

# Package ‘MetaGxBreast’

April 7, 2026

**Type** Package

**Title** Transcriptomic Breast Cancer Datasets

**Version** 1.30.0

**Date** 2020-04-23

**Description** A collection of Breast Cancer Transcriptomic Datasets that are part of the MetaGxData package compendium.

**License** Apache License (>= 2)

**Depends** R (>= 3.6.0), Biobase, AnnotationHub, ExperimentHub

**Imports** stats, lattice, impute, SummarizedExperiment

**Suggests** testthat, xtable, tinytex

**NeedsCompilation** no

**biocViews** ExpressionData, ExperimentHub, CancerData,  
Homo\_sapiens\_Data, ArrayExpress, GEO, NCI, MicroarrayData,  
ExperimentData

**LazyData** yes

**RoxygenNote** 7.1.1

**git\_url** <https://git.bioconductor.org/packages/MetaGxBreast>

**git\_branch** RELEASE\_3\_22

**git\_last\_commit** 679360b

**git\_last\_commit\_date** 2025-10-29

**Repository** Bioconductor 3.22

**Date/Publication** 2026-04-07

**Author** Michael Zon [aut],  
Deena M.A. Gendoo [aut],  
Christopher Eeles [ctb],  
Benjamin Haibe-Kains [aut, cre]

**Maintainer** Benjamin Haibe-Kains <[benjamin.haibe.kains@utoronto.ca](mailto:benjamin.haibe.kains@utoronto.ca)>

## Contents

CAL . . . . .	2
DFHCC . . . . .	5
DFHCC2 . . . . .	7

DFHCC3 . . . . .	9
DUKE . . . . .	10
DUKE2 . . . . .	12
duplicates . . . . .	14
EMC2 . . . . .	15
EORTC10994 . . . . .	16
EXPO . . . . .	18
FNCLCC . . . . .	20
GSE25066 . . . . .	21
GSE32646 . . . . .	24
GSE48091 . . . . .	26
GSE58644 . . . . .	27
HLP . . . . .	29
IRB . . . . .	31
KOO . . . . .	33
loadBreastDatasets . . . . .	35
loadBreastEsets . . . . .	36
LUND . . . . .	37
LUND2 . . . . .	39
MAINZ . . . . .	40
MAQC2 . . . . .	42
MCCC . . . . .	44
MDA4 . . . . .	46
METABRIC . . . . .	48
MSK . . . . .	50
MUG . . . . .	52
NCCS . . . . .	53
NCI . . . . .	55
NKI . . . . .	57
PNC . . . . .	59
STK . . . . .	61
STNO2 . . . . .	63
TCGA . . . . .	65
TRANSBIG . . . . .	67
UCSF . . . . .	70
UNC4 . . . . .	72
UNT . . . . .	75
UPP . . . . .	77
VDX . . . . .	79
<b>Index</b>	<b>82</b>

---

 CAL

*CAL*


---

### Description

ExpressionSet for the CAL Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/17157792
  Title:
  URL: http://www.ebi.ac.uk/arrayexpress/experiments/E-TABM-158/
  PMIDs: 17157792
  No abstract available.
notes:
  summary:
    Recurrent copy number abnormalities differ between tumor subtypes as defined by gene expression patterns. Accuracy of stratification by outcome can be improved by combining expression and copy number.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
    (21169 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

```

assayData: 21169 features, 118 samples
Platform type:
Overall survival time-to-event summary (in years):
Call: survfit(formula = Surv(time, cens) ~ -1)

```

```

  1 observation deleted due to missingness
  n events median 0.95LCL 0.95UCL
117.00  77.00   8.96   8.33   9.71

```

```

-----
Available sample meta-data:
-----

```

```

sample_name:
  Length      Class      Mode
  118 character character

```

```

sample_type:
tumor
  118

```

er:

negative	positive
43	75

pgr:

negative	positive	NA's
51	66	1

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0.300	1.675	2.300	2.729	3.500	7.500	2

N:

0	1
51	67

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
31.00	44.00	51.00	55.06	66.00	88.00	1

grade:

1	2	3	NA's
10	42	61	5

dmfs\_days:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0	767	2059	2094	3336	5183	1

dmfs\_status:

norecurrence	recurrence	NA's
91	26	1

days\_to\_tumor\_recurrence:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
0	767	2059	2094	3336	5183	1

recurrence\_status:

norecurrence	recurrence	NA's
81	36	1

days\_to\_death:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
47	1117	2234	2347	3504	5183	1

vital\_status:

deceased	living
77	41

treatment:

chemo.plus.hormono	chemotherapy	hormonotherapy	untreated
25	36	40	14

NA's  
3

batch:  
CAL  
118

uncurated\_author\_metadata:  
Length Class Mode  
118 character character

### Source

<http://www.ebi.ac.uk/arrayexpress/experiments/E-TABM-158/>

---

DFHCC

*DFHCC*

---

### Description

ExpressionSet for the DFHCC Dataset

### Format

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2826790/
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE19615
  PMIDs: 20098429
  No abstract available.
notes:
  summary:
    A small number of over-expressed and over-amplified genes were significant
ly associated with early recurrence despite adjuvant therapy. This was ve
rified in independent cohorts.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
    (42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

