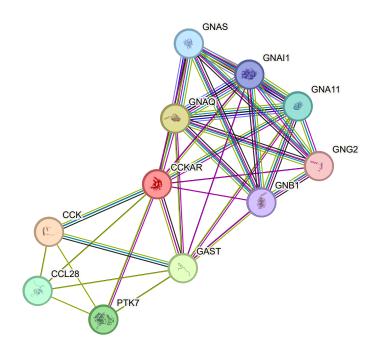
Version: 12.0 LOGIN REGISTER SURVEY

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Viewers Legend Settings Analysis Exports Clusters More Less

number of nodes: 11 number of edges: 35 average node degree: 6.36 avg. local clustering coefficient: 0.886 expected number of edges: 13
PPI enrichment p-value: 2.31e-07
your network has significantly more interactions
than expected (what does that mean?)

Functional enrichments in your network

Note: some enrichments may be expected here (<u>why?</u>)

explain columns

	Biological Process (Gene Ontology)				
GO-term	description	count in network	<u>strength</u>	signal	false discovery rat
GO:0007191	Adenylate cyclase-activating dopamine receptor signaling pathway	<u>3</u> of <u>10</u>	2.73	2.1	0.00014
GO:0007189	Adenylate cyclase-activating G protein-coupled receptor signaling	<u>4</u> of <u>145</u>	1.69	1.46	0.00068
GO:0007188	Adenylate cyclase-modulating G protein-coupled receptor signaling	<u>6</u> of <u>232</u>	1.67	1.97	2.01e-05
GO:0097306	Cellular response to alcohol	<u>4</u> of <u>96</u>	1.87	1.67	0.00035
GO:0070887	Cellular response to chemical stimulus	<u>8</u> of 2609	0.74	0.54	0.0052
GO:1901655	Cellular response to ketone	<u>4</u> of <u>103</u>	1.84	1.66	0.00035
GO:1901699	Cellular response to nitrogen compound	<u>5</u> of <u>637</u>	1.15	0.81	0.0065
GO:0071407	Cellular response to organic cyclic compound	<u>5</u> of <u>508</u>	1.25	0.98	0.0025
GO:1901701	Cellular response to oxygen-containing compound	<u>7</u> of 1057	1.07	0.99	0.00035
GO:0071380	Cellular response to prostaglandin E stimulus	<u>3</u> of <u>17</u>	2.5	1.88	0.00033
GO:0007212	Dopamine receptor signaling pathway	<u>4</u> of <u>31</u>	2.36	2.44	2.14e-05
GO:0007213	G protein-coupled acetylcholine receptor signaling pathway	<u>3</u> of <u>19</u>	2.45	1.85	0.00035
GO:0007186	G protein-coupled receptor signaling pathway	<u>8</u> of 1174	1.09	1.07	0.00012
GO:0007200	Phospholipase C-activating G protein-coupled receptor signaling p	<u>3</u> of <u>97</u>	1.74	1.02	0.0091
GO:0007603	Phototransduction, visible light	<u>2</u> of <u>13</u>	2.44	1.04	0.0126
GO:0042221	Response to chemical	<u>9</u> of 4010	0.6	0.43	0.0097
GO:1901698	Response to nitrogen compound	<u>6</u> of 1058	1.01	0.75	0.0044
GO:0010243	Response to organonitrogen compound	<u>5</u> of <u>963</u>	0.97	0.52	0.0400
GO:0007165	Signal transduction	<u>11</u> of 4714	0.62	0.52	0.00033
					(less)

	Molecular Function (Gene Ontology)				
GO-term	<u>description</u>	count in network	strength	signal	false discovery rate
GO:0001664	G protein-coupled receptor binding	<u>5</u> of <u>295</u>	1.48	1.29	0.00084
GO:0031683	G-protein beta/gamma-subunit complex binding	<u>4</u> of <u>22</u>	2.51	2.87	3.85e-06
GO:0005525	GTP binding	<u>4</u> of <u>381</u>	1.27	0.71	0.0233
GO:0003924	GTPase activity	<u>5</u> of <u>317</u>	1.45	1.27	0.00084
GO:0051428	Peptide hormone receptor binding	<u>2</u> of <u>19</u>	2.28	0.86	0.0260
GO:0005102	Signaling receptor binding	<u>7</u> of 1499	0.92	0.68	0.0046
					(less)

	Cellular Component (Gene Ontology)				
GO-term	<u>description</u>	count in network	<u>strength</u>	<u>signal</u>	false discovery rate
GO:0070062	Extracellular exosome	<u>7</u> of 2096	0.78	0.57	0.0051
GO:0005615	Extracellular space	<u>9</u> of 3247	0.7	0.57	0.00074
GO:0005834	Heterotrimeric G-protein complex	<u>6</u> of <u>35</u>	2.49	5.17	5.19e-11
GO:0005765	Lysosomal membrane	<u>4</u> of <u>417</u>	1.23	0.87	0.0062
GO:0001750	Photoreceptor outer segment	<u>3</u> of <u>98</u>	1.74	1.18	0.0037

