CoReCG version 1

Help File

The objective of this page is to provide the instructions for searching CoReCG database. The CoReCG home page and search page provides various search options which includes:

- Keyword search
  CoReCG database can be search by using basic keyword like Entrez Gene ID (for example use: 9 as Gene ID), HGNC Gene Symbol (e.g. NAT1) and chromosome number (e.g. 1) (Fig1).

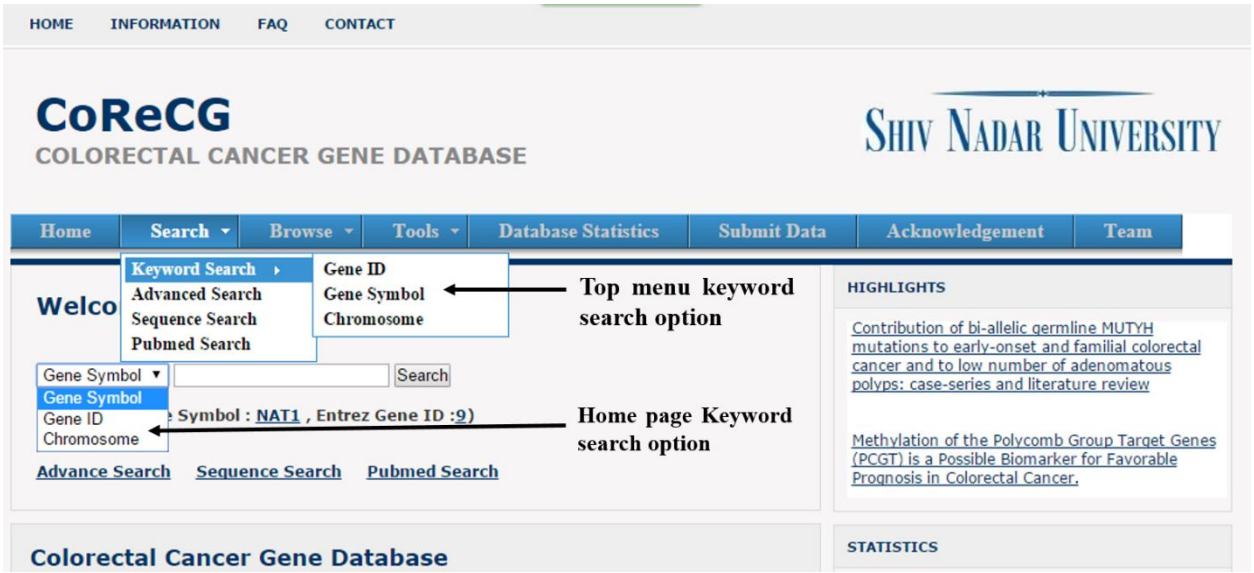


Fig 1: In Keyword search user can search CoReCG using any of the 3 keyword (Gene ID, Gene Symbol, Chromosome) by selecting the desired keyword from home page option.

User may use the top menu and select the required keyword page option (Fig 2).

