COSMIC - Catalogue Of Somatic Mutations In Cancer

RRID:SCR_002260
Type: Tool

Proper Citation

COSMIC - Catalogue Of Somatic Mutations In Cancer (RRID:SCR_002260)

Resource Information

URL: http://cancer.sanger.ac.uk/cancergenome/projects/cosmic/

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Description: Database to store and display somatic mutation information and related details and contains information relating to human cancers. The mutation data and associated information is extracted from the primary literature. In order to provide a consistent view of the data a histology and tissue ontology has been created and all mutations are mapped to a single version of each gene. The data can be queried by tissue, histology or gene and displayed as a graph, as a table or exported in various formats.

Some key features of COSMIC are:
* Contains information on publications, samples and mutations. Includes samples which have been found to be negative for mutations during screening therefore enabling frequency data to be calculated for mutations in different genes in different cancer types.
* Samples entered include benign neoplasms and other benign proliferations, in situ and invasive tumours, recurrences, metastases and cancer cell lines.

Abbreviations: COSMIC

Synonyms: Catalogue Of Somatic Mutations In Cancer

Resource Type: data or information resource, database

Defining Citation: PMID:20952405

Keywords: cancer, mutation, somatic mutation, tumor, cancer genome, genome, gene, dna, tissue, histology, bio.tools, FASEB list
Related Condition: Cancer

Funding Agency: Wellcome Trust

Availability: Free

Resource Name: COSMIC - Catalogue Of Somatic Mutations In Cancer

Resource ID: SCR_002260

Alternate IDs: nif-0000-02690, OMICS_00082, biotools:cosmic

Alternate URLs: http://www.sanger.ac.uk/perl/CGP/cosmic, https://bio.tools/cosmic

Ratings and Alerts

No rating or validation information has been found for COSMIC - Catalogue Of Somatic Mutations In Cancer.

No alerts have been found for COSMIC - Catalogue Of Somatic Mutations In Cancer.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 3119 mentions in open access literature.

Listed below are recent publications. The full list is available at RRID.


Liu M, et al. (2023) mSigHdp: hierarchical Dirichlet process mixture modeling for mutational
signature discovery. NAR genomics and bioinformatics, 5(1), lqad005.


Tsai XC, et al. (2023) Poor prognostic implications of myelodysplasia-related mutations in both older and younger patients with de novo AML. Blood cancer journal, 13(1), 4.


Huang J, et al. (2023) ChIPBase v3.0: the encyclopedia of transcriptional regulations of non-coding RNAs and protein-coding genes. Nucleic acids research, 51(D1), D46.


Engevik KA, et al. (2023) Bioinformatics reveal elevated levels of Myosin Vb in uterine corpus endometrial carcinoma patients which correlates to increased cell metabolism and poor prognosis. PloS one, 18(1), e0280428.


Zhao W, et al. (2023) Rare mutation-dominant compound EGFR-positive NSCLC is associated with enriched kinase domain-resided variants of uncertain significance and poor clinical outcomes. BMC medicine, 21(1), 73.

Lin M, et al. (2023) Evolutionary route of nasopharyngeal carcinoma metastasis and its