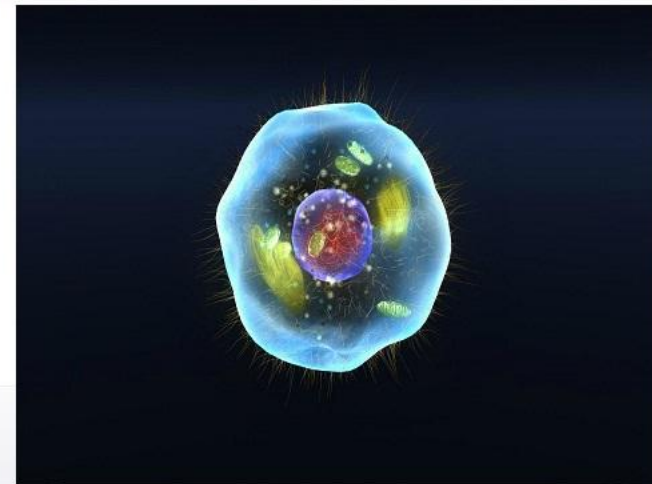


HELP

Home Page

Welcome to TCGDB

The Thyroid Cancer and Disorder Gene Database is a manually curated catalog of experimentally validated genes that are thought to be involved in the different stages and types of thyroid carcinogenesis. TCGDB contains information about genes and miRNA which can be used as a potential biomarkers for thyroid cancer and disorders. The data in TCGDB is extracted from the published research literature and stored as a collection of facts.



Click on Database to Browse page of Database



Database Search



FAQ
TCGDB

Detail



Statistics
TCGDB

Detail



Submit Data
TCGDB

Detail



Help
TCGDB

Detail

Browse Gene & miRNA

The image shows a screenshot of the TCGDB (Thyroid Cancer and Disorder Gene Database) website. The page has a dark header with the site name in gold and a navigation menu. The main content area is white and features a 'Browse' section with a paragraph of text. Below this, there are two columns: 'Gene' and 'miRNA', each with a 'Search' button. To the right, there are sections for 'Links' and 'Database Links'. Two green callout boxes with white text and arrows point to the 'Search' buttons in the 'Gene' and 'miRNA' sections, providing instructions on how to search for gene information.

THYROID CANCER AND DISORDER GENE DATABASE

TCGDB Home Browse Search Other Databases Blast Contact

Browse

Thyroid cancer and disorder are one of the leading endocrine disorders which affects approximately 4.2 crore people of India. In spite of the large population affected from this disease, still at present there is no database that catalogues genes involved in thyroid cancer and disorder. As a result, it has become canonical to develop a specific database that would help in understanding the genes that regulate the proliferation of thyroid cancer and diseases. Each entry contains information regarding the gene and protein sequences, its gene symbol, gene id, accession number, protein name, chromosomal location, location in cell, pathway and comments. In addition we provide rich cross reference to other web resources like Uniprot, HPRD, HGNC, Ensemble and OMIM augmenting TCGDB-specific information with external data. TCGDB also provides relevant literature references of genes included in the database.

Gene

To browse information of gene involved in thyroid cancer and disorders, click on search button

Search

miRNA

To browse information of miRNA involved in thyroid cancer and disorders, click on search button

Search

Links

01. Frequently Asked Questions
02. Database Statistics
03. Submit Data
04. Need Any Help

Database Links

01. National Centre for Biotechnology Information
02. The European Bioinformatics Institute
03. DNA Data Bank of Japan
04. Cancer Databases

Other Links

National Cancer Institute

Every 70,000 adolescents and young adults (ages 15-39) are diagnosed with cancer each year in the United States. Learn the cancers that are most common among AYAs and about clinical trials and research aimed at addressing their needs.

To search information about gene click on "Gene"

To search information about gene click on "Gene"

Alphabetical & Cancer Type Browsing

THYROID CANCER AND DISORDER GENE DATABASE

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BROWSE

Browse Gene by Alphabetical Order

a b c d e f g h i j k l m
n o p q r s t u v w x y z

Complete List

Browse Gene by Cancer Type

- Papillary Thyroid Cancer [PTC] (63 genes)
- Medullary Thyroid Cancer [MTC] (21 genes)
- Anaplastic Thyroid Cancer [ATC] (17 genes)
- Follicular Thyroid Cancer [FTC] (13 genes)