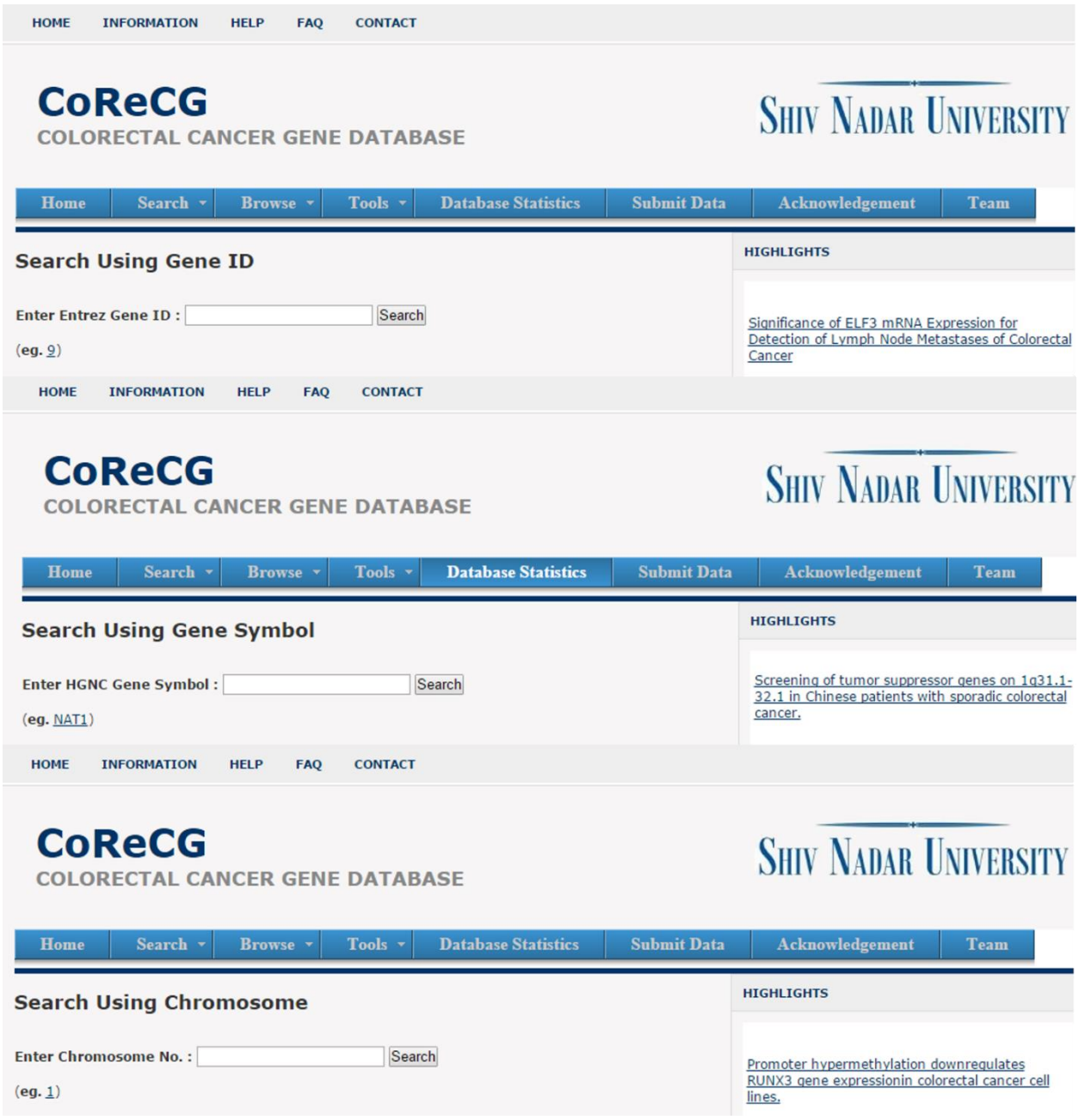


Fig 2: Figure showing the page options for Entrez Gene ID, HGNC Gene Symbol and Chromosome.

Search output using Entrez Gene ID or HGNC Gene Symbol provides the search results if the gene information is present in the database (Fig 3).

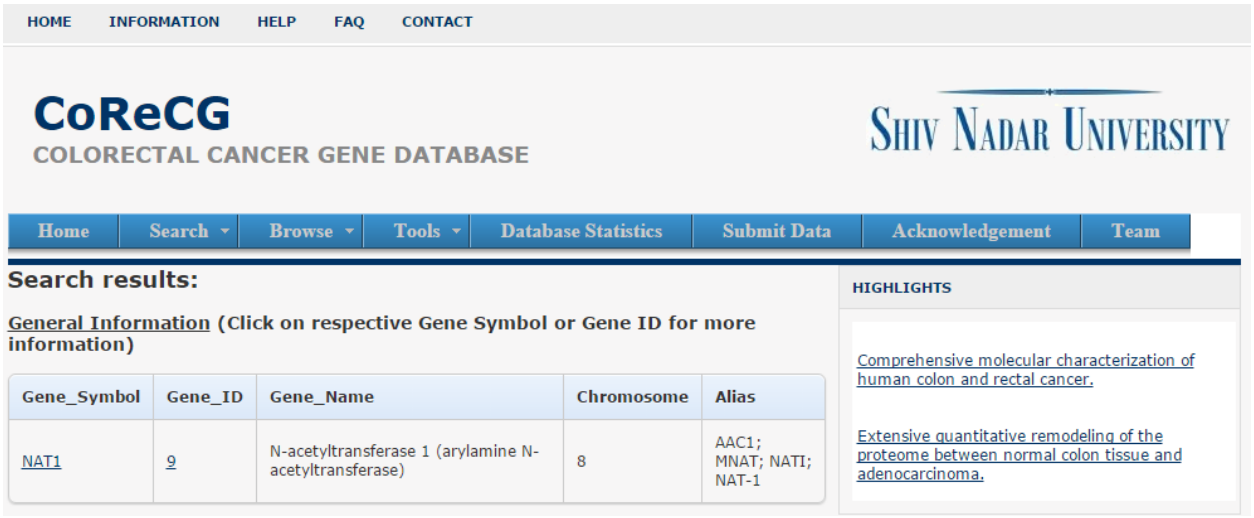


Fig 3: The search results contains the basic information which includes the Gene Symbol, Entrez Gene ID, Gene Name, Chromosome and Alias. For detailed information click on the Entrez Gene ID or Gene Symbol

