Evaluation of LitInspector Results

The quality of the LitInspector results was assessed with a published dataset of 181 PubMed sentences which were already used for the evaluation of the tools IHOP and PolySearch. The published dataset can be found at the IHOP webserver:

http://www.ihop-net.org/UniPub/iHOP/info/gene_index/manual/1.html

Sentence Number	Number of Genes	True Positives	False Positives	False Negatives	Color Coded LitInspector Output Sentences
1	2	1		1	XRCC3 apparently interacted with the N-acetyltransferase type 2 (NAT-2) genotype.
2	1	1			The data suggest that tissue-specific regulation of aaNAT1 may be associated with different enzymatic functions and do not exclude the possibility of additional aaNAT genes.
3	3	3			Using specific antibodies to ABCA2 and various organelle marker proteins, ABCA2 was found to colocalize with the lysosomal/endosomal marker LAMP1, forming discrete, punctate intracellular vesicles.
4	2	2			We report here that gene-specific ABL1 promoter methylation is associated mainly with the P210 form of BCR-ABL and not the P190 form.
5	2	2			The remaining four genes present in the telomeric region included two known genes, MyD88 and ACAA, and two novel genes.
6	1	1			No significant difference in tHcy levels and in the prevalence of thermolabile MTHFR was found between patients with non-CAD ischemic stroke and control subjects and between patients with sCAD and non-CAD ischemic stroke.
7	4	4			BNaC1 is similar to two other BNaC/ASIC family members, BNaC2 (ASIC1) and ASIC4, at its extreme C terminus, and we show that PICK1 also interacts with BNaC2.
8	2	1		1	Acrosin was found to be rapidly inhibited by protein C inhibitor with the association rate constant (kass) for the formation of the complex being (2.41 +/- 0.03) x 10(5) M-1 s-1.
9	3	2		1	A panel of markers of 3 STRs; ACPP, INT 2, and CYP 19 (on chromosomes 3, 11, and 15, respectively) were used.
10	3	3			By PCR of somatic cell hybrid DNAs, ACTBP9 and two beta-actin-related pseudogenes (ACTBP7 and ACTBP8) were mapped to human chromosomes 18, 15, and 6, respectively.
11	3	3			Here we describe the identification and characterization of a new gene, WRB, that maps to 21q22.3 between ACTL5 and HMG 14 and appears to be widely expressed in adult and fetal tissues.
12	0		2		CUL-1 was found to interact with SKR-1, -2, -3, -7, -8, and -10 in the yeast two-hybrid system.
13	2	1		1	The finding of undetectable ACY-1 expression in SCLC supports the hypothesis that inactivation of all alleles of specific chromosome 3p genes occurs in a SCLC in a fashion analogous to Rb gene inactivation in retinoblastoma, and suggests that the structural gene for ACY-1 may be closely linked to a putative SCLC tumor suppressor gene.
14	2	1		1	Madm co-immunoprecipitated with Mlf1 and co-localized in the cytoplasm.

