

Package ‘LungCancerACvsSCCGEO’

May 15, 2025

Version 1.45.0

Date 2013-7-13

Title A lung cancer dataset that can be used with maPredictDSC package for developing outcome prediction models from Affymetrix CEL files.

Author Adi Laurentiu Tarca <atarca@med.wayne.edu>

Depends R (>= 2.15.0)

Maintainer Adi Laurentiu Tarca <atarca@med.wayne.edu>

Description This package contains 30 Affymetrix CEL files for 7 Adenocarcinoma (AC) and 8 Squamous cell carcinoma (SCC) lung cancer samples taken at random from 3 GEO datasets (GSE10245, GSE18842 and GSE2109) and other 15 samples from a dataset produced by the organizers of the IMPROVER Diagnostic Signature Challenge available from GEO (GSE43580).

License GPL-2

URL <http://bioinformaticsprb.med.wayne.edu/>

biocViews CancerData, LungCancerData, MicroarrayData, GEO

LazyLoad yes

git_url <https://git.bioconductor.org/packages/LungCancerACvsSCCGEO>

git_branch devel

git_last_commit fe531fa

git_last_commit_date 2025-04-15

Repository Bioconductor 3.22

Date/Publication 2025-05-15

Contents

LungCancerACvsSCCGEO	2
Index	3

LungCancerACvsSCCGEO *Annotation of a small set of training and test set samples (30 total) used by team 221 in the IMPROVER DSC for the lung cancer sub-challenge.*

Description

The LungCancerACvsSCCGEO dataset consists: i) a data frame `anoLC` giving the file names of the affy cel files used in the training phase and their corresponding phenotype (AC or SCC) and ii) `gsLC` the gold standard, i.e. the class membership of each test sample appearing in `anoLC`.

Usage

`data(LC)`

Source

GEO for the training data, while the test data comes from the citation below: Adi L. Tarca, Mario Lauria, Michael Unger, Erhan Bilal, Stephanie Boue, Kushal Kumar Dey, Julia Hoeng, Heinz Koepl, Florian Martin, Pablo Meyer, Preetam Nandy, Raquel Norel, Manuel Peitsch, Jeremy J Rice, Roberto Romero, Gustavo Stolovitzky, Marja Talikka, Yang Xiang, Christoph Zechner, and IMPROVER DSC Collaborators, Strengths and limitations of microarray-based phenotype prediction: Lessons learned from the IMPROVER Diagnostic Signature Challenge. *Bioinformatics*, submitted 2013.

Index

* datasets

LungCancerACvsSCCGEO, [2](#)

anoLC (LungCancerACvsSCCGEO), [2](#)

gsLC (LungCancerACvsSCCGEO), [2](#)

LungCancerACvsSCCGEO, [2](#)