	Reference Publications (PubMed)				
publication	(year) title	count in network	strength	signal	false discovery rate
PMID:11592053	() Peptidebenzodiazepine hybrids as ligands of CCK(A) and CCK(<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:30499543	() [Unilateral multifocal uveal melanoma (a clinical and genetic s	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:9160584	() Peptides and anxiety: a dose-response evaluation of pentagas	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:25932382	() Comparison of Anorectic Potencies of the Trichothecenes T-2	<u>2</u> of <u>8</u>	2.65	1.02	0.0142
PMID:28680759	() Parallel profiling of immune infiltrate subsets in uveal melano	<u>2</u> of <u>14</u>	2.41	0.82	0.0315
PMID:14209917	(1964) inhibitory effect of secretin and cholecystokinin on heidenh	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:6019986	(1967) Inhibitory action of cholecystokinin on acid secretion from	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:20184469	(1967) Inhibition of gastric acid secretion by intravenous cholecyst	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:4290022	(1967) The effects of secretin, pancreozymin, and gastrin on insuli	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
PMID:5687588	(1968) The actions of caerulein on the smooth muscle of the gastr	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:5694819	(1968) Antibodies to the C-terminal tetrapeptide amide of gastrin	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:4879882	(1968) The actions of caerulein on gastric secretion of the dog and	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:5788649	(1969) Effect of cholecystokinin and caerulein on gastrin- and hista	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:5799674	(1969) Secretory and immunochemical properties of gastrin and p	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:5824930	(1969) The action of caerulein on pancreatic secretion of the dog a	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:5770089	(1969) Effect of cholecystokinin, gastrin, and glucagon on human g	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:5459461	(1970) Choleretic effects of cholecystokinin, gastrin II, and caerulei	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:5480623	(1970) Production and characterization of specific antibodies to ga	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:4191964	(1970) Gastrin, cholecystokinin, and secretin act on one receptor.	<u>2</u> of <u>3</u>	3.08	1.11	0.0099