15	5	5			We also confirmed previously reported mapping results of the corresponding human loci ADCY2, ADCY3, ADCY5, and ADCY6 to human chromosomes and, in addition, determined the chromosomal location of ADCY4 to human Chr 14q11.2.
16	1	1			In contrast, treatment with human (h) CG at 2 days after PMSG treatment stimulated ovarian PACAPR messenger RNA within 3-6 h in granulosa cells of preovulatory follicles.
17	2	1		1	As assayed by gel shift DNA binding studies, the RARE region (-328 to -272 bp) of ADH3 bound the human retinoic acid receptor beta (RAR beta) and was competed for by DNA containing a RARE present in the gene encoding RAR beta.
18	2	2			Conversely, the addition of ET-1 induced an increase in the number of endothelial cells that secreted adrenomedullin and CNP.
19	2	2			First, ADRA1B is on 5q but is several million bases, rather than a few hundred thousand bases, from ADRB2.
20	2	2			Adra2r (alpha 2-C10) and Adrb1r (beta 1) receptors mapped to the distal region of mouse chromosome 19.
21	1	1			Adenylosuccinate lyase (ASL) deficiency is a defect in purine de novo synthesis pathway.
22	2	2			However, the distribution of CPZ and AEBP1 differ in pituitary and thyroid.
23	4	3		1	Two genes, B cell translocation gene1 (BTG1) and B cell-specific OCT binding factor-1 (OBF-1) were induced > or =1.9-fold in both XLA1 and XLA2 analyzed by Atlas filter arrays andAffymetrix chips, respectively.
24	1	1			Mapping the soluble angiotensin binding protein (ABP1) locus to porcine chromosome 16.
25	2	2			In peripheral blood lymphocytes, adenosine deaminase was inhibited by 85% to 98% and S-adenosylhomocysteine hydrolase by 51% to 88%.
26	3	3			Monocyte-conditioned medium, recombinant human interleukin-6 (rhIL6) and interleukin-1 beta (rhIL1 beta) all down-regulated the synthesis of AHSG.
27	2	1		1	Earlier family studies have shown that the locus for AK1 is closely linked to the ABO blood group locus and to the locus of the nail-patella (Np) syndrome.
28	2	2			The current data confirm past observations that the ALAD gene modifies the toxicokinetics of lead and also provides new evidence that the VDR gene does so as well.
29	2	2			F8C was also tightly linked to ALD with a maximal LOD score of 7.8 without recombination.
30	2	2			In addition, we found that Pax6 mutants are devoid of Raldh-3 expression.
31	1			1	Cholesterol regulates ABCD2 expression: implications for the therapy of X-linked adrenoleukodystrophy.
32	2	2			ALOXE3 and ALOX12B are arranged in a head-to-tail fashion separated by 8.5 kb.
33	2	2			ALOX15B is located in the same orientation 25 kb downstream of ALOX12B, and is composed of 14 exons and 13 introns spanning a total of 9.7 kb of genomic sequence.
34	0				However, familial forms of ALS have been described--autosomal dominant forms (ALS1, ALS3), clinically indistinguishable from the sporadic form, and autosomal recessive forms with early onset and slower progression of symptoms (ALS2).
35	2	2			The strict liver-specific expression of the AMBP gene is controlled by a potent enhancer made of six clustered boxes numbered 1-6 that have been reported to be proven or potential binding sites for the hepatocyte-enriched nuclear factors HNF-1, -4, -3, -1, -3, -4, respectively.
36	2	2			The mapping of the AMDM locus to human chromosome 9 indicates that AMDM is genetically distinct from the two other mapped acromesomelic dysplasias, Hunter-Thompson type and Grebe type, which are caused by mutations in CDMP1 on human