For searching with Chromosome, one need to select chromosome page option and enter the chromosome number (Fig 4).

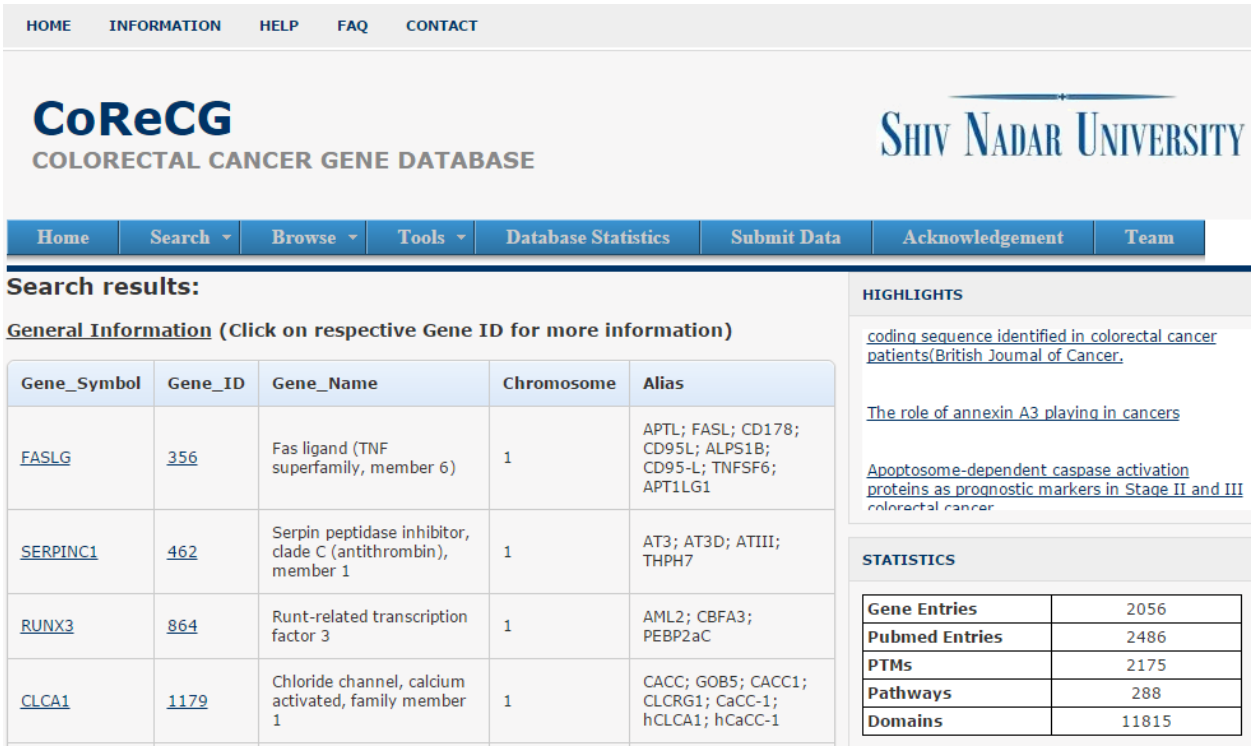


Fig 4: If CoReCG is searched using Chromosome keyword it will display all the genes present in the searched Chromosome number with general information.

For further information click on the Entrez Gene ID or Gene Symbol (Fig 5).