	(1970)	Comparison of effects of gastrin, cholecystokinin-pancreoz	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
PMID:4559392	(1972)	Influence of secretin and cholecystokinin on canine gastric	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:5021062	(1972)	Effects of gastrin I, secretin and cholecystokinin-pancreozy	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:5077802	(1972)	Actions of cholecystokinin-pancreozymin, secretin and gast	2 of 3	3.08	1.11	0.0099
	. ,	The action of gastrin and cholecystokinin-related peptides o	2 of 2	3.25	1.11	0.0099
		Acetylcholine release from guinea-pig ileum by parasympat	2 of 2	3.25	1.11	0.0099
		The hormonal regulation of pyloric sphincter function.	2 of 3	3.08	1.11	0.0099
	. ,	., .				
PMID:4743491	. ,	The action of the C-terminal octapeptide of cholecystokinin	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
	, ,	Structure-activity relationship of some analogues of gastrin	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:4451817	` /	Evidence of cholecystokinin release by bombesin in the dog.	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:4854925	. ,	The kinetics of pancreatic amylase secretion and its relatio	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:4435583	(1974)	Radioimmunoassay of cholecystokinin-pancreozymin.	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
PMID:1098953	(1975)	The tropic action of gastro-intestinal hormones.	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
PMID:1126597	(1975)	Inhibition of gastric emptying is a physiological action of ch	2 of 2	3.25	1.11	0.0099
PMID:1180586	(1975)	Cholecystokinin metabolism in man and dogs.	2 of 2	3.25	1.11	0.0099
	. ,	The effect of penta-gastrin and cholecystokinin on radiologi	2 of 2	3.25	1.11	0.0099
		[Roentgen kymographic investigations of gastric peristalsis	2 of 2	3.25	1.11	0.0099
PMID:165733	, ,	Mechanism of cholecystokinin inhibition of lower esophage	2 of 2	3.25	1.11	0.0099
	. ,	, , , , , , , , , , , , , , , , , , , ,		3.08		
	, ,	Effect of extragastric and truncal vagotomy on pancreatic s	<u>2</u> of <u>3</u>		1.11	0.0099
PMID:1140468	` /	[Gastrin, cholecystokinin-pancreozymin, secretin and the int	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
MID:1201379	. ,	Parallel bioassay of bombesin and litorin, a bombesin-like p	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
		Interaction between octapeptide-cholecystokinin, gastrin, a	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
MID:1213650	(1975)	Jejunal factor stimulating insulin release in the isolated perf	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
MID:238296	(1975)	The intestinal phase of gastric secretion: a pharmacological	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
MID:1150877	(1975)	Action of cholecystokinin and cholinergic agents on calciu	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
MID:1126596	. ,	Radioimmunoassay for motilin.	2 of 7	2.71	1.06	0.0119
MID:1032244	\ /	The structure of gastrointestinal hormones.	2 of 2	3.25	1.11	0.0099
	` /	Gastrointestinal peptide hormone analogues.	2 of 2	3.25	1.11	0.0099
		Effect of cholecystokinin and 16,16-dimethyl prostaglandin	2 of 2	3.25	1.11	0.0099
MID:1245265	, ,			3.25		
	` /	The effect of cholecystokinin-pancreozymin on circulating g	<u>2</u> of <u>2</u>		1.11	0.0099
PMID:1261760	` /	Pancreatic, gallbladder, and gastric responses to intraduode	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:767195	. ,	Immunohistochemical identification of the cholecystokinin	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:944152	(1976)	Gastrins in tissue. Concentration and component pattern in	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:961910	(1976)	Effects of peptide hormone structure on H+ secretion by Ne	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:971753	(1976)	Effect of sulfated and non-sulfated gastrin and octapeptide	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:1019921	(1976)	Effect of bombesin on serum gastrin and cholecystokinin in	2 of 3	3.08	1.11	0.0099
		Metabolism of the gastrointestinal peptide hormones.	2 of 3	3.08	1.11	0.0099
PMID:1266957	, ,	Interaction of gastrin I, secretin, and cholecystokinin on gall	2 of 3	3.08	1.11	0.0099
PMID:203165	` /	Cellular action of gastrointestinal polypeptide hormones.	2 of 3	3.08	1.11	0.0099
	. ,	Proceedings: Localization of gastrin, secretin and cholecyst	2 of 3	3.08	1.11	0.0099
	, ,					
PMID:937533	` /	Gallbladder pressure-volume response to gastrointestinal h	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:1259480	. ,	Parasympathetic innervation and pancreatic secretion: the r	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
		Biological determination of gastrointestinal peptide hormon	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
PMID:950608	(1976)	Effect of bombesin and related peptides on the release and	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
PMID:173615	(1976)	Cyclic AMP in pancreatic acinar cells: effects of gastrointes	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
PMID:801695	(1976)	Isolation and evolution of the gastrointestinal hormones.	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
PMID:1278107	(1976)	Secretion cells in the gastrointestinal tract.	2 of 6	2.78	1.1	0.0100
PMID:793724	` /	Identification of gastrin-secreting cells and cholecystokinin	2 of 6	2.78	1.1	0.0100
PMID:960954	` /	[Gastrointestinal hormones].	2 of 6	2.78	1.1	0.0100
		Structure-function relationships of peptide fragments of ga	2 of 2	3.25	1.11	0.0099
	` /			3.25		
		Heptadecapeptide gastrin in the vagal nerve.	<u>2</u> of <u>2</u>		1.11	0.0099
	,	Evidence for a common evolutionary origin of gastrin and c	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
		Effects of cholecystokinin, gastrin, and related peptides on	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
		The effects of gastrin and gastrin analogues on pancreatic	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
		[The effect of caerulein on intraluminal pressures of the co	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
	(1977)	Characterization of antral gastrin cells with region-specific	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
MID:929115	(1977)	The role of local cholinergic pathways in the motor respons	<u>2</u> of <u>2</u>	3.25	1.11	0.0099
		[Physiology and physiopathology of gastrointestinal hormo	2 of 3	3.08	1.11	0.0099
MID:842664	` /	Bovine pancreatic peptide: action on gastric and pancreatic	2 of 3	3.08	1.11	0.0099
WIID.042004	. ,	Augmented gastric inhibitory polypeptide response to intrad	2 of 3	3.08	1.11	0.0099
	(1977)					
MID:898020					1.11	ก กกจจ
MID:898020 MID:908483	(1977)	Pancreatic duct cells in rats: secretory studies in response t	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
MID:898020 MID:908483 MID:32019	(1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for	<u>2</u> of <u>3</u> <u>2</u> of <u>5</u>	3.08 2.86	1.11	0.0099
MID:898020 MID:908483 MID:32019 MID:248003	(1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho	2 of 3 2 of 5 2 of 7	3.08 2.86 2.71	1.11 1.06	0.0099 0.0119
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761	(1977) (1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti	2 of 3 2 of 5 2 of 7 2 of 7	3.08 2.86 2.71 2.71	1.11 1.06 1.06	0.0099 0.0119 0.0119
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241	(1977) (1977) (1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8	3.08 2.86 2.71 2.71 2.65	1.11 1.06 1.06 1.02	0.0099 0.0119 0.0119 0.0142
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160	(1977) (1977) (1977) (1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9	3.08 2.86 2.71 2.71 2.65 2.6	1.11 1.06 1.06 1.02 0.98	0.0099 0.0119 0.0119 0.0142 0.0166
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160	(1977) (1977) (1977) (1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8	3.08 2.86 2.71 2.71 2.65 2.6 2.51	1.11 1.06 1.06 1.02	0.0099 0.0119 0.0119 0.0142
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699	(1977) (1977) (1977) (1977) (1977) (1977) (1977)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9	3.08 2.86 2.71 2.71 2.65 2.6	1.11 1.06 1.06 1.02 0.98	0.0099 0.0119 0.0119 0.0142 0.0166
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699 MID:23175	(1977) (1977) (1977) (1977) (1977) (1977) (1977) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones].	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11	3.08 2.86 2.71 2.71 2.65 2.6 2.51	1.11 1.06 1.06 1.02 0.98 0.91	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699 MID:23175 MID:23335	(1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699 MID:23175 MID:23335 MID:272670	(1977) (1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi Demonstration of biological activity of brain gastrin-like pep	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099 0.0099
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699 MID:23175 MID:23335 MID:272670 MID:365836	(1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978) (1978) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi Demonstration of biological activity of brain gastrin-like pep Distribution of gastrin and CCK cells in the rat gastrointestin	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2 2 of 2 2 of 2 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099 0.0099 0.0099
MID:898020 MID:908483 MID:32019 MID:248003 MID:908761 MID:562241 MID:338160 MID:856699 MID:23175 MID:23335 MID:272670 MID:365836 MID:365836 MID:688012	(1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978) (1978) (1978) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi Demonstration of biological activity of brain gastrin-like pep Distribution of gastrin and CCK cells in the rat gastrointestin Gastrin and cholecystokinin in human cerebrospinal fluid. I	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25 3.25 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099 0.0099 0.0099 0.0099
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PMID:898020 PMID:908483 PMID:32019 PMID:248003 PMID:562241 PMID:338160 PMID:856699 PMID:23335 PMID:23335 PMID:23335 PMID:365836 PMID:365836 PMID:365836 PMID:696807 PMID:725500	(1977) (1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978) (1978) (1978) (1978) (1978) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi Demonstration of biological activity of brain gastrin-like pep Distribution of gastrin and CCK cells in the rat gastrointestin Gastrin and cholecystokinin in human cerebrospinal fluid. I Mixed endocrine gastric tumors associated with hypergastri Interactions of cholecystokinin (CCK-PZ) and gastrin on mo	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25 3.25 3.25 3.25 3.25 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11 1.11 1.11 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099 0.0099 0.0099 0.0099 0.0099 0.0099
PMID:898020 PMID:908483 PMID:32019 PMID:248003 PMID:562241 PMID:338160 PMID:856699 PMID:23335 PMID:23335 PMID:23335 PMID:365836 PMID:365836 PMID:696807 PMID:696807 PMID:725500	(1977) (1977) (1977) (1977) (1977) (1977) (1977) (1978) (1978) (1978) (1978) (1978) (1978) (1978) (1978) (1978) (1978)	Pancreatic duct cells in rats: secretory studies in response t Localization of putative transmitters in the hippocampal for Hepatotrophic effects of pancreatic and gastrointestinal ho The effects of gastrin, gastric inhibitory polypeptide, secreti Estimation of cholecystokinin-pancreozymin (CCK) in huma Ultrastructural identification of a new cell type—the N-cell as [New views on gastrointestinal hormones]. A specific gastrin receptor site in the rat stomach. Effect of Ca2+, Mg2+, NaN3, cholinergic agents, and gastroi Demonstration of biological activity of brain gastrin-like pep Distribution of gastrin and CCK cells in the rat gastrointestin Gastrin and cholecystokinin in human cerebrospinal fluid. I Mixed endocrine gastric tumors associated with hypergastri	2 of 3 2 of 5 2 of 7 2 of 7 2 of 8 2 of 9 2 of 11 2 of 2	3.08 2.86 2.71 2.71 2.65 2.6 2.51 3.25 3.25 3.25 3.25 3.25 3.25 3.25	1.11 1.06 1.06 1.02 0.98 0.91 1.11 1.11 1.11 1.11 1.11	0.0099 0.0119 0.0119 0.0142 0.0166 0.0220 0.0099 0.0099 0.0099 0.0099