Complete list of genes

Search gene alphabetically

Search Gene by cancer type

Result of Cancer Type Browsing

THYROID CANCER AND DISORDER GENE DATABASE

TCGDB

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Gene_Symbol	Cancer Type
GADD45GIP1	FTC
GDA	FTC
HRAS	FTC
HRAS1	FTC
MINPP1	FTC
MIPP	FTC
PLINP1	FTC
PRG6	FTC
PRO1917	FTC
RITA	FTC
SLC25A16	FTC
UNQ900	FTC
ZNF331	FTC

Sorting by
type of
cancer

Gene
Symbol

Complete Information about gene involved in particular type of cancer

THYROID CANCER AND DISORDER GENE DATABASE

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Gene_Symbol	ABCA3
Gene_ID	21
Accession_Numbers	U78735
Cancer_Type_or_Thyroid_Disorder	MTC
Protein_Name	ATP-binding cassette sub-family A member 3 (ABC-C transporter) (ATP-binding cassette transporter 3) (ATP-binding cassette 3)
Length(aa)	1704
Chromosome	16
Chromosomal_Location	16p13.3
Method(3D)	_
Location	Membrane; Multi-pass membrane protein.
Comments	Highly expressed in lung, followed by brain, pancreas, skeletal muscle and heart. Weakly expressed in placenta, kidney and liver. Also expressed in me
Nucleotide	NM_001089.2
Protein	NP_001080.2
Description	ABC3
Gene_Family_Description	ATP binding cassette transporters / subfamily A
Gene_Family_Tag	ABCA
HPRD_ID	3369
OMIM_ID	601615
Uniprot_ID	Q6P5P9, Q4LE27, Q99758

All the information of genes with linking with other public databases

miRNA Browse Page Options

THYROID CANCER AND DISORDER GENE DATABASE

TCGDB

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BROWSE

miRNAs Present in Body Fluids

Select.. ▾

Complete List

Browse Gene by Mechanism

Up-Regulated

Down-Regulated

Get it

miRNA involved in other cancer / disorders

The screenshot shows the 'BROWSE' section of the TCGDB website. It features three main options: 'miRNAs Present in Body Fluids', 'Browse Gene by Mechanism', and 'miRNA involved in other cancer / disorders'. Each option is accompanied by a green callout box with an arrow pointing to it. The 'miRNAs Present in Body Fluids' option includes a dropdown menu labeled 'Select..' and a 'Complete List' link. The 'Browse Gene by Mechanism' option includes checkboxes for 'Up-Regulated' and 'Down-Regulated', and a 'Get it' button. The 'miRNA involved in other cancer / disorders' option is a simple text link.

Select type of body fluid and it will give all miRNA which are present in selected body fluid

Complete list of miRNA

Search miRNA on basis of mechanism

Search miRNA which are present in other diseases (for comparative analysis)

Result of Mechanism Based Browsing

THYROID CANCER AND DISORDER GENE DATABASE

TCGDB

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Gene_Symbol	Mechanism
hsa-mir-106a	upregulation
hsa-mir-145	upregulation
hsa-mir-146a	upregulation
hsa-mir-146b	upregulation
hsa-mir-151a	upregulation
hsa-mir-155	upregulation
hsa-mir-17	upregulation
hsa-mir-181a-1	upregulation
hsa-mir-181a-2	upregulation
hsa-mir-181b-1	upregulation
hsa-mir-181c	upregulation
hsa-mir-183	upregulation
hsa-mir-187	upregulation
hsa-mir-188	upregulation
hsa-mir-197	upregulation
hsa-mir-19a	upregulation
hsa-mir-203a	upregulation
hsa-mir-204	upregulation
hsa-mir-205	upregulation