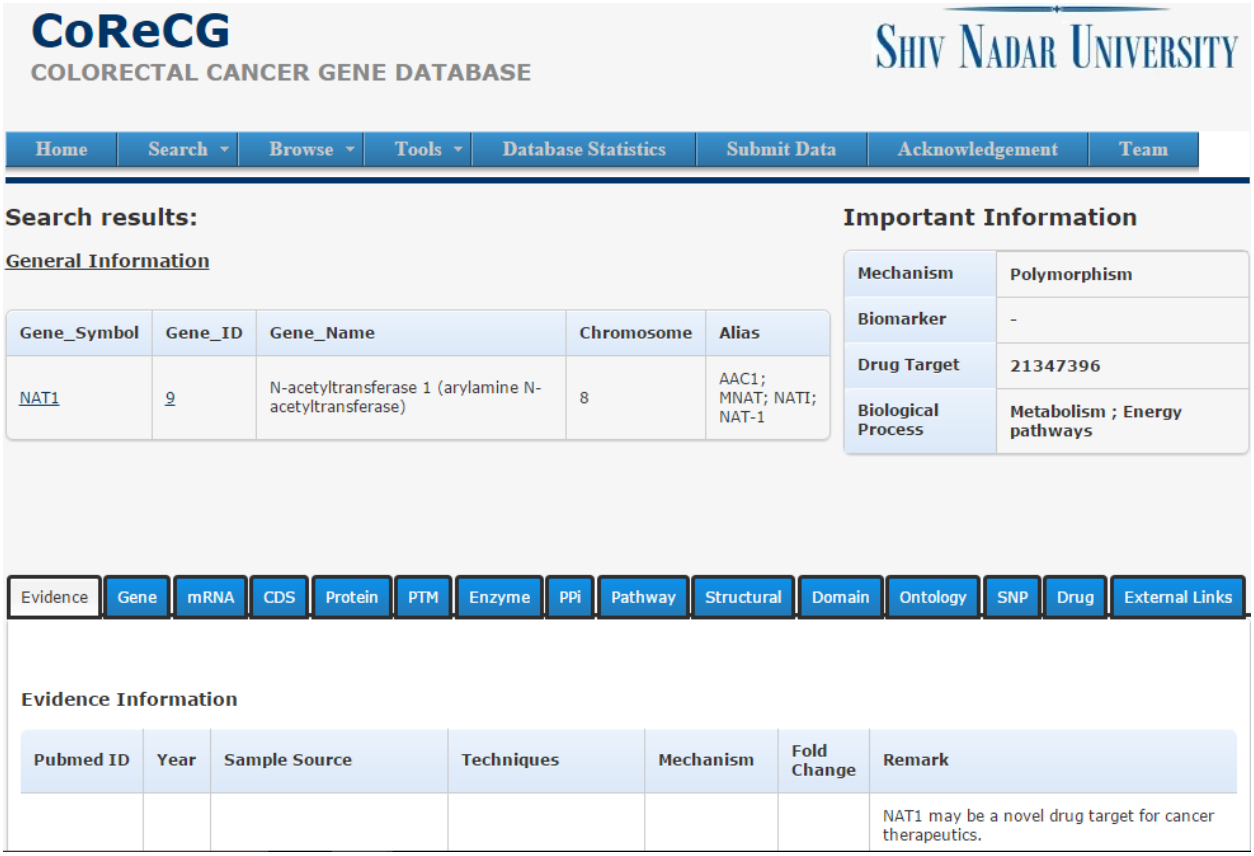


Fig 5: After clicking on Entrez Gene ID or Gene Symbol, search results page opens which include all the information such as general information on left panel and important information on the right panel and other information's can be retrieved by clicking on the various tabs. These tabs contain all the information related to the gene which are stored in the CoReCG database.

In advance search (Fig 6) CoReCG database can be searched using OMIM ID (eg. 108345), Unigene ID (eg. Hs.591847), Ensembl Gene ID (eg. ENSG00000171428), PharmGKB ID (eg. PA17), CCDS ID (eg. CCDS7951.1), Uniprot ID (eg. P18440), Ensembl Protein ID (eg. ENSP00000307218), HPRD ID (eg. 149), HGNC ID (eg. 7645), Pathway Name (eg. ABC transporters), Domain Description (eg. 2a30; K-Cl cotransporter).

