Resource Summary Report

Generated by T1D on Aug 1, 2026

IGDB.NSCLC

RRID:SCR_006048
Type: Tool

Proper Citation

IGDB.NSCLC (RRID:SCR_006048)

Resource Information

URL: http://igdb.nsclc.ibms.sinica.edu.tw/

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Description: IGDB.NSCLC database is aiming to facilitate and prioritize identified lung cancer genes and microRNAs for pathological and mechanistic studies of lung tumorigenesis and for developing new strategies for clinical interventions. We integrated and curated various lung cancer genomic datasets to present # lung cancer genes with somatic mutations, experimental supports and statistic significance in association with clinicopathological features; # genomic alterations with copy number alterations (CNA) detected by high density SNP arrays, gain or loss regions detected by arrayed comparative genome hybridization (aCGH), and loss of heterozygosity (LOH) detected by microsatellite markers; # aberrant expression of genes and microRNAs detected by various microarrays. IGDB.NSCLC database provides user friendly interfaces and searching functions to display multiple layers of evidence for detecting lung cancer target genes and microRNAs, especially emphasizing on concordant alterations: # genes with altered expression located in the CNA regions; # microRNAs with altered expression located in the CNA regions; # somatic mutation genes located in the CNA regions; and # genes associated with clinicopathological features located in the CNA regions. These concordant altered genes and miRNAs should be prioritized for further basic and clinical studies.

Abbreviations: IGDB.NSCLC

Synonyms: Integrated Genomic Database of Non-Small Cell Lung Cancer

Resource Type: data or information resource, database

Defining Citation: PMID:22139933

Keywords: genomic database, non-small cell lung cancer, lung, pulmonary, cancer, genome, lung adenocarcinoma, squamous cell carcinoma, genomic alteration, lung tumorigenesis, copy number alteration, heterozygosity, gene, microrna, somatic mutation,

clinical information, alteration, gene expression, microrna expression, somatic mutation, chromosome, lung cancer gene, aberrant expression, microarray, clinicopathology

Related Condition: Non-small cell lung cancer, Lung cancer, Adenocarcinoma, Squamous Cell Carcinoma

Funding: National Research Program for Genomic Medicine NSC98-3112-B-001-004; National Research Program for Genomic Medicine NSC98-3112-B-001-031; National Science Council Taiwan NSC100-2325-B-001-012

Resource Name: IGDB.NSCLC

Resource ID: SCR_006048

Alternate IDs: nlx_151446

Record Creation Time: 20220129T080234+0000

Record Last Update: 20260729T044132+0000

Ratings and Alerts

No rating or validation information has been found for IGDB.NSCLC.

No alerts have been found for IGDB.NSCLC.

Data and Source Information

Source: SciCrunch Registry

Usage and Citation Metrics

We found 5 mentions in open access literature.

Listed below are recent publications. The full list is available at T1D .

Koul R, et al. (2015) Computer processable classification of craniofacial clefts. Frontiers in physiology, 6, 67.

Adetiba E, et al. (2015) Lung cancer prediction using neural network ensemble with histogram of oriented gradient genomic features. TheScientificWorldJournal, 2015, 786013.

Xu J, et al. (2013) A genetic polymorphism in pre-miR-27a confers clinical outcome of non-small cell lung cancer in a Chinese population. PloS one, 8(11), e79135.

Galperin MY, et al. (2012) The 2012 Nucleic Acids Research Database Issue and the online Molecular Biology Database Collection. Nucleic acids research, 40(Database issue), D1.

Kao S, et al. (2012) IGDB.NSCLC: integrated genomic database of non-small cell lung cancer. Nucleic acids research, 40(Database issue), D972.