**Details**

assayData: 42447 features, 115 samples  
Platform type:

-----  
Available sample meta-data:  
-----

sample\_name:

Length	Class	Mode
115	character	character

alt\_sample\_name:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
6.0	155.0	230.0	293.3	398.5	828.0

sample\_type:

tumor
115

er:

negative	positive
45	70

pgr:

negative	positive
51	64

her2:

negative	positive
79	36

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.800	1.350	2.100	2.312	2.850	6.500

N:

0	1
62	53

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
32.00	45.00	53.00	53.89	60.00	85.00

grade:

1	2	3
23	28	64

dmfs\_days:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
30	1500	1920	1799	2325	2640

dmfs\_status:

```

norecurrence  recurrence
              101      14

treatment:
chemo.plus.hormono      chemotherapy      hormonotherapy      untreated
                      42                38                22                7
                      NA's
                      6

batch:
DFHCC
115

uncurated_author_metadata:
  Length      Class      Mode
  115 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE19615>

---

DFHCC2

*DFHCC2*


---

**Description**

Test the efficacy of treating TNBC with neoadjuvant cisplatin; explore biomarkers to identify predictors of response

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pmc/articles/PMC2834466/
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE18864
  PMIDs: 20100965

Abstract: A 16 word abstract is available. Use 'abstract' method.
notes:
  summary:
    A subset of the patients experienced a response induced by cisplatin and b
iomarkers were identified that could predict response to cisplatin.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:

```

As published by original author.

```
featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
(42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

## Details

```
assayData: 42447 features, 84 samples
Platform type:
```

```
-----
Available sample meta-data:
-----
```

```
sample_name:
  Length      Class      Mode
    84 character character
```

```
unique_patient_ID:
  Length      Class      Mode
    84 character character
```

```
sample_type:
tumor
  84
```

```
er:
negative positive
  53      31
```

```
pgr:
negative positive
  53      31
```

```
her2:
negative positive
  66      18
```

```
age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
 29.00  45.00   53.00   52.89  59.00   85.00
```

```
grade:
  1  2  3
10 16 58
```

```
treatment:
chemotherapy
  84
```

```
batch:
DFHCC2_CISPLATIN DFHCC2_REFERENCE
                24                60
```

```
uncurated_author_metadata:
  Length    Class    Mode
    84 character character
```

```
duplicates:
  Length    Class    Mode
    84 character character
```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE18864>

---

DFHCC3

*DFHCC3*

---

### Description

ExpressionSet for the DFHCC3 Dataset

### Format

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/16473279
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE3744
  PMIDs: 16473279
  No abstract available.
  notes:
    summary:
      Basal like cancerse_often lack an inactivated X chromosome.e_Other markers
      found were duplication of the active X chromosome ande_nonheterochromatin
      ized X chromosomal DNA. A small subset of X chromosomal genes were overexp
      ressed. These abnormalities are thought to led to the pathogenesis of basa
      l like cancers.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
```

```
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
    (42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

### Details

```
assayData: 42447 features, 40 samples
Platform type:
```

```
-----
Available sample meta-data:
-----
```

```
sample_name:
  Length      Class      Mode
     40 character character
```

```
alt_sample_name:
  Length      Class      Mode
     40 character character
```

```
sample_type:
tumor
   40
```

```
batch:
DFHCC3
   40
```

```
uncurated_author_metadata:
  Length      Class      Mode
     40 character character
```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE3744>

---

DUKE

*DUKE*

---

### Description

ExpressionSet for the DUKE Dataset

### Format

```
experimentData(eset):
Experiment data
  Experimenter name:
```

Laboratory:  
 Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/16273092>  
 Title:  
 URL: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse3143>  
 PMIDs: 16273092  
 No abstract available.  
 notes:

summary:

It was shown that the activation\_status of several oncogenic pathways can be identified by gene expression signatures. These gene signatures identify deregulation of pathways, associations with clinically relevant outcomes, and characteristics of specific cancers and tumor subtypes.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: 1000\_at 1001\_at ... AFX-MurIL4\_at (12085 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 12085 features, 171 samples

Platform type:

Overall survival time-to-event summary (in years):

Call: `survfit(formula = Surv(time, cens) ~ -1)`

1 observation deleted due to missingness

	n	events	median	0.95LCL	0.95UCL
	170.00	43.00	9.01	6.22	NA

-----  
 Available sample meta-data:  
 -----

sample\_name:

Length	Class	Mode
171	character	character

alt\_sample\_name:

Length	Class	Mode
171	character	character

sample\_type:

tumor
171