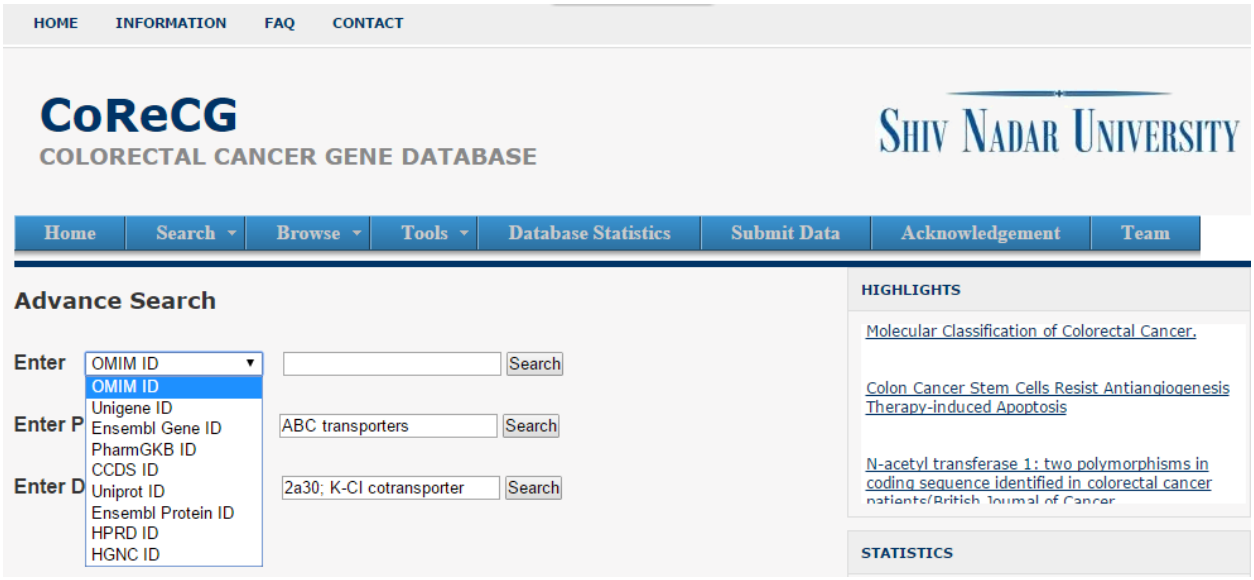


Fig 6: showing Advance search options

Search using Pathway or domain (Fig7), this search option (pathway name and domain description) is equipped with autosearch option also.

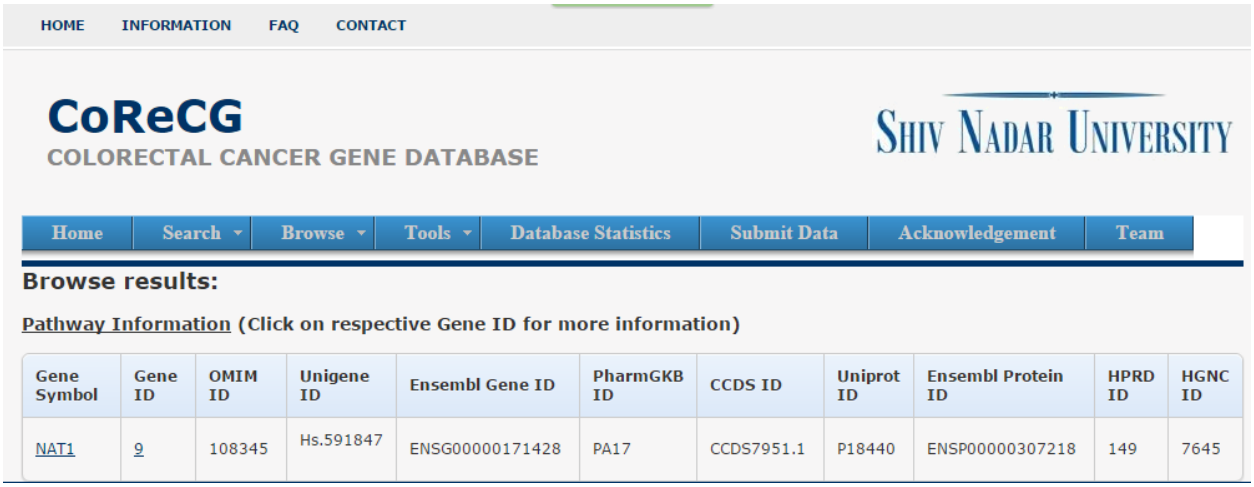


Fig7: Enter using any ID or search using pathway name or domain description.