Browse miRNA by upregulation

List of miRNA involved in other cancers and diseases

Cancer or disorder type

Research paper for reference

TCGDB

THYROID CANCER

Home

Browse

Search

Other Databases

Contact

MIRNA	CANCER OR DISORDER TYPE	MECHANISM	EXPERIMENT	RESEARCH PAPER FOR REFERENCE
hsa-let-7c	non-alcoholic fatty liver disease (NAFLD)	down-regulated	microarray	19775284
hsa-let-7d	acute promyelocytic leukemia (APL)	up-regulated	Northern blot, qRT-PCR etc	MicroRNA gene expression during retinoic acid-induced differentiation of human acute promyelocytic leukemia.
hsa-let-7d	lung cancer	down-regulated	Northern blot, qRT-PCR etc	The let-7 microRNA represses cell proliferation pathways in human cells.
hsa-let-7d	ovarian cancer (OC)	down-regulated	Northern blot, qRT-PCR etc	Let-7 prevents early cancer progression by suppressing expression of the embryonic gene HMGA2.
hsa-let-7d	breast cancer	down-regulated	microarray	MicroRNA gene expression deregulation in human breast cancer.
hsa-let-7d	epithelial ovarian cancer (EOC)	down-regulated	microarray	MicroRNA signatures in human ovarian cancer.
hsa-let-7d	epithelial ovarian cancer (EOC)	down-regulated	microarray	Genomic and epigenetic alterations deregulate microRNA expression in human epithelial ovarian cancer.
hsa-let-7d	hepatocellular carcinoma (HCC)	down-regulated	microarray	Cyclin G1 is a target of miR-122a, a microRNA frequently down-regulated in human hepatocellular carcinoma.
hsa-let-7d	malignant melanoma	down-regulated	Northern blot, qRT-PCR etc	MicroRNA let-7b targets important cell cycle molecules in malignant melanoma cells and interferes with anchorage-independent growth.
hsa-let-7d	Oral Squamous Cell Carcinoma (OSCC)	down-regulated	microarray	Exploration of tumor-suppressive microRNAs silenced by DNA hypermethylation in oral cancer.
hsa-let-7d	pancreatic cancer	up-regulated	Northern blot, qRT-PCR etc	Expression profiling identifies microRNA signature in pancreatic cancer.

miRNA involved in other cancer or diseases

Complete Information of Selected miRNA

THYROID CANCER AND DISORDER GENE DATABASE

TCGDB

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[Browse](#)

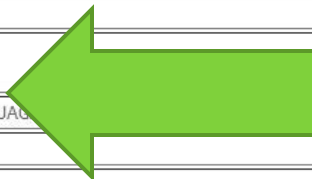
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mirna	hsa-let-7c
mechanism	downregulation
location	21q21.1
chromosome	21
other names	LET7C, MIRNLET7C, hsa-let-7c,?let-7c
gene id	406885
miRBase Accession No	MI0000064
Sequence	GCAUCCGGGUUGAGGUAGUAGGUUGUAUGGUUUAG
Mature1_Acc	MIMAT0000064
Mature1_ID	hsa-let-7c
Mature1_Seq	UGAGGUAGUAGGUUGUAUGGUU
Mature2_Acc	_
Mature2_ID	_
Mature2_Seq	_
miRTarBase ID	MIRT004491
Target Gene	BCL2L1
Target Gene (Entrez ID)	598
Experiments	Luciferase reporter assay; qRT-PCR; Western blot
pubmed id	18188765 19370508 21323591



All miRNA information
which is selected by user

Search Page

Gene Search

Gene Symbol:

Gene ID:

Accession No:

Chromosome:

miRNA Search

miRNA Symbol:

Gene ID:

miRbase ID:

Chromosome:

User can search according to their need

FAQ related to TCGDB

FAQ (Frequently Asked Questions)

1. What is TCGDB?

Ans 1. TCGDB (Thyroid Cancer and Disorder Gene Database) is a comprehensive collection of the genes contributing to the etiology and pathogenesis of thyroid cancer and disorders.

2. Why TCGDB was created?

Ans 2. Carcinoma of the thyroid is the most common endocrine disorders which aff... ed from this cancer still at present there is no database that catalogues genes involved in thyroid

- 1) Catalog gene-related facts of the thyroid diseases c... ed in the literature dat...
- 2) To deliver value added information;
- 3) To serve researchers and clinicians a system to brow... through and extract the b... cancer.

3. What is unique about TCGDB?

- Ans 3.** a) TCGDB, to the best of our knowledge is the first collection of genes associ...
- b) Using TCGDB a user can extract information regarding the aberrant biological process a gene is involved that leads to thyroid carcinogenesis.

General question about database

Contact Page

THYROID CANCER AND DISORDER GENE DATABASE

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Contact Information

Send us a message...

Name:

Email:

Subject:

Message:

Address Details

Ankush Bansal
Department of Biotechnology and Bioinformatics
Jaypee University of Information Technology
Waknaghat, Solan
Himachal Pradesh (INDIA)

Phone: +91-8091119750
Email: bansal.ankush13@gmail.com

Dr. Jayashree Ramana
Senior Lecturer
Department of Biotechnology and Bioinformatics
Jaypee University of Information Technology
Waknaghat, Solan
Himachal Pradesh (INDIA)

Email: jayashree.ramana@juit.ac.in

Connect to admin for any error and improvement suggestions in database