F IVIID.JUJZ/J	(1770) Olli astructurar anu cytochemicar studies on the cytodineren	<u> </u>	3.00	1.11	0.0055
PMID:618913	(1978) In vitro action of bombesin on amylase secretion, membran	<u>2</u> of <u>3</u>	3.08	1.11	0.0099
PMID:640556	(1978) [The significance of gastrointestinal hormones in gastroent	<u>2</u> of <u>4</u>	2.95	1.11	0.0099
PMID:218798	(1978) Effect of gastrointestinal hormones on isolated bovine para	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
PMID:400736	(1978) Intestinal nutrient influence on the enteroinsular axis.	<u>2</u> of <u>5</u>	2.86	1.11	0.0099
					(less)

	Local Network Cluster (STRING)				
cluster	description	count in network	<u>strength</u>	<u>signal</u>	false discovery rate
CL:24316	ADP signalling through P2Y purinoceptor 12, and Prostaglandin Er	<u>5</u> of <u>25</u>	2.55	4.12	1.21e-08
CL:23914	Cholecystokinin receptor, and Gastrin/cholecystokinin, conserved s	<u>4</u> of <u>5</u>	3.16	4.29	1.51e-08
CL:24323	G-protein alpha subunit, group I, and Adenylate cyclase-activating d	<u>3</u> of <u>5</u>	3.03	3.03	3.01e-06
CL:24354	G-protein alpha subunit, group Q, and Phospholipase C-beta, conse	<u>2</u> of <u>6</u>	2.78	1.51	0.0018
CL:23867	Peptide ligand-binding receptors, and Class B/2 (Secretin family re	<u>5</u> of <u>180</u>	1.7	2.1	9.95e-06