Search output while search using any of the different IDs like OMIM ID or Unigene ID etc. For Further information click on the Gene ID or Gene Symbol. (Fig 8)

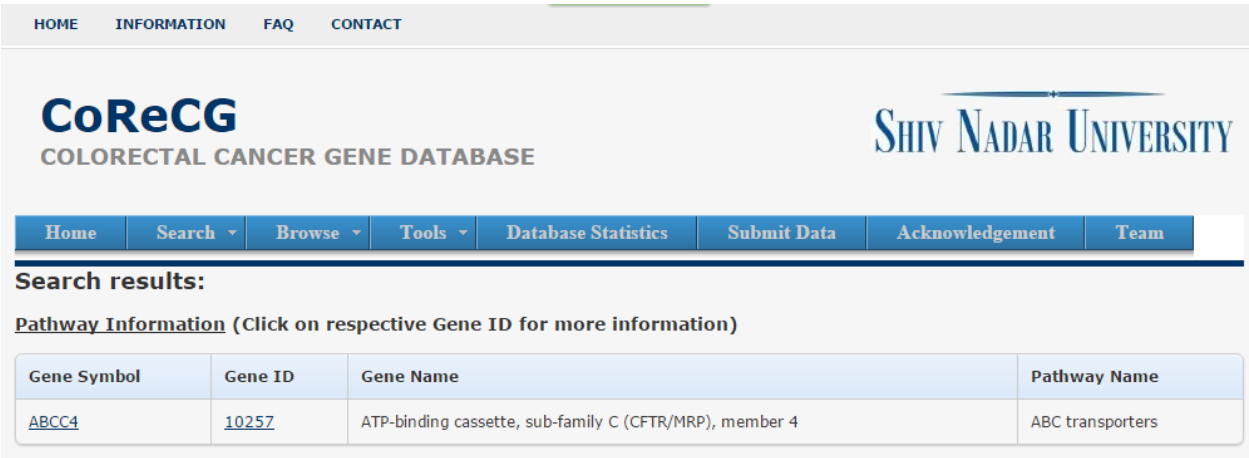


Fig 8: search output using advance search option (like OMIM ID or Unigene ID),If the user is searched using Pathway name or Domain Description, first result page opens having the list of genes involved in the searched pathway name or domain description. For further information of the gene click on the Gene Symbol or Gene ID.

- Sequence search
  In sequence search CoReCG database can be searched using protein sequence or mRNA sequence. Sequence must in the fasta format. User can also upload the fasta file (Fig 9). The result page will provide list of genes having Entrez Gene ID (Fig 10).

