded)



- JEPETTO
- BINGO
- ClueGO
- Enrichmentmaps
- GFD-Net
- ENViz
- cy3SBML

Comparison to reference database: (double-click to generate network) Save

Pathway or Process	XD-score	q-value	Overlap/Size
Pentose phosphate pathw...	0.38314	0.17890	2/20
Glycolysis / Gluconeogen...	0.26885	0.06058	3/42
Fructose and mannose m...	0.25900	0.25042	2/29
Ether lipid metabolism	0.24876	1.00000	1/16
Asthma	0.19366	1.00000	1/19
Glycerophospholipid met...	0.10456	1.00000	1/35
Malaria	0.08102	1.00000	1/42
Alzheimer's disease	0.07009	0.46614	3/138
Viral myocarditis	0.05331	1.00000	1/57
Focal adhesion	0.04825	0.83345	3/186
Arrhythmogenic right ven...	0.04765	1.00000	1/62
Bacterial invasion of epith...	0.04564	1.00000	1/64
Fc epsilon RI signaling pat...	0.04467	1.00000	1/65
Systemic lupus erythemat...	0.04284	1.00000	1/67
Pancreatic cancer	0.04028	1.00000	1/70
Adherens junction	0.04028	1.00000	1/70
ECM-receptor interaction	0.03653	1.00000	1/77
Calcium signaling pathway	0.03650	1.00000	2/152
TGF-beta signaling pathw...	0.03518	1.00000	1/79
Fc gamma R-mediated ph...	0.03497	1.00000	1/82
GnRH signaling pathway	0.03434	1.00000	1/83
Endocytosis	0.02948	1.00000	2/178
Regulation of actin cytosk...	0.02592	1.00000	2/187
Leukocyte transendotheli...	0.02395	1.00000	1/98
Amoebiasis	0.02395	1.00000	1/98
Neuroactive ligand-recep...	0.02104	1.00000	2/214
Axon guidance	0.01917	1.00000	1/111
Phagosome	0.01858	1.00000	1/116
Tight junction	0.01853	1.00000	1/113
Metabolic pathways	0.00853	1.00000	4/640
Pathways in cancer	-0.00371	1.00000	1/304
Drug metabolism - other ...	-0.01686	1.00000	0/16
Purine metabolism	-0.01686	1.00000	0/110
Primary immunodeficiency	-0.01686	1.00000	0/33
Cell adhesion molecules (...)	-0.01686	1.00000	0/104
MAPK signaling pathway	-0.01686	1.00000	0/233
ErbB signaling pathway	-0.01686	1.00000	0/84
Chemokine signaling path...	-0.01686	1.00000	0/170
mTOR signaling pathway	-0.01686	1.00000	0/49
Apoptosis	-0.01686	1.00000	0/81
VEGF signaling pathway	-0.01686	1.00000	0/62

Note: statistically significant results are highlighted.



Gene Ontology Consortium