	KEGG Pathways				
<u>pathway</u>	<u>description</u>	count in network	<u>strength</u>	<u>signal</u>	false discovery rat
nsa04261	Adrenergic signaling in cardiomyocytes	<u>3</u> of <u>146</u>	1.57	1.39	0.00064
rsa05034	Alcoholism	<u>4</u> of <u>146</u>	1.69	2.03	1.56e-05
sa04925	Aldosterone synthesis and secretion	<u>3</u> of <u>94</u>	1.76	1.7	0.00021
rsa05146	Amoebiasis	3 of 101	1.73	1.65	0.00025
rsa04371	Apelin signaling pathway	<u>4</u> of <u>133</u>	1.73	2.11	1.19e-05
rsa04020	Calcium signaling pathway	<u>4</u> of <u>191</u>	1.57	1.77	4.07e-05
rsa04024	cAMP signaling pathway	<u>2</u> of <u>207</u>	1.24	0.62	0.0396
sa04022	cGMP-PKG signaling pathway	3 of 163	1.52	1.31	0.00084
rsa05142	Chagas disease	4 of 97	1.87	2.41	4.67e-06
nsa04062	Chemokine signaling pathway	5 of 186	1.68	2.34	1.33e-06
nsa04725	Cholinergic synapse	5 of 109	1.91	2.93	2.27e-07
nsa04713	Circadian entrainment	5 of 91	1.99	3.04	2.27e-07
sa05030	Cocaine addiction	2 of 49	1.86	1.26	0.0031
sa04927	Cortisol synthesis and secretion	3 of 65	1.92	1.96	8.54e-05
isa04934	Cushing syndrome	4 of 153	1.67	1.99	1.79e-05
sa04728	Dopaminergic synapse	5 of 126	1.85	2.82	2.58e-07
sa04961	Endocrine and other factor-regulated calcium reabsorption	2 of 51	1.85	1.25	0.0032
isa04915	Estrogen signaling pathway	3 of 133	1.61	1.45	0.00051
isa04727	GABAergic synapse	3 of 85	1.8	1.76	0.00017
isa04540	Gap junction	4 of 87	1.92	2.49	3.83e-06
sa04971	Gastric acid secretion	4 of 71	2.0	2.69	1.91e-06
sa04922	Glucagon signaling pathway	2 of 100	1.55	0.94	0.0103
sa04724	Glutamatergic synapse	5 of 112	1.9	2.91	2.27e-07
isa04724	GnRH secretion	2 of <u>63</u>	1.75	1.15	0.0046
rsa04912	GnRH signaling pathway	3 of 87	1.79	1.74	0.00018
sa04935	Growth hormone synthesis, secretion and action	4 of 117	1.79	2.23	8.05e-06
rsa04933	Human cytomegalovirus infection	6 of 217	1.69	2.58	2.27e-07
isa05105	Human immunodeficiency virus 1 infection	5 of 203	1.64	2.24	1.84e-06
rsa03170	Inflammatory mediator regulation of TRP channels	2 of 92	1.59	0.97	0.0090
15a04730 15a04911	Insulin secretion	<u>5</u> of <u>82</u>	2.04	3.09	2.27e-07
18a04911 18a05167	Kaposi sarcoma-associated herpesvirus infection	2 of 187	1.28	0.66	0.0333
	·	4 of 59	2.08	2.84	1.29e-06
nsa04730	Long-term depression				
1sa04916	Melanogenesis	3 of 95	1.75	1.69	0.00021
isa05032	Morphine addiction	4 of 88	1.91	2.48	3.83e-06
1sa04921	Oxytocin signaling pathway	3 of <u>147</u>	1.56	1.39	0.00064
nsa04972	Pancreatic secretion	<u>4</u> of <u>97</u>	1.87	2.41	4.67e-06
isa04928	Parathyroid hormone synthesis, secretion and action	<u>4</u> of <u>104</u>	1.84	2.35	5.40e-06
isa05012	Parkinson disease	<u>2</u> of <u>236</u>	1.18	0.57	0.0490
isa05200	Pathways in cancer	<u>6</u> of <u>515</u>	1.32	1.63	3.83e-06
isa04611	Platelet activation	<u>3</u> of <u>122</u>	1.64	1.51	0.00042
isa04015	Rap1 signaling pathway	<u>3</u> of <u>201</u>	1.43	1.17	0.0015
isa04014	Ras signaling pathway	<u>2</u> of <u>225</u>	1.2	0.59	0.0456
sa04923	Regulation of lipolysis in adipocytes	<u>2</u> of <u>54</u>	1.82	1.22	0.0035
sa04926	Relaxin signaling pathway	<u>4</u> of <u>126</u>	1.75	2.16	1.02e-05
sa04924	Renin secretion	<u>3</u> of <u>66</u>	1.91	1.95	8.58e-05
sa04723	Retrograde endocannabinoid signaling	<u>4</u> of <u>142</u>	1.7	2.05	1.47e-05
isa04970	Salivary secretion	<u>2</u> of <u>89</u>	1.6	0.99	0.0086
isa04726	Serotonergic synapse	<u>5</u> of <u>108</u>	1.92	2.94	2.27e-07
ısa04071	Sphingolipid signaling pathway	<u>2</u> of <u>116</u>	1.49	0.87	0.0135
sa04918	Thyroid hormone synthesis	<u>2</u> of <u>73</u>	1.69	1.08	0.0060
sa04270	Vascular smooth muscle contraction	3 of 132	1.61	1.45	0.00051