					chromosome 20.
37	1	1			Ectopic endometrial tissues also produced A2M.
38	2	2			The two genes represent the corresponding canine orthologs of human aminomethyltransferase (AMT) and the human T-cell leukemia translocation associated (TCTA) gene.
39	2			2	Amy2/SP2/1 was used to discriminate between Amy1 and Amy2.
40	2			2	HER2 regulatory control of angiopoietin-2 in breast cancer.
41	1	1			Alpha-1-antichymotrypsin inhibits the NADPH oxidase-enzyme complex in phorbol ester-stimulated neutrophil membranes.
42	3	3			Furthermore, c-Myb and B-Myb enhanced expression of CD13 upon PMA treatment.
43	2	2			The amino-terminal region of annexin A2 extends along the concave side of the protein and contains the binding site for the S100A10 (p11) subunit.
44	5	5			The Anx11 gene localized to mouse chromosome 14 in close linkage with the Rarb, Plau, and Wnt5a genes near the centromere and 1.8 cM distal from the Anx7 gene.
45	2	2			Recombinant human midkine (rh-midkine) was expressed under the control of the AOX1 gene promoter in Pichiapastoris.
46	2	2			The protein XB51 inhibited the association of X11L with amyloid precursor protein through a non-competitive mechanism and abolished the suppression of beta-amyloid production by X11L.
47	1	1			Coimmunoprecipitation experiments revealed that the AAV Rep78 is physically bound to p53 in vivo.
48	2	2			ABC7 protein was shown to be colocalized with ferrochelatase in mitochondria, as assessed by immunostaining.
49	1			1	Treatment with PGA1 and even more with PGJ2 remarkably enhanced the synthesis of HSP70 in virus-exposed U937 cells, thus resulting in persistently high levels of HSP70 protein in the cells.
50	3	3			ArgBP2 associates with and is a substrate of Arg and v-Abl, and is phosphorylated on tyrosine in v-Abl-transformed cells.
51	3	3			Significant differences were observed for acetyl CoA-carboxylase 2 and uncoupling protein 2 expression (ACC2: -16.8+/-12.4% vs +51.5+/-32.3% for the intervention and control group respectively; p<0.05) (UCP2: -26.9+/-10.3% vs +10.5+/-6.2% for the intervention and control group respectively; p<0.05).
52	?				It is suggested that API1 is produced from API3 by an endoprotease.
53	2	2			Overlapping gene structure of human VLCAD and DLG4.
54	1	1			However, monoclonal aCLs (EY1C8 and EY2C9) inhibited the effect of beta2-GPI on fibrinolytic activity; that is, monoclonal aCLs inhibited fibrinolytic activity by elevating PAI-1 activity.
55	2	1		1	We describe a method for measuring apolipoprotein A-I (ApoA-I) associated and unassociated with apolipoprotein A-II (ApoA-II) in plasma.
56	1	1			Assignment of the aquaporin-8 water channel gene (AQP8) to human chromosome 16p12.
57	2	2			Serum haptoglobin appearance during neonatal period is associated with acid phosphatase (ACP1) phenotype.
58	2	2			Collagen types I, III, ASMA, and vimentin were detected in the TEHV-leaflets.
59	3	3			By PCR of somatic cell hybrid DNAs, ACTBP9 and two beta-actin-related pseudogenes (ACTBP7 and ACTBP8) were mapped to human chromosomes 18, 15, and 6, respectively.
60	3	3			The gamma-actin-related pseudogenes were mapped by FISH to chromosomes 3q23 (ACTGP1), 20p13 (ACTGP3), and 6p21.1 (ACTGP9).

61	2	2			Cell lines typically co-express ACTN4 and ACTN1, a second non-muscle alpha-actinin gene.
62	2	2			Here we show that beta:beta activin binds to the activin type II receptor kinase (ActRII) which induces activin binding to the type I receptor kinase SKR2 to form ActRII.beta:beta.SKR2 complexes in which an activin beta chain occupies each receptor subunit.
63	1			1	Extensively purified human (HeLa) TFIIA interacts with the Ad-2 MLP similarly.
64	1	1			We have examined two polymorphisms in the coding sequence of the Notch4 gene at positions +1297 and +3063 in a case-control study of 116 AA patients and 142 ethnically matched, healthy control subjects.
65	2	2			Deletion of the ETO C terminus abolishes CoR binding and HDAC recruitment and severely impairs the ability of AML1-ETO to inhibit differentiation of hematopoietic precursors.
66	2	2			Low editing efficiency of GluR2 mRNA is associated with a low relative abundance of ADAR2 mRNA in white matter of normal human brain.
67	1	1			ABC50 is related to GCN20 and eEF3, two yeast ABC proteins that are not membrane-associated transporters and are instead implicated in mRNA translation and/or its control.
68	1	1	1		Ki-ras oncogenes were detected in spontaneous and chemically induced lung tumors obtained from the C3A and AC3 mice.
69	2			2	However, the ADH2 genotype did not seem to influence drinking frequency or amounts of alcohol intake in each ALDH2 genotype.
70	2	1	1	1	Mammalian alcohol dehydrogenase of higher classes: analyses of human ADH5 and rat ADH6.
71	1	1			Mapping of a human A2a adenosine receptor (ADORA2) to chromosome 22.
72	2	1		1	These findings suggest that it is H antigen expression that mediates the ABO effect on plasma vWF concentration.
73	2	2			Detailed physical analysis of a 1.5-megabase YAC contig containing the MXI1 and ADRA2A genes.
74	1	1			The cDNA for mouse long-chain acyl-CoA dehydrogenase (Acadl, gene symbol; LCAD, enzyme) was cloned and characterized.
75	2	2			Three SNPs (803T>C of AGT, 677CT of MTHFR, 190T>C of ADRB3) showed weak differences in allelic frequency.
76	4	4			Additional experiments showed that all-trans-retinoic acid causes large induction of the transcription factor STAT1, while IFN-gamma causes activation of STAT1 such that it binds to the GAS/Sp1 site in the ACAT-1 P1 promoter.
77	1	1			Several peptide fragments are produced by proteolytic cleavage of the opioid peptide precursor proenkephalin A, and among these are a number of enkephalin fragments, in particular bovine adrenal medulla peptide 22 (BAM22).
78	1	1			The results described in the present study suggest that mAEG (CRISP1) is secreted in the monkey epididymis, regulated by androgens and present on epididymal spermatozoa.
79	2	2			This raises the possibility that AGC1 and mel-CSPG may be the same gene.
80	2	2			Interaction between BR-1 and ATP citrate lyase was blocked by radicicol but not by herbimycin A that interacts with Hsp90.
81	1	1			Prior treatment of neutrophils with ACP2 also reduced by 45% the amount of diacylglycerol they produced when stimulated by fMLP.
82	0				Based on the molecular weights of the proteins detected, the strains were divided into two groups with Ami (groups Ami1 [75% of the strains] and Ami2 [21%]) and into four groups with ActA (groups ActA1 [52% of the strains], ActA2 [18%], ActA3 [30%], and