```
er:
negative positive
      57      114
```

```
pgr:
negative positive  NA's
      23      65      83
```

```
tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
  0.20  1.80    2.30    2.74  3.50    8.50    83
```

```
N:
  0  1 NA's
53 36 82
```

```
days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
171.0  417.0  957.5 1235.0 1852.0 4069.0    1
```

```
vital_status:
deceased  living  NA's
      43    127     1
```

```
batch:
DUKE
171
```

```
uncurated_author_metadata:
  Length    Class    Mode
    171 character character
```

```
duplicates:
DUKE.DUKE_T00.622 DUKE.DUKE_T01.052 DUKE.DUKE_T01.522 DUKE.DUKE_T01.534
              1              1              1              1
              NA's
              167
```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse3143>

---

DUKE2

*DUKE2*

---

### Description

Predicting response with gene signature

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/18024211
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse6861
  PMIDs: 18024211

  Abstract: A 5 word abstract is available. Use 'abstract' method.
  notes:
    summary:
      Retraction in Lancet Feb 2011 (21277543); Regimen specific signatures were
      able to predict pathological complete response. Selecting patients with t
      hese gene signataures could increase the proportion of patients with pCR t
      han by basing clinical decisions on clinical factors.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1053_3p_at 117_3p_at ... X79510cds_3p_s_at (45490
  total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

```

assayData: 45490 features, 160 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
  160 character character

alt_sample_name:
  Length      Class      Mode
  160 character character

sample_type:
tumor
  160

```

```

er:
negative positive
  123      37

pgr:
negative positive  NA's
  133      25      2

N:
  0      1 NA's
 58     95    7

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.    NA's
 26.00  43.00   49.00   49.41  56.00   70.00    35

grade:
  1      2      3 NA's
  2     37     70   51

treatment:
chemotherapy
      160

batch:
DUKE2
  160

uncurated_author_metadata:
  Length      Class      Mode
  160 character character

```

## Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse6861>

---

duplicates	<i>a list containing the names of patients that are believed to be duplicates across datasets</i>
------------	---

---

## Description

The object is a list where each element is a patient ID that is believed to be a duplicate of a patient in another dataset. Patients are designated as duplicated if they have Spearman correlations greater than or equal to 0.98 with other patient expression profiles

## Format

A list with 107 elements, each of which is a patient ID.

EMC2

*EMC2***Description**

ExpressionSet for the EMC2 Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/19421193
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse12276
  PMIDs: 19421193
  No abstract available.
  notes:
    summary:
      Genes were identified that may increase the ability of breast cancer cells
      to infiltrate the blood-brain barrier.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

```

assayData: 42447 features, 204 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
  204 character character

alt_sample_name:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.

```

```

1.00  51.75  102.50  102.50  153.20  204.00

sample_type:
tumor
  204

N:
  0 NA's
  48 156

dmfs_days:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
    0    335    640    799   1098   3507

dmfs_status:
norecurrence  recurrence
           19           185

treatment:
chemotherapy  untreated
           156           48

batch:
EMC2
  204

uncurated_author_metadata:
  Length  Class  Mode
    204 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse12276>

---

EORTC10994

*EORTC10994*

---

**Description**

ExpressionSet for the EORTC10994 Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=15897907
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1561

```

PMIDs: 15897907

No abstract available.

notes:

summary:

The tumors with an apocrine gene expression profile had strong histological apocrine features. These tumors were androgen receptor positive and were all ER negative, creating further classifications of tumor cells based on steroid receptor activity- luminal which are ER and AR positive, basal that are ER and AR negative, and molecular apocrine that are ER negative and AR positive.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: 1007\_s\_at 1053\_at ... AFFX-HUMISGF3A/M97935\_MB\_at  
(20967 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 20967 features, 49 samples

Platform type:

-----  
Available sample meta-data:  
-----

sample\_name:

Length	Class	Mode
49	character	character

alt\_sample\_name:

Length	Class	Mode
49	character	character

sample\_type:

tumor
49

er:

negative	positive
22	27

pgr:

negative	positive	NA's
29	18	2

```
tumor_size:
  1  2  3  4
  4 23 14  8

N:
  0  1
19 30

grade:
  1  2  3 NA's
  4  22 20  3

batch:
EORTC10994
  49

uncurated_author_metadata:
  Length  Class  Mode
  49 character character
```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE1561>

---

EXPO

*EXPO*

---

**Description**

ExpressionSet for the EXPO Dataset

**Format**

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information:
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE2109
  PMIDs:
  No abstract available.
notes:
  summary:
    N/A
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
```

As published by original author.

```
featureData(eset):
An object of class 'AnnotatedDataFrame'
 featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
 (42447 total)
 varLabels: probeset gene EntrezGene.ID best_probe
 varMetadata: labelDescription
```