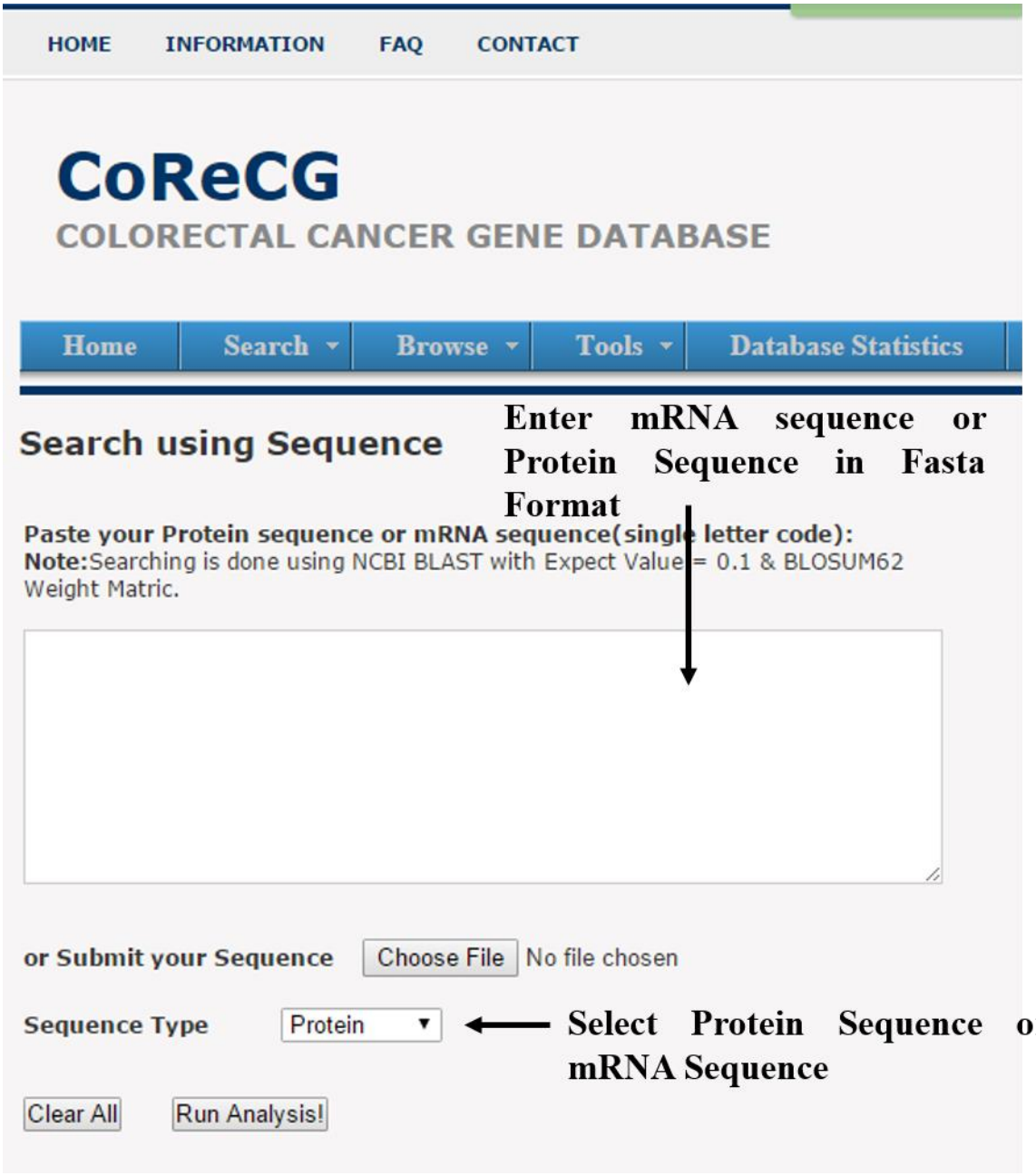


Fig 9: Enter mRNA Sequence or Protein Sequence in fasta format.

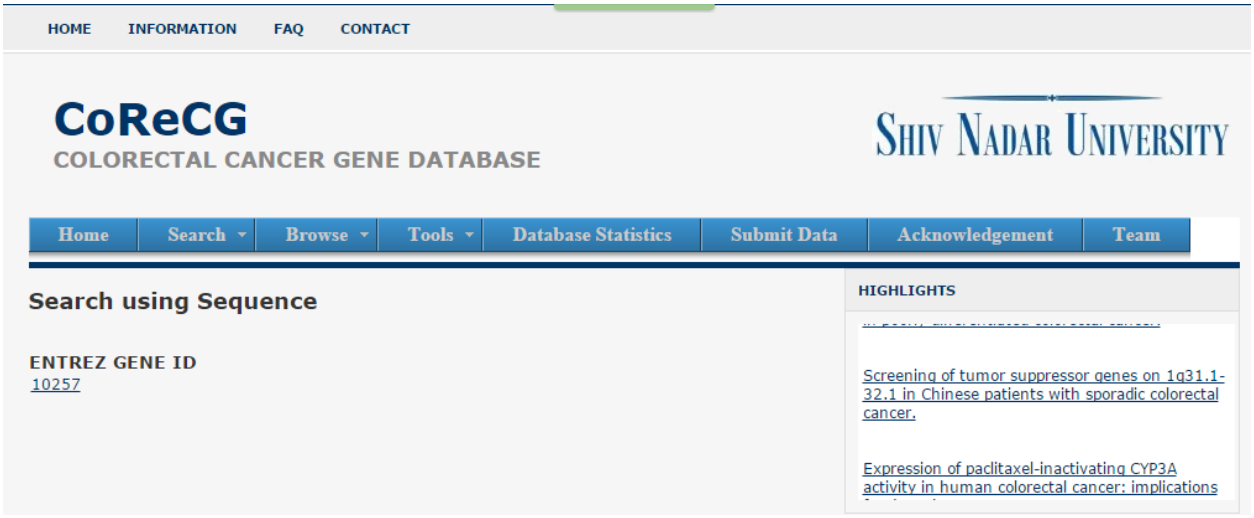


Fig 10: Result page consist the list of the genes having Entrez Gene ID. Further information can be retrieved by clicking on the Entrez Gene ID.

- Pubmed search: In pubmed search CoReCG database can be searched using pubmed id (eg. 9528834) (Fig11). Result page is shown in Fig 12 displaying gene as hits of Pubmed search.