	Reactome Pathways				
pathway	<u>description</u>	count in network	strength	signal	false discovery rate
HSA-399997	Acetylcholine regulates insulin secretion	<u>2</u> of <u>10</u>	2.55	1.63	0.0010
HSA-1296041	Activation of G protein gated Potassium channels	<u>2</u> of <u>29</u>	2.09	1.17	0.0060
HSA-991365	Activation of GARAR recentors	3 of 43	2.1	1.97	0.00013

	,	<u> </u>			0.000.0
HSA-9660821	ADORA2B mediated anti-inflammatory cytokines production	<u>4</u> of <u>43</u>	2.22	2.91	1.51e-06
HSA-418592	ADP signalling through P2Y purinoceptor 1	<u>4</u> of <u>25</u>	2.46	3.39	3.01e-07
HSA-392170	ADP signalling through P2Y purinoceptor 12	<u>3</u> of <u>22</u>	2.39	2.4	2.70e-05
HSA-400042	Adrenaline,noradrenaline inhibits insulin secretion	<u>3</u> of <u>28</u>	2.28	2.24	4.87e-05
HSA-4086398	Ca2+ pathway	<u>2</u> of <u>60</u>	1.78	0.88	0.0191
HSA-6814122	Cooperation of PDCL (PhLP1) and TRiC/CCT in G-protein beta foldi	<u>4</u> of <u>38</u>	2.28	3.03	1.02e-06
HSA-9009391	Extra-nuclear estrogen signaling	<u>3</u> of <u>75</u>	1.86	1.58	0.00056
HSA-434316	Fatty Acids bound to GPR40 (FFAR1) regulate insulin secretion	<u>2</u> of <u>8</u>	2.65	1.71	0.00073
HSA-416482	G alpha (12/13) signalling events	<u>2</u> of <u>80</u>	1.65	0.75	0.0322
HSA-418594	G alpha (i) signalling events	<u>7</u> of <u>309</u>	1.61	2.62	2.60e-08
HSA-416476	G alpha (q) signalling events	<u>7</u> of <u>217</u>	1.76	3.17	4.04e-09
HSA-418597	G alpha (z) signalling events	<u>4</u> of <u>48</u>	2.17	2.84	1.88e-06
HSA-8964315	G beta:gamma signalling through BTK	<u>2</u> of <u>18</u>	2.3	1.38	0.0027
HSA-8964616	G beta:gamma signalling through CDC42	<u>2</u> of <u>20</u>	2.25	1.33	0.0032
HSA-392451	G beta:gamma signalling through PI3Kgamma	<u>2</u> of <u>25</u>	2.16	1.24	0.0046
HSA-418217	G beta:gamma signalling through PLC beta	<u>2</u> of <u>20</u>	2.25	1.33	0.0032
HSA-202040	G-protein activation	<u>4</u> of <u>24</u>	2.47	3.4	3.01e-07
HSA-112040	G-protein mediated events	<u>3</u> of <u>54</u>	2.0	1.81	0.00023
HSA-163359	Glucagon signaling in metabolic regulation	<u>3</u> of <u>33</u>	2.21	2.13	7.45e-05
HSA-381676	Glucagon-like Peptide-1 (GLP1) regulates insulin secretion	<u>3</u> of <u>42</u>	2.11	1.97	0.00013
HSA-420092	Glucagon-type ligand receptors	<u>3</u> of <u>33</u>	2.21	2.13	7.45e-05
HSA-388396	GPCR downstream signalling	<u>10</u> of <u>624</u>	1.46	2.67	2.70e-11
HSA-500792	GPCR ligand binding	<u>6</u> of <u>459</u>	1.37	1.65	8.85e-06
HSA-9634597	GPER1 signaling	<u>4</u> of <u>45</u>	2.2	2.88	1.67e-06
HSA-109582	Hemostasis	<u>6</u> of <u>607</u>	1.25	1.37	3.14e-05
HSA-997272	Inhibition of voltage gated Ca2+ channels via Gbeta/gamma subun	<u>2</u> of <u>29</u>	2.09	1.17	0.0060
HSA-111885	Opioid Signalling	<u>5</u> of <u>90</u>	2.0	3.0	3.01e-07
HSA-375276	Peptide ligand-binding receptors	<u>3</u> of <u>194</u>	1.44	0.97	0.0063
HSA-112043	PLC beta mediated events	<u>2</u> of <u>49</u>	1.86	0.96	0.0138
HSA-500657	Presynaptic function of Kainate receptors	<u>2</u> of <u>21</u>	2.23	1.32	0.0034
HSA-392851	Prostacyclin signalling through prostacyclin receptor	<u>3</u> of <u>19</u>	2.45	2.49	1.97e-05
HSA-422356	Regulation of insulin secretion	<u>6</u> of <u>78</u>	2.14	4.05	1.73e-09
HSA-392518	Signal amplification	<u>5</u> of <u>33</u>	2.43	4.24	4.24e-09
HSA-456926	Thrombin signalling through proteinase activated receptors (PARs)	<u>4</u> of <u>32</u>	2.35	3.19	5.83e-07
HSA-428930	Thromboxane signalling through TP receptor	<u>4</u> of <u>24</u>	2.47	3.4	3.01e-07
HSA-432040	Vasopressin regulates renal water homeostasis via Aquaporins	<u>3</u> of <u>42</u>	2.11	1.97	0.00013
					(less)