## Details

```
assayData: 42447 features, 353 samples
Platform type:
```

```
-----
Available sample meta-data:
-----
```

```
sample_name:
  Length      Class      Mode
    353 character character
```

```
alt_sample_name:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  1005  21640  101100  134700  215900  486200
```

```
sample_type:
tumor
  353
```

```
er:
negative positive  NA's
    85      161    107
```

```
pgr:
negative positive  NA's
    114      129    110
```

```
her2:
negative positive  NA's
    166      61    126
```

```
age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  25.00  45.00  55.00  59.44  67.50  95.00    1
```

```
grade:
  1  2  3 NA's
  32 114 151 56
```

```
batch:
EXPO
  353
```

```

uncurated_author_metadata:
  Length      Class      Mode
    353 character character

```

```

duplicates:
EXPO.EXPO_GSM53027 EXPO.EXPO_GSM53059      NA's
                   1                   1      351

```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE2109>

---

FNCLCC

*FNCLCC*

---

### Description

ExpressionSet for the FNCLCC Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=17659439
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE7017
  PMIDs: 17659439
  No abstract available.
  notes:
    summary:
      A potentially more powerful clinicogenomic model was created by combining
      a subset of relevant genes from an already published gene expression signa
      ture and a commonly used clinical prognostic model (NPI). The genes in thi
      s model are known to have a role in breast cancer, carcinogenesis, or chem
      otherapy resistance.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: UMGC_00005 UMGC_00007 ... UMGC_09018 (6064 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 6064 features, 150 samples

Platform type:

-----

Available sample meta-data:

-----

sample\_name:

Length	Class	Mode
150	character	character

alt\_sample\_name:

Length	Class	Mode
150	character	character

sample\_type:

tumor
150

N:

1
150

treatment:

chemotherapy
150

batch:

FNCLCC
150

uncurated\_author\_metadata:

Length	Class	Mode
150	character	character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE7017>

---

GSE25066

*GSE25066*

---

**Description**

ExpressionSet for the GSE25066 Dataset

**Format**

experimentData(eset):  
Experiment data

```

Experimenter name:
Laboratory:
Contact information:
Title:
URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE25066
PMIDs: 21558518
No abstract available.
notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (20967 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 20967 features, 508 samples
Platform type:
-----

```

```

Available sample meta-data:
-----

```

```

sample_name:
  Length      Class      Mode
    508 character character

```

```

alt_sample_name:
  Length      Class      Mode
    508 character character

```

```

sample_type:
tumor
  508

```

```

er:
negative positive  NA's
    205      297     6

```

```

pgr:
negative positive  NA's
    258      243     7

```

```

her2:
negative positive  NA's
      485         6    17

```

```

T:
T0 T1 T2 T3 T4
  3 30 255 145 75

```

```

N:
  0  1
157 351

```

```

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  24.0   42.0   49.0   49.8   58.0   75.0

```

```

grade:
  1  2  3  4 NA's
 32 180 259 15 22

```

```

dmfs_days:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  0.0   636.5   999.9  1088.0  1500.0  2717.0

```

```

dmfs_status:
norecurrence  recurrence
           397           111

```

```

batch:
GSE25066
      508

```

```

uncurated_author_metadata:
  Length    Class    Mode
     508 character character

```

```

chemosensitivity_prediction:
Rx Insensitive  Rx Sensitive
           339           169

```

```

GGI_prediction:
High Low
  336 172

```

```

PAM50_prediction:
  Basal  Her2  LumA  LumB  Normal
    189   37  160   78   44

```

```

dlda30_prediction:
pCR RD
  196 312

```

RCB\_prediction:  
 RCB-0/I RCB-II/III  
 230 278

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE25066>

---

GSE32646

*GSE32646*

---

### Description

ExpressionSet for the GSE32646 Dataset

### Format

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information:
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE32646
  PMIDs: 22320227
  No abstract available.
  notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... 91952_at (42437 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

### Details

```
assayData: 42437 features, 115 samples
Platform type:
-----
Available sample meta-data:
-----
```

```

sample_name:
  Length   Class      Mode
    115 character character

sample_type:
tumor
  115

er:
negative positive
   44      71

pgr:
negative positive
   70      45

her2:
negative positive
   81      34

T:
  1  2  3  4
  5 87 18  5

N:
  0  1
 32 83

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
 27.00  45.00   51.00   51.49  59.00   73.00

grade:
  1  2  3
 16 78 21

batch:
GSE32646
  115

uncurated_author_metadata:
  Length   Class      Mode
    115 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE32646>

GSE48091

*GSE48091***Description**

ExpressionSet for the GSE48091 Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information:
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48091
  PMIDs: 26077471
  No abstract available.
notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 100121619_TGI_at 100121620_TGI_at ... 100314044_TGI_at
  (23246 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

