

MEDIE - Semantic retrieval engine for MEDLINE - Mozilla Firefox

Findings and highlights the evidence even when presented with complex sentences

Results 1-50 for **p53 activate** (17.16 seconds (10.95% finished))

1. PMID: 16697438 [view](#)
However, the expression of the **cyclin kinase inhibitor p21** (**waf1/cip1**) which gets **activated by p53** was affected in the HBx transformed **cell** line AML12-HBx9, but not in HepG2.
2. PMID: 16917063 [view](#)
Here we show that **p53** transcriptionally **activates the alpha (I) collagen prolyl-4-hydroxylase [alpha (I) H1 gene]**, resulting in the extracellular release of antigenic fragments of collagen type 4 and 1B
3. PMID: 16778209 [view](#)
In the present study, we showed that **SEF_H1**, a guanine exchange factor-H1 for RhoA, is transcriptionally **activated by the induction of mutant p53 proteins**, thereby accelerating tumor **cell** proliferation.
4. PMID: 16531411 [view](#)
The **p53 tumor suppressor protein** exerts most of its anti-tumorigenic activity by transcriptionally **activating several pro-apoptotic genes**.
5. PMID: 16601686 [view](#)
Ttp63 participates in **cell cycle arrest** following DNA damage by allowing **p53** to **activate p21CIP1 (p21) expression**.
6. PMID: 16571800 [view](#)
In normal **cells**, **p53** levels are kept low due to an autoregulatory feedback loop where **p53 activates the transcription of mdm2** and **mdm2** binds and ubiquitinates **degrading p53** for professional degradation.
7. PMID: 164...
Accordingly, ... was found in the promoter of the **SPX2 gene** that can be **activated and bound by p53** but not **p53**.

Complements other document-based services

MEDIE is an intelligent text search engine for retrieving sentences about biomedical events from MEDLINE. Using a simple subject-verb-object interface the system can retrieve evidence to help answer questions like "What does p53 activate?" or "Is there a relationship between JNK and TNF-alpha?"

Unlike traditional keyword-based search engines such as Google or PubMed, the user can issue a query based on deep syntax, which neutralizes various syntactic expressions used in the literature and significantly improves the quality of search results.

The entire collection of MEDLINE articles are pre-indexed with a rich syntactic/semantic analysis and real-time responses are achieved by a specially designed indexing scheme.

MEDIE is available at <http://www-tsujii.is.s.u-tokyo.ac.jp/medie/>

scription of **mdm2** and **mdm2** binds and

Mdm2 (Mus musculus)
[EntrezGene](#)
[MGJ](#)
[PIR](#)
[SWISS-PROT](#)
[TrEMBL](#)

ed and bound

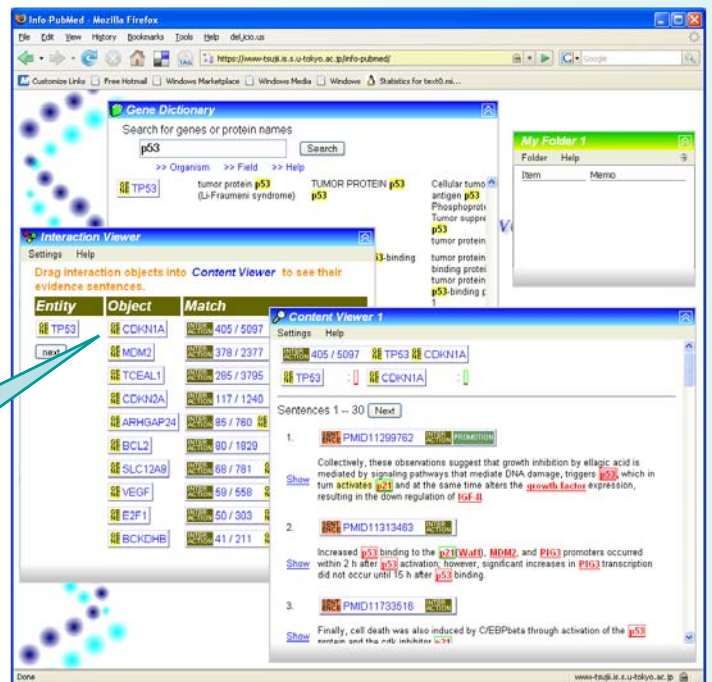
Provides links to external bioinformatics resources

Info-PubMed is an efficient PubMed search tool tailored to the collection of information about interactions between genes/proteins in MEDLINE articles.

The user-friendly 'drag and drop' interface enables users to browse and organize information about protein-protein interactions in a straightforward and intuitive manner.

The quality of the interaction information is backed by a large-scale gene/protein name dictionary, deep syntactic parsing technology and machine learning-based text analysis components.

Info-PubMed is available at <https://www-tsujii.is.s.u-tokyo.ac.jp/info-pubmed/>



Info-PubMed - Mozilla Firefox

Search for genes or protein names: **p53**

Entity | Object | Match

TP53	CDKN1A	405 / 5097
	MDM2	378 / 2377
	TCEAL1	285 / 3795
	CDKN2A	117 / 1240
	ARHGAP24	95 / 780
	BCL2	80 / 1829
	SLC12A8	08 / 781
	VEGF	59 / 558
	E2F1	50 / 303
	BCKDHB	41 / 211

Content Viewer 1

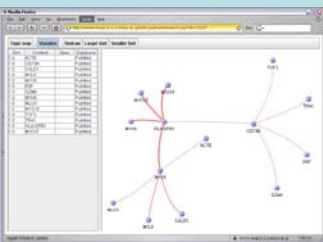
Sentences 1 - 30

1. **PMID11299762** [PubMed](#) [PubMed](#)
Collectively, these observations suggest that growth inhibition by ellagic acid is mediated by signaling pathways that mediate DNA damage, triggers **p53**, which in turn activates **p21** and at the same time alters the **growth factor** expression, resulting in the down regulation of **tp53**.
2. **PMID11313483** [PubMed](#) [PubMed](#)
Increased **p53** binding to the **p21** (**Waf1**), **MDM2**, and **P16** promoters occurred within 2 h after **p53** activation, however, significant increases in **P16** transcription did not occur until 15 h after **p53** binding.
3. **PMID11733616** [PubMed](#) [PubMed](#)
Finally, cell death was also induced by C/EBPbeta through activation of the **p53** network and the **p53** inhibitor **p21**.

Find direct interactions not just co-occurrences

Save, reuse and export your findings

Network Visualization



Large-scale dictionary

Symbol	CDKN1A
Name	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
Organism	Homo sapiens
Link	CAP20 / CDK-INTERACTING PROTEIN 1 / CIP1 / CYCLIN-DEPENDENT KINASE INHIBITOR 1A / G1 cyclin-dependent kinase inhibitor p21 / MDA6 / MDA6 / PIC1 / SDI1 / WAF1 / WAF1p21 / WAF1-2L /
Synonym	