	WikiPathways				
pathway	description	count in network	strength	signal	false discovery rate
WP536	Calcium regulation in cardiac cells	<u>6</u> of <u>151</u>	1.85	2.98	8.10e-08
WP3679	Cell-type dependent selectivity of CCK2R signaling	<u>3</u> of <u>13</u>	2.62	2.66	1.13e-05
WP3929	Chemokine signaling pathway	<u>4</u> of <u>165</u>	1.64	1.68	0.00013
WP2636	Common pathways underlying drug addiction	<u>2</u> of <u>41</u>	1.94	1.03	0.0104
WP2355	Corticotropin-releasing hormone signaling pathway	<u>5</u> of <u>92</u>	1.99	2.99	2.90e-07
WP2197	Endothelin pathways	<u>2</u> of <u>32</u>	2.05	1.11	0.0077
WP712	Estrogen signaling pathway	<u>2</u> of <u>23</u>	2.19	1.24	0.0047
WP35	G protein signaling pathways	<u>5</u> of <u>91</u>	1.99	3.0	2.90e-07
WP2596	Gastric acid production	<u>2</u> of <u>11</u>	2.51	1.53	0.0015
WP4941	GPR143 in melanocytes and retinal pigment epithelium cells	<u>2</u> of <u>29</u>	2.09	1.14	0.0068
WP4540	Hippo signaling regulation pathways	<u>3</u> of <u>98</u>	1.74	1.35	0.0015
WP289	Myometrial relaxation and contraction pathways	<u>4</u> of <u>156</u>	1.66	1.72	0.00011
WP1602	Nicotine effect on dopaminergic neurons	<u>3</u> of <u>21</u>	2.41	2.36	3.39e-05
WP4760	PKC-gamma calcium signaling pathway in ataxia	<u>2</u> of <u>22</u>	2.21	1.24	0.0047
WP5122	Prostaglandin and leukotriene metabolism in senescence	<u>3</u> of <u>31</u>	2.24	2.11	8.55e-05
WP5321	Prostaglandin and leukotriene metabolism in senescence	<u>3</u> of <u>34</u>	2.2	2.07	9.71e-05
WP4900	Purinergic signaling	<u>2</u> of <u>33</u>	2.04	1.11	0.0077
WP722	Serotonin HTR1 group and FOS pathway	<u>2</u> of <u>37</u>	1.99	1.07	0.0090
WP2032	Thyroid stimulating hormone (TSH) signaling pathway	<u>5</u> of <u>66</u>	2.13	3.35	9.32e-08
					(less)

	Disease-gene Associations (DISEASES)				
disease	description	count in network	<u>strength</u>	<u>signal</u>	false discovery rate
DOID:0060158	Acquired metabolic disease	<u>3</u> of <u>162</u>	1.52	0.7	0.0371
DOID:0060090	Central nervous system benign neoplasm	<u>2</u> of <u>34</u>	2.02	0.71	0.0477
DOID:14566	Disease of cellular proliferation	<u>6</u> of 1101	0.99	0.71	0.0057
DOID:3119	Gastrointestinal system cancer	<u>3</u> of <u>161</u>	1.52	0.7	0.0371
DOID:5900	Meningeal melanocytoma	<u>2</u> of <u>2</u>	3.25	1.44	0.0026
DOID:1752	Ocular melanoma	<u>2</u> of <u>4</u>	2.95	1.38	0.0032
DOID:0060085	Organ system benign neoplasm	<u>5</u> of <u>237</u>	1.58	1.42	0.00054
DOID:0050686	Organ system cancer	<u>5</u> of <u>757</u>	1.07	0.68	0.0149
DOID:1793	Pancreatic cancer	<u>2</u> of <u>29</u>	2.09	0.74	0.0428
DOID:10534	Stomach cancer	<u>2</u> of <u>31</u>	2.06	0.74	0.0428
DOID:0111563	Sturge-Weber syndrome	<u>2</u> of <u>3</u>	3.08	1.43	0.0026
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<u>рогр.0002</u> очен плетапопта <u>дого</u> 2.00 1.00 0.0002 (less ...)