```

assayData: 23246 features, 623 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
    623 character character

sample_type:
tumor
  623

```

```

batch:
GSE48091
  623

uncurated_author_metadata:
  Length      Class      Mode
  623 character character

```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48091>

---

GSE58644

*GSE58644*

---

### Description

ExpressionSet for the GSE58644 Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information:
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE58644
  PMIDs: 25284793
  No abstract available.
notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 7896756 7896759 ... 8180179 (21462 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 21462 features, 321 samples

Platform type:

-----  
 Available sample meta-data:  
 -----

sample\_name:

Length	Class	Mode
321	character	character

alt\_sample\_name:

Length	Class	Mode
321	character	character

sample\_type:

tumor
321

er:

negative	positive	NA's
70	250	1

her2:

negative	positive	NA's
256	58	7

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.600	1.600	2.100	2.354	2.600	15.000

T:

1	2	3	4	NA's
43	59	13	1	205

N:

0	1	NA's
138	151	32

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
29.00	49.00	58.00	58.82	68.00	93.00

grade:

1	2	3	NA's
26	135	159	1

dmfs\_status:

norecurrence	recurrence
295	26

dmfs\_days:

```

      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
      0     9496   17900   21620   33600   52590

treatment:
chemo.plus.hormono      chemotherapy      hormonotherapy      untreated
           91                29                66                10
           NA's
           125

chemo:
  0     1 NA's
105 123  93

tamoxifen:
  0     1 NA's
 39 157 125

herceptin:
  0     1 NA's
190  12 119

batch:
GSE58644
  321

uncurated_author_metadata:
  Length    Class      Mode
  321 character character

duplicates:
  Length    Class      Mode
  321 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE58644>

---

HLP

*HLP*


---

**Description**

ExpressionSet for the HLP Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:

```

Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=19688261>

Title:

URL: <http://www.ebi.ac.uk/arrayexpress/experiments/E-TABM-543/>

PMIDs: 19688261

No abstract available.

notes:

summary:

The results show evidence of different patterns of genetic aberrations in distinct molecular subtypes of breast cancer. Patterns of copy number aberrations may drive biological phenomena characteristic to each subtype.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: 9g8cQB1TZtuiix.u1U fJUdX0IAn\_P9VLTgJU ...

xopB7pPn18FJ067uDs (26536 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 26536 features, 53 samples

Platform type:

-----  
Available sample meta-data:  
-----

sample\_name:

Length	Class	Mode
53	character	character

alt\_sample\_name:

Length	Class	Mode
53	character	character

sample\_type:

tumor
53

er:

negative	positive
28	25

pgr:

negative	positive
33	20

```

her2:
negative positive
      40      13

tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.   NA's
  1.200  1.800  2.450  2.648  3.000  8.000    5

N:
  0    1 NA's
 27  25   1

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.   NA's
 30.00  47.50  53.50  54.96  64.25  81.00    5

grade:
  3
 53

batch:
HLP
 53

uncurated_author_metadata:
  Length    Class      Mode
    53 character character

```

**Source**

<http://www.ebi.ac.uk/arrayexpress/experiments/E-TABM-543/>

---

 IRB

---

 IRB
 

---

**Description**

ExpressionSet for the IRB Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/18297396
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE5460
  PMIDs: 18297396
  No abstract available.

```

```

notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 42447 features, 129 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
    129 character character

alt_sample_name:
  Length      Class      Mode
    129 character character

sample_type:
tumor
  129

er:
negative positive
   53      76

her2:
negative positive
   98      31

tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
 0.800  1.500  2.200  2.488  3.000  8.500

N:
  0 1
64 65

```

```

grade:
  1 2 3
27 32 70

treatment:
untreated
  129

batch:
IRB
129

uncurated_author_metadata:
  Length      Class      Mode
  129 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE5460>

---

K00

*KOO*

---

**Description**

link does not work, in progress<sup>8</sup>

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/12747878
  Title:
  URL: Unavailable
  PMIDs: 12747878

```

Abstract: A 6 word abstract is available. Use 'abstract' method.

notes:

summary:

A new gene signature was used to accurately predict 90  
n the study.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

```
featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at (280
  total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

## Details

assayData: 280 features, 88 samples

Platform type:

-----  
 Available sample meta-data:  
 -----

```
sample_name:
  Length      Class      Mode
      88 character character
```

```
alt_sample_name:
  Length      Class      Mode
      88 character character
```

sample\_type:

```
tumor
  88
```

er:

```
negative positive
      15      73
```

pgr:

```
negative positive
      23      65
```

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.20	1.80	2.30	2.74	3.50	8.50

N:

```
0 1
19 69
```

treatment:

```
chemotherapy      untreated
      61      27
```

batch:

```
KOO
  88
```

```

uncurated_author_metadata:
  Length      Class      Mode
    88 character character

duplicates:
  Length      Class      Mode
    88 character character

```

**Source**

Unavailable

---

loadBreastDatasets	<i>Function to load breast cancer SummarizedExperiment objects from the Experiment Hub</i>
--------------------	--

---

**Description**

This function returns breast cancer datasets from the hub and a vector of patients from the datasets that are duplicates based on a spearman correlation > 0.98

**Usage**