					ActA4 [one strain isolated from food]).
83	1	1	1		We found a 4 bp ACTC deletion between nucleotides 1464 and 1467 in the second exon of the normal DAX-1 sequence.
84	2			2	The human AGRP decapeptide Yc[CRFFNAFC]Y has been previously reported as binding to the human MC3 and MC4 receptors and antagonizing the MC4 receptor.
85					duplicated sentence 61.
86	2	2			ACTN2 is the human homolog of a previously characterized chicken gene while ACTN3 represents a novel gene product.
87	2	2			Here, we show that CFTR activates aquaporin 3 expressed endogenously and exogenously in oocytes of Xenopus laevis.
88	1	1			In view of its ancient pedigree and a potential involvement in cellular architecture, we propose that the ARCN1 protein be named archain.
89	2			2	The introduction of hARF4 to the cells maintained the balance between cytosolic and membrane-associated Sec7p pools.
90	2	2			Thus, NOS2 and Arg1 might act separately or synergistically in vivo to control specific types of T-cell responses, and selective antagonists of these enzymes might prove beneficial in fighting diseases in which T-cell responses are inappropriately suppressed.
91	3	2		1	Of the type II receptors, SNX6 was found to interact strongly with ActRIIB and more moderately with wild type and kinase-defective mutants of TbetaRII.
92	2	2			These results suggest that RhoE may act to inhibit signalling downstream of RhoA, altering some RhoA-regulated responses, such as stress fiber formation, but not affecting others, such as peripheral actin bundle formation.
93	2	2			These results suggest that ARHGAP6 has two independent functions: one as a GAP with specificity for RhoA and the other as a cytoskeletal protein that promotes actin remodeling.
94	3	3			Specific interactions between ARL1 and two binding proteins, SCOCO and Golgin-245, are defined and characterized in more detail.
95	2	2			The AhR is a ligand-activated partner of the ARNT protein.
96	1	1	1		The grade of cathepsin B staining was significantly increased in AHDs and CAs, compared with ADs (P < .0001).
97	2	2			AIF-1 colocalizes with Rac1, and AIF-1-transduced VSMCs show a constitutive and enhanced activation of Rac1, providing a mechanism for the increased migration.
98	2	1		1	The AK3 locus is however, probably syntenic with the AK1 locus, on chromosome 9.
99	1	1			Four new mutations in the erythroid-specific 5-aminolevulinate synthase (ALAS2) gene causing X-linked sideroblastic anemia: increased pyridoxine responsiveness after removal of iron overload by phlebotomy and coinheritance of hereditary hemochromatosis.
100	2	2			Comparative analysis of the RED1 and RED2 A-to-I RNA editing genes from mammals, pufferfish and zebrafish.
101	5	5			We also confirmed previously reported mapping results of the corresponding human loci ADCY2, ADCY3, ADCY5, and ADCY6 to human chromosomes and, in addition, determined the chromosomal location of ADCY4 to human Chr 14q11.2.
102	2	1		1	NUP98 is fused to adducin 3 in a patient with T-cell acute lymphoblastic leukemia and myeloid markers, with a new translocation t(10;11)(q25;p15).
103	2	1		1	Identified regulatory loci are known to affect the expression of Adh-1 and Adh-3, which are closely linked on chromosome 3.
104	3			3	The reaction was made specific for arylsulfatase A by inhibiting arylsulfatase C activity with low pH and arylsulfatase B activity with pyrophosphate.
105	2	2			Expression of the ARSF cDNA in COS cells resulted in a heat-labile arylsulfatase activity