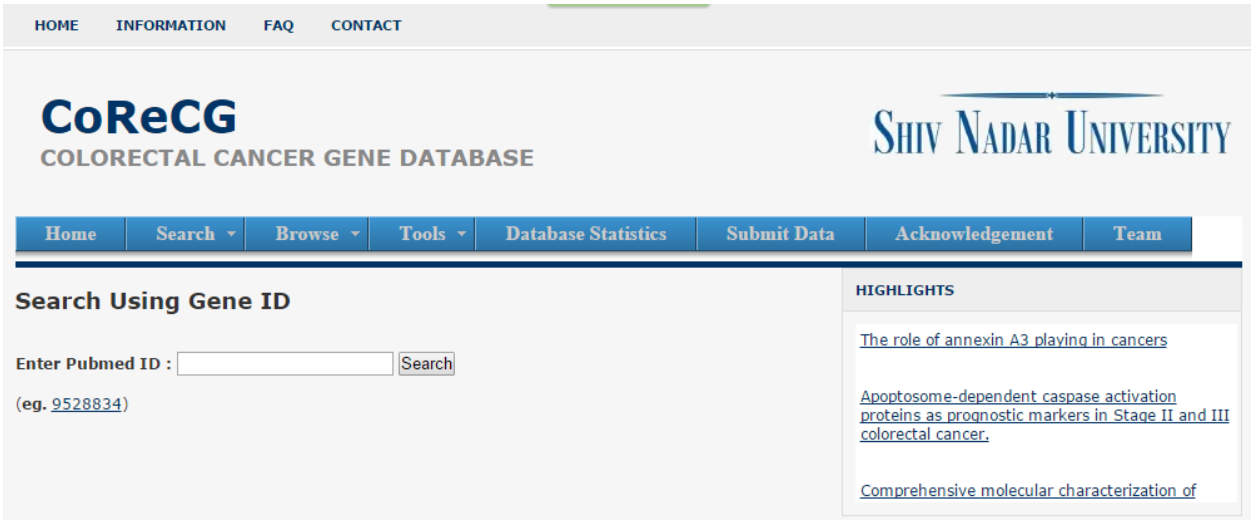


Fig 11: showing pubmed search page option, to search pubmed user needs to enter Pubmed ID.

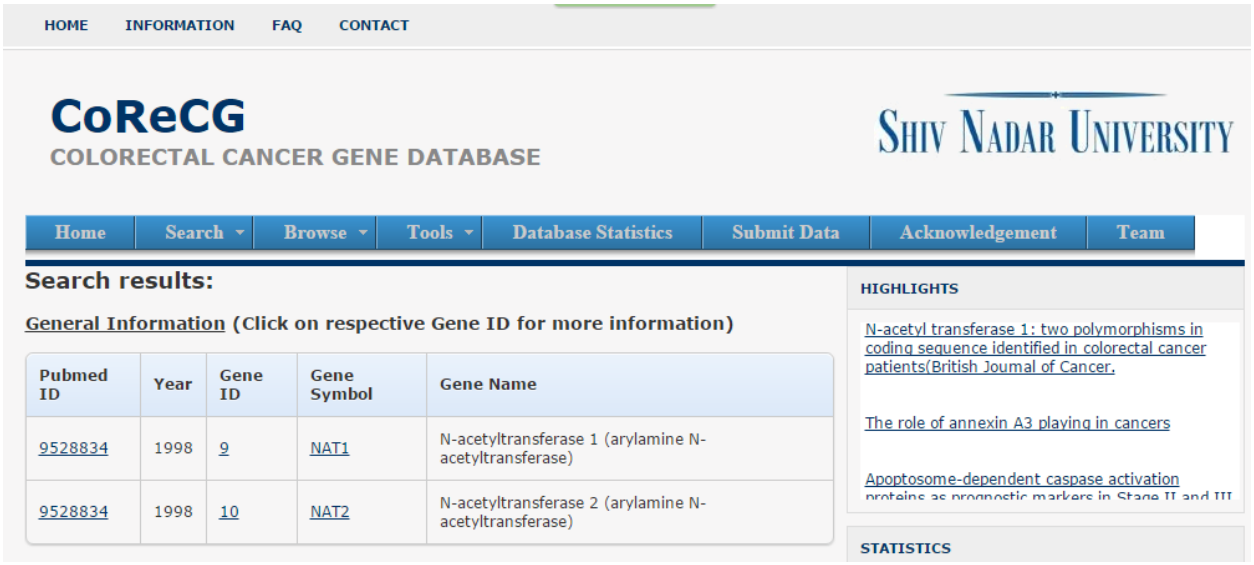


Fig 12: Result page consist of list of genes. Further information can be retrieved by clicking on the Entrez Gene ID or Gene Symbol.