```

loadBreastDatasets(
  rescale = FALSE,
  minNumberGenes = 0,
  minNumberEvents = 0,
  minSampleSize = 0,
  keepCommonOnly = FALSE,
  imputeMissing = FALSE,
  removeDuplicates = FALSE
)

```

**Arguments**

rescale	apply centering and scaling to the expression sets (default FALSE)
minNumberGenes	an integer specifying to remove expression sets with less genes than this number (default 0)
minNumberEvents	an integer specifying how man survival events must be in the dataset to keep the dataset (default 0)
minSampleSize	an integer specifying the minimum number of patients required in a summarizedExperiment (default 0)
keepCommonOnly	remove entrezIDs not common to all datasets (default FALSE)
imputeMissing	remove patients from datasets with missing expression values
removeDuplicates	remove patients with a Spearman correlation greater than or equal to 0.98 with other patient expression profiles (default TRUE)

**Value**

A 'list' with 2 elements. The First element named 'SummarizedExperiment's contains the datasets. The second element named duplicates contains a vector with patient IDs for the duplicate patients (those with Spearman correlation greater than or equal to 0.98 with other patient expression profiles).

---

loadBreastEsets	<i>Function to load breast cancer expression sets from the Experiment Hub</i>
-----------------	---

---

**Description**

This function returns breast cancer datasets from the hub and a vector of patients from the datasets that are most likely duplicates

**Usage**

```
loadBreastEsets(
  loadString = "majority",
  removeDuplicats = TRUE,
  quantileCutoff = 0,
  rescale = FALSE,
  minNumberGenes = 0,
  minNumberEvents = 0,
  minSampleSize = 0,
  removeRetracted = TRUE,
  removeSubsets = TRUE,
  keepCommonOnly = FALSE,
  imputeMissing = FALSE
)
```

**Arguments**

loadString	a character vector specifying which data will be loaded. The default is "majority", which loads in 37 of the 39 datasets. The other option is to provide a character vecotr of the names of the datasets to load. The metabric and tcga datasets areloaded separately as they are very large and doing so will help prevent memory allocation errors for R windows. Furthermore, these datasets are so large that they dominate statistical analyses so it is best that they are analyzed separate of the 37 smaller datasets loaded with the string majority
removeDuplicats	remove patients with a Spearman correlation greater than or equal to 0.98 with other patient expression profiles (default TRUE)
quantileCutoff	A nueric between 0 and 1 specifying to remove genes with standard deviation below the required quantile (default 0)
rescale	apply centering and scaling to the expression sets (default FALSE)
minNumberGenes	an integer specifying to remove expression sets with less genes than this number (default 0)

**minNumberEvents** an integer specifying how many survival events must be in the dataset to keep the dataset (default 0)  
**minSampleSize** an integer specifying the minimum number of patients required in an eset (default 0)  
**removeRetracted** remove datasets from retracted papers (default TRUE, currently just PMID17290060 dataset)  
**removeSubsets** remove datasets that are a subset of other datasets (default TRUE, currently just PMID19318476)  
**keepCommonOnly** remove probes not common to all datasets (default FALSE)  
**imputeMissing** remove patients from datasets with missing expression values

### Value

a list with 2 elements. The first element named `esets` contains the datasets. The second element named `duplicates` contains a vector with patient IDs for the duplicate patients (those with Spearman correlation greater than or equal to 0.98 with other patient expression profiles).

### Examples

```
## Use the default loadString="majority" if you want the 37 smaller datasets
esetsAndDups <- loadBreastEsets(loadString = c("CAL", "DFHCC", "DFHCC2",
  "DFHCC3", "DUKE", "DUKE2", "EMC2"))
```

---

LUND

*LUND*

---

### Description

ExpressionSet for the LUND Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=18430221
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE31863
  PMIDs: 18430221
  No abstract available.
  notes:
    summary:
      A significant difference was found between the ER positive subgroup and ER
      negative subgroup in the gene expression profiles.
    mapping.method:
      maxRowVariance
    mapping.group:

```

```

EntrezGene.ID
preprocessing:
  As published by original author.