					that is not inhibited by warfarin, supporting our hypothesis that only ARSE is specifically inhibited by warfarin and is most likely involved in warfarin embryopathy.
106	1	1			RyR2 mutations suggested to cause defective Ca2+ channel function have recently been identified in catecholaminergic polymorphic ventricular tachycardia (CPVT) and arrhythmogenic right ventricular dysplasia (ARVD) affected individuals.
107	1	1	1		A polymorphic PstI site is assigned to the fourth intron of the ADH4 gene.
108	1	1	1		Six families were excluded from all four known BBS loci, indicating that there is at least a fifth BBS locus (BBS5).
109	2	2			Adenosine A2B receptor signalling is altered by stimulation of bradykinin or interleukin receptors in astroglioma cells.
110	2	2			Subtype-specific probes to the murine homologs of the human ADRA2B and ADRA2C genes were prepared by PCR amplification and used to map these two genes to mouse chromosomes 2 and 5, respectively.
111	3	3			Large variations were found in mRNA expression of LH1 and LH2 but not LH3
112	1			1	We have isolated the human homolog of the bacterial arsA (hARSA-I), a member of the ATPase superfamily with no transmembrane domain.
113	2	2			The results of these experiments place ASSP1 sequences on human chromosome 6, IFNB3 on human chromosome 8, and DBI on human chromosome 6.
114	1	1			G protein-coupled receptor kinase 2 (GRK2) is a key modulator of G protein-coupled receptors (GPCR).
115	2	2			The gene for the CLAPB1 large subunit was mapped to 17q11.2-q12 by PCR amplification of an AP2 beta fragment from a panel of rodent-human hybrid DNAs.
116	3	3			Chromosomal locations of three human nuclear genes (RPSM12, TUFM, and AFG3L1) specifying putative components of the mitochondrial gene expression apparatus.
117	1	1			This region of the POMC gene is involved in the control of constitutive POMC gene expression since mutation of the PO-B DNA-binding site severely reduces transcription from the POMC promoter both in vivo and in vitro (Riegel, A.
118					Duplicated sentence 69.
119	2	2			The structure of two human aldehyde dehydrogenase genes, ALDH7 and ALDH8, have been determined.
120	3	3			Using the same method, four of the genes (GHR, PRLR, ALDOB, and MUSK) were assigned to the Japanese quail Z chromosome.
121	2	2			ATF4 is a mediator of the nutrient-sensing response pathway that activates the human asparagine synthetase gene.
122	2	2			More RERE protein is recruited into nuclear aggregates of the DRPLA protein with extended polyglutamine than into those of pure polyglutamine.
123	2	2			Epidermal growth factor enhances transcription of human arachidonate 12-lipoxygenase in A431 cells.
124	2	2			Overall, the results do not support linkage of bipolar disorder to the Na(+),K(+)-ATPase alpha subunit gene (ATP1A3) and beta subunit gene (ATP1B3) in these old-order Amish families and they show that these Na(+),K(+)-ATPase subunit genes are not major effect genes (>or=fourfold increased genetic risk of disease) for BPAD in the old-order Amish pedigrees.
125					Duplicated sentence 124.
126	1	1			TaqI polymorphisms at the annexin VIII locus (ANX8).
127	3	2		1	Both c-Rel and RelA induced jagged1 gene expression, whereas a mutant defective for transactivation did not.
128	2	2			Modulation of SERCA2 activity: regulated splicing and interaction with phospholamban.
129	2	2			Instead, double immunofluorescence demonstrated that TNSALP (N153D) partially co-