	Tissue Expression (TISSUES)				
tissue	description	count in network	strength	signal	false discovery rate
BTO:0000346	Digestive juice	<u>2</u> of <u>29</u>	2.09	0.72	0.0452
BTO:0000616	I-cell	<u>2</u> of <u>2</u>	3.25	1.33	0.0041
BTO:0004980	Uveal melanoma cell	<u>2</u> of <u>2</u>	3.25	1.33	0.0041
BTO:0003472	Vagus nerve	<u>2</u> of <u>7</u>	2.71	1.15	0.0082

	Subcellular Localization (COMPARTMENTS)				
compartment	description	count in network	strength	signal	false discovery rate
GOCC:0005834	Heterotrimeric G-protein complex	<u>6</u> of <u>27</u>	2.6	5.55	1.44e-11
GOCC:0005886	Plasma membrane	<u>8</u> of 3535	0.61	0.39	0.0222

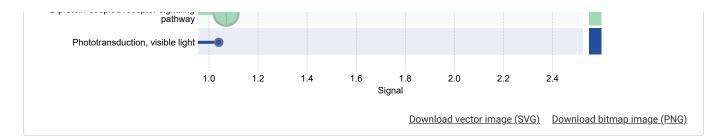
	Annotated Keywords (UniProt)				
keyword	description	count in network	strength	signal	false discovery rate
KW-0013	ADP-ribosylation	<u>4</u> of <u>101</u>	1.85	1.92	8.19e-05
KW-0027	Amidation	<u>2</u> of <u>46</u>	1.89	0.8	0.0302
KW-0342	GTP-binding	<u>4</u> of <u>342</u>	1.32	0.92	0.0060
KW-0449	Lipoprotein	<u>5</u> of <u>818</u>	1.04	0.74	0.0063
KW-0460	Magnesium	<u>4</u> of <u>578</u>	1.09	0.63	0.0236
KW-0564	Palmitate	<u>4</u> of <u>339</u>	1.32	0.92	0.0060
KW-0765	Sulfation	<u>2</u> of <u>57</u>	1.8	0.73	0.0400
KW-0807	Transducer	<u>7</u> of <u>837</u>	1.18	1.24	4.91e-05
					(less)

	Protein Domains and Features (InterPro)				
domain	<u>description</u>	count in network	<u>strength</u>	<u>signal</u>	false discovery rate
IPR011025	G protein alpha subunit, helical insertion	<u>4</u> of <u>16</u>	2.65	3.07	1.82e-06
IPR000654	G-protein alpha subunit, group Q	<u>2</u> of <u>4</u>	2.95	1.23	0.0061
IPR001651	Gastrin/cholecystokinin peptide hormone	<u>2</u> of <u>2</u>	3.25	1.33	0.0041
IPR013152	Gastrin/cholecystokinin, conserved site	<u>2</u> of <u>2</u>	3.25	1.33	0.0041
IPR001019	Guanine nucleotide binding protein (G-protein), alpha subunit	<u>4</u> of <u>16</u>	2.65	3.07	1.82e-06

	Protein Domains (SMART)				
domain	description	count in network	<u>strength</u>	signal	false discovery rate
SM00275	G protein alpha subunit	<u>4</u> of <u>16</u>	2.65	3.56	2.08e-07
SM00029	Gastrin / cholecystokinin / caerulein family	2 of 2	3.25	1.75	0.00070

Functional enrichment visualization





Enrichment display settings

Merge rows by term similarity:	Don't merge	UPDATE
Maximum FDR shown:	FDR <= 0.05	
Minimum signal shown:	signal >= 0.01	
Minimum strength shown:	strength >= 0.01	
Minimum count in network:	2	
Row Visibility:	Display only selected rows	

Statistical background

For the above enrichment analysis,				
the following statistical background	Whole Genome	~	ADD BACKGROUND	UPDATE
is assumed:				

Save / Export

Biological Process (Gene Ontology)	download	19 GO-terms significantly enriched; file-format: tab-delimited
Molecular Function (Gene Ontology)	download	6 GO-terms significantly enriched; file-format: tab-delimited
Cellular Component (Gene Ontology)	download	5 GO-terms significantly enriched; file-format: tab-delimited
Reference Publications (PubMed)	download	5870 publications significantly enriched; file-format: tab-delimited
Local Network Cluster (STRING)	download	5 clusters significantly enriched; file-format: tab-delimited
KEGG Pathways	download	51 pathways significantly enriched; file-format: tab-delimited
Reactome Pathways	download	39 pathways significantly enriched; file-format: tab-delimited
WikiPathways	download	19 pathways significantly enriched; file-format: tab-delimited
Disease-gene Associations (DISEASES)	download	12 diseases significantly enriched; file-format: tab-delimited
Tissue Expression (TISSUES)	download	4 tissues significantly enriched; file-format: tab-delimited
Subcellular Localization (COMPARTMENTS)	download	2 compartments significantly enriched; file-format: tab-delimited
Annotated Keywords (UniProt)	download	8 keywords significantly enriched; file-format: tab-delimited
Protein Domains and Features (InterPro)	download	5 domains significantly enriched; file-format: tab-delimited
Protein Domains (SMART)	download	2 domains significantly enriched; file-format: tab-delimited
All enriched terms (without PubMed)	download	177 enriched terms in 13 categories; file-format: tab-delimited
Selected terms only	download	no enriched terms selected (click on any term above to select)

There were **no** significant pathway enrichments observed in the following categories: Human Phenotype (Monarch), Fission Yeast Phenotype Ontology (Monarch), Protein Domains (Pfam).

Server load: low (28%) [HD] Permalink

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SIB - Swiss Institute of Bioinformatics	Content	Scores	Versions	Funding
	References	Use scenarios	APIs	Datasources
CPR - Novo Nordisk Foundation Center Protein Research	People	FAQs	Licensing	Partners