```

```

featureData(eset):
An object of class 'AnnotatedDataFrame'
 featureNames: H200006618 H200006808 ... H300022925 (11154 total)
 varLabels: probeset gene EntrezGene.ID best_probe
 varMetadata: labelDescription

```

## Details

```

assayData: 11154 features, 143 samples
Platform type:
-----

```

```

Available sample meta-data:
-----

```

```

sample_name:
  Length      Class      Mode
    143 character character

```

```

alt_sample_name:
  Length      Class      Mode
    143 character character

```

```

sample_type:
tumor
  143

```

```

er:
negative positive
    29      114

```

```

pgr:
negative positive      NA's
    47      88      8

```

```

tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.   NA's
  0.200  1.100  1.500  1.486  1.800  4.000    2

```

```

N:
  0
143

```

```

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  27.00  47.50  56.00  54.76  63.00  73.00

```

```

batch:
LUNDS1 LUNDS2 LUNDS3 LUNDS4

```

30 47 22 44

```

uncurated_author_metadata:
  Length      Class      Mode
    143 character character

```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE31863>

---

LUND2

*LUND2*

---

### Description

ExpressionSet for the LUND2 Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=17452630
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE5325
  PMIDs: 17452630
  No abstract available.
  notes:
    summary:
      Microarray signature was able to show PTEN mRNA losse_when IHC was unable,
      even though tumors exhibited PTEN loss behavior. Stathmim was an accurate
      IHC marker of the signature and had prognostic significance.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1 2 ... 27648 (22008 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 22008 features, 105 samples

Platform type:

-----

Available sample meta-data:

-----

sample\_name:

Length	Class	Mode
105	character	character

alt\_sample\_name:

Length	Class	Mode
105	character	character

sample\_type:

tumor
105

er:

negative	positive
60	45

treatment:

hormonotherapy
105

batch:

LUND2
105

uncurated\_author\_metadata:

Length	Class	Mode
105	character	character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE5325>

---

MAINZ

*MAINZ*

---

**Description**

ExpressionSet for the MAINZ Dataset

**Format**

experimentData(eset):  
Experiment data

```

Experimenter name:
Laboratory:
Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=18593943
Title:
URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE11121
PMIDs: 18593943
No abstract available.
notes:
  summary:
    Poor prognosis is noted in tumors with low ER expression, showing the highest level of proliferative activity. In some tumors with highly expressed B-cell or T-cell metagenes, metastases rarely occurred, even with high proliferation and low ER expression.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (20967 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 20967 features, 200 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
    200 character character

alt_sample_name:
  Length      Class      Mode
    200 character character

sample_type:
tumor
  200

er:
negative positive
   38      162

tumor_size:

```

```

      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
0.100   1.500   2.000   2.070   2.425   6.000

N:
  0
200

age_at_initial_pathologic_diagnosis:
      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
25.00   50.00   60.00   59.98   69.00   90.00

grade:
  1   2   3
29 136 35

dmfs_days:
      Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
   30   1905   2715   2816   3855   7200

dmfs_status:
norecurrence  recurrence
           154           46

treatment:
untreated
      200

batch:
MAINZ
      200

uncurated_author_metadata:
      Length    Class      Mode
      200 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE11121>

---

MAQC2

*MAQC2*

---

**Description**

ExpressionSet for the MAQC2 Dataset

**Format**

```

experimentData(eset):
Experiment data

```

```

Experimenter name:
Laboratory:
Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=20064235
Title:
URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE20194
PMIDs: 20064235
No abstract available.
notes:
  summary:
    It is possible to build multi-gene classifiers of clinical outcome. Prediction accuracy depends on training sample size and classification difficulty.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (20967 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 20967 features, 230 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
  230 character character

alt_sample_name:
  Length      Class      Mode
  230 character character

sample_type:
tumor
  230

er:
negative positive
  89      141

pgr:
negative positive

```

```

      126      104

her2:
negative positive
      190      40

N:
  0  1
66 164

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
 26.00  45.00   51.00   52.02  59.00   79.00

grade:
  1  2  3
13 94 123

treatment:
chemotherapy
      230

batch:
MAQC2
      230

uncurated_author_metadata:
  Length    Class      Mode
      230 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE20194>

---

MCCC

*MCCC*

---

**Description**

ExpressionSet for the MCCC Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=19960244
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE19177

```

PMIDs: 19960244

No abstract available.

notes:

summary:

Overall, expression and copy number profiling of familial tumors have shown that the tumors show molecular heterogeneity similar to sporadic tumors and are defined by their molecular subtypes rather than BRCA1 or BRCA2 germline mutation status.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: probe\_10017 probe\_10021 ... probe\_7650767 (19048 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 19048 features, 75 samples

Platform type:

Available sample meta-data:

sample\_name:

Length	Class	Mode
75	character	character

sample\_type:

tumor
75

batch:

MCCC
75

uncurated\_author\_metadata:

Length	Class	Mode
75	character	character

## Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE19177>

MDA4

*MDA4***Description**

ExpressionSet for the MDA4 Dataset

**Format**

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=16896004
  Title:
  URL: http://bioinformatics.mdanderson.org/pubdata.html
  PMIDs: 16896004
  No abstract available.
notes:
  summary:
    The developed 30-probe set has high sensitivity and negative predictive value, accurately identifying 12 out of 13 patients with pCR and 27 out of 28 patients with residual disease.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
    (21169 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