					localized with a cis-Golgi marker (GM-130) at the steady-state.
130	6	5		1	heir location and expression patterns make TMOD2 and TMOD3 candidate genes for amyotrophic lateral sclerosis 5 (ALS5) and dyslexia-1 (DYX1) and TMOD4 a candidate gene for limb girdle muscular dystrophy 1B (LGMD1B).
131	1	1			The survival motor neuron (SMN) gene was lacking in 6/12 patients with arthrogryposis multiplex congenita (AMC) associated with spinal muscular atrophy (SMA).
132	2	2			We have found that PMCA1 and PMCA4 genes were expressed in 8-, 12- and 20-week fetal heart and in adult heart.
133	2	2			These data suggest that ATPe triggers IL-1 beta via the purinergic P2Z receptor recently shown to be expressed by human macrophages and identified as a new member of the P2X family (P2X7), and provide pharmacologic tools for the modulation of IL-1 beta release in vitro and, possibly, in vivo.
134	2			2	The peroxisomal targeting sequence type 1 receptor, Pex5p, and the peroxisomal import efficiency of alanine:glyoxylate aminotransferase.
135	3	3			In vitro translated AHNAK fragment could be cleaved by granzyme B and caspase-3.
136	2	2			In preclinical studies, arginine vasopressin (AVP) has been shown to increase a range of social behaviors, including affiliation and attachment, via the V(1a) receptor (AVPR1A) in the brain.
137	1	1			Cytochrome P450 2D6 (CYP2D6) has been documented as the major target antigen of liver kidney microsomal autoantibodies type-1 (anti-LKM-1) in both autoimmune hepatitis type-2 (AIH-2) and hepatitis C (HCV).
138	2	2			Gas6 bound to HUVECs; soluble Axl inhibited this binding.
139	1	1			0.1 100 ng of defensins and 1.0 100 ng/ml CAP37 were able to stimulate in vitro T-cell chemotaxis.
140	3	3			Finally, MLK3-mediated JNK activation is inhibited by AKT1.
141	3	3			Based upon this structural comparison, we establish that DBP is a member of the ALB and AFP gene family.
142	1	1			The adenosine monophosphate deaminase locus (AMPD1) was selected for study.
143	3	2		1	The long haplotype spans about 300 kb and contains six additional genes arranged in two repeats, each one consisting of two salivary amylase genes (AMY1A and AMY1B) and a pseudogene lacking the first three exons (AMYP1).
144	2			2	The purpose of this study was to ascertain whether any of the Prader Willi Angelman Chromosome Region (PWCR and ANCR, respectively) loci were duplicated in these patients.
145	3	2	1	1	In these IL-2R beta c-expressing cells, BAG-1 mRNA was dramatically induced by IL-2.
146	2	2			Immunohistochemical analysis of P53 and CDN1 was performed.
147	2	2			We found 44% of families linked to 11q13 (BBS1) and 17% linked to 16q21 (BBS2).
148	2	2			Localization and function(s) of ocular ALDH1 and ALDH3 isozymes.
149	3	3			K(m) and V(max) values for 10 coenzyme analogs never previously studied with any aldehyde dehydrogenase and NADP(+) were compared with those for NAD(+) for three human aldehyde dehydrogenases (EC 1.2.1.3); the cytoplasmic E1 (the product of the aldh1 gene), the mitochondrial E2 (the product of the aldh2 gene) and the cytoplasmic E3 (the product of the aldh9 gene) isozymes.
150	2	2			Western blotting of extracts from brain, heart, kidney, liver, lung, prostate, skeletal muscle, small intestine, spleen and testis showed that AKR7A2 is present in all of the organs examined, and AKR1B1 is similarly widely distributed in human tissues.
151	2	2			Promoter polymorphism in the 5-lipoxygenase (ALOX5) and 5-lipoxygenase-activating protein (ALOX5AP) genes and asthma susceptibility in a Caucasian population.
152	3	3	1		A multilocus linkage analysis of RFLP data from a single WS1 family with 11 affected

					individuals indicates that the WS1 mutation in this family is linked to the following four marker loci located on the long arm of chromosome 2: ALPP (alkaline phosphatase, placental), FN1 (fibronectin 1), D2S3 (a unique-copy DNA segment), and COL6A3 (collagen VI, alpha 3).
153	1	1			Combined restriction landmark genomic scanning and virtual genome scans identify a novel human homeobox gene, ALX3, that is hypermethylated in neuroblastoma.
154	2	1		1	NF1 binding correlated with the disappearance of ANT2 transcripts in quiescent cells.
155	2	2			Genomic locations of ANX11 and ANX13 and the evolutionary genetics of human annexins.
156	2	2			Given that the FHIT gene at 3p14.2, which encodes a diadenosine 5',5"'-P1,P3-triphosphate (AP3A) hydrolase, is a candidate tumor suppressor, APAH1 should also be considered a potential tumor suppressor.
157	2	1		1	Thus, it is likely that the PI domains present in the C-terminal moiety of the hFE65L protein bind the NPXY motif located in the cytoplasmic domain of beta PP and APLP2.
158	2	2			AMD1 was localized to chromosome region 6q21-->q22 and AMD2 to band Xq28.
159	2	1		1	BCGF enhanced transferrin receptor expression by phorbol ester-activated B cells.
160	2	2			GzmA cleaves Ape1 after Lys31 and destroys its known oxidative repair functions.
161	2	2			The AMFR expression appears to be associated with VEGF expression.
162	3	3			Mutations in the human BCKD genes E1alpha (BCKDHA), E1beta (BCKDHB) and E2 (DBT) are known to result in MSUD, referred to as type Ia, Ib and II mutations respectively.
163	2	2			We found that the PI domain of Dab1 interacts with the amyloid precursor-like protein 1 (APLP1).
164	1	1			We have defined here amino acids of amphiphysin 1 crucial for binding to AP-2 and clathrin.
165	2			2	Three types of variants were observed for Amy1, one type for Amy2.
166	1	1			The functional differences between Ang and Angrp, together with evidence presented herein that Angrp is regulated differently than Ang, suggest that the roles of the two proteins in vivo may be quite distinct.
167	2	2			Spectrin binds both Ank1 and Ank3 avidly, as expected.
168	2	2			Interestingly, a homologue of ANT3, ANT2, maps to Xq and is subject to X-inactivation.
169	2	2			The Polycomb-group protein ENX-2 interacts with ZAP-70.
170	2	2			Fractional deacylation of LPS by incubation with acyloxyacyl hydrolase isolated from human leukocytes produced a reduction in the capacity of LPS to induce TNF release in whole blood.
171	2	2			Conditioned media containing secreted apoF demonstrated CETP inhibitor activity, whereas cells transfected with vector alone did not.
172	2	1		1	Rates were higher in rapid versus slow acetylators when catalysed by NAT2 but not when catalysed by NAT1.
173	2	2			The activation of naive B cells by CD40L induced transient expression of Bcl-xL
174	2	2			LRBA, a human gene with a ubiquitous expression pattern mapping to 4q32, encodes a protein closely related to BCL8.
175	2	2			The purpose of this investigation was to elucidate the clinicopathologic characteristics of BRCA1- and BRCA2-associated hereditary breast carcinomas (HBCs) in Japanese women.
176	2	1		1	These results may suggest that hABCA1 regulates actin organization through the possible interaction with Cdc42Hs.
177	1	1			These data reveal that missense ABCR mutations may be associated with RP.

178	2	2			ABR probably corresponds to the brain-enriched 100-kDa GAP for Rac and Cdc42Hs previously detected.
179	3	3			Nuclear receptor response element-1 (NRRE-1) from the human medium-chain acyl coenzyme A dehydrogenase (MCAD) gene promoter was shown to contain three hexamer elements (site 1 through 3) that are known to interact with a number of nuclear receptors including chicken ovalbumin upstream promoter transcription factor (COUP-TF) and estrogen-related receptor alpha (ERRalpha).
180					Duplicated sentence 7.
181	1	1			Recombinant IRP-1 represses aconitase synthesis with similar efficiency as ferritin IRE-controlled translation.
Sum	**350**	**303**	**10**	**47**	

Formulas:

Precision = true positives / (true positives + false positives)
Recall = true positives / number of genes
F-measure = 2 * precision * recall / (precision + recall)

Results for LitInspector:

Precision = 303 / (303 + 10) = 96.8 %
Recall = 303 / 350 = 86.6 %
F-measure = 2 * 96.8 * 86.6 / (96.8 + 86.6) = 91.4 %

http://www.litinspector.org/