```

assayData: 21169 features, 129 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
    129 character character

unique_patient_ID:

```

```

      Length   Class   Mode
      129 character character

sample_type:
tumor
  129

er:
negative positive  NA's
   48      79      2

pgr:
negative positive  NA's
   73      54      2

her2:
negative positive
  114      15

tumor_size:
  Min. 1st Qu.  Median  Mean 3rd Qu.  Max.  NA's
  0.000  0.500  1.800  2.162  3.000  10.000  8

N:
  0  1 NA's
 59 62  8

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median  Mean 3rd Qu.  Max.
  28.00  43.00  51.00  51.43  61.00  73.00

treatment:
chemotherapy
  129

batch:
MDA4
  129

uncurated_author_metadata:
  Length   Class   Mode
  129 character character

duplicates:
MDA4.MDA4_M207 MDA4.MDA4_M400  NA's
              1              1  127

```

**Source**

<http://bioinformatics.mdanderson.org/pubdata.html>

---

 METABRIC

 METABRIC
 

---

## Description

ExpressionSet for the METABRIC Dataset

## Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/22522925
  Title:
  URL: https://www.ebi.ac.uk/ega/studies/EGAS00000000083
  PMIDs: 22522925
  No abstract available.
notes:
  summary:

  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: ILMN_1802380 ILMN_1736104 ... ILMN_1709472 (36155
  total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 36155 features, 2136 samples
Platform type:
Overall survival time-to-event summary (in years):
Call: survfit(formula = Surv(time, cens) ~ -1)

```

```

  165 observations deleted due to missingness
    n  events  median 0.95LCL 0.95UCL
1971.0  891.0   12.3   11.6   13.2

```

```

-----
Available sample meta-data:
-----

```

```

sample_name:
  Length   Class      Mode
  2136 character character

alt_sample_name:
  Length   Class      Mode
  2136 character character

sample_type:
healthy  tumor
  144    1992

er:
negative positive  NA's
  440    1508    188

her2:
negative positive  NA's
  676    148    1312

tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  0.000  1.700    2.300    2.621  3.000  18.200  164

N:
  0    1 NA's
1042 950 144

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  21.93  51.36    61.78    61.13  70.76    96.29  13

grade:
  1    2    3 NA's
  170  775  957  234

days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  3    1498    2632    2948  4357    9218  147

vital_status:
deceased  living  NA's
  891    1081    164

treatment:
chemo.plus.hormono  chemotherapy  hormonotherapy  untreated
  196                226                1029                685

batch:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  1.000  1.000    3.000    2.613  3.000    5.000  144

```

```

uncurated_author_metadata:
  Length   Class   Mode
  2136 character character

```

```

duplicates:
  Length   Class   Mode
  2136 character character

```

### Source

<https://www.ebi.ac.uk/ega/studies/EGAS00000000083>

---

MSK	<i>MSK</i>
-----	------------

---

### Description

ExpressionSet for the MSK Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=16049480
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2603
  PMIDs: 16049480
  No abstract available.
  notes:
    summary:
      A set of genes were identified that mark and mediate metastasis to the lung. Some genes confer growth advantages to both the breast tumor and lung environment, while others contribute to aggressive growth specifically in the lung.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
  (20967 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 20967 features, 99 samples  
 Platform type:

-----  
 Available sample meta-data:  
 -----

sample\_name:  
 Length Class Mode  
 99 character character

alt\_sample\_name:  
 Length Class Mode  
 99 character character

sample\_type:  
 tumor  
 99

er:  
 negative positive  
 42 57

pgr:  
 negative positive NA's  
 55 43 1

her2:  
 positive NA's  
 85 14

tumor\_size:  
 Min. 1st Qu. Median Mean 3rd Qu. Max.  
 1.100 2.450 3.200 3.624 4.300 10.000

N:  
 0 1  
 34 65

age\_at\_initial\_pathologic\_diagnosis:  
 Min. 1st Qu. Median Mean 3rd Qu. Max.  
 30.00 46.50 56.00 55.81 63.50 87.00

dmfs\_days:  
 Min. 1st Qu. Median Mean 3rd Qu. Max. NA's  
 245 1279 1971 1888 2575 3924 17

dmfs\_status:  
 norecurrence recurrence NA's  
 55 27 17

batch:

MSK  
99

uncurated\_author\_metadata:  
Length Class Mode  
99 character character

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2603>

---

MUG

*MUG*

---

### Description

ExpressionSet for the MUG Dataset

### Format

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=18592372
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse10510
  PMIDs: 18592372
  No abstract available.
  notes:
    summary:
      A method was developed to separate tumor cells and their microenvironment
      to test the prognostic abilities of the immune system. Results showed that
      lymphatic infiltration is beneficial for ER negative patients, but probab
      ly not beneficial for ER positive patients.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: H200000001 H200000005 ... opHsV04TC000043 (14288 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

**Details**

assayData: 14288 features, 152 samples

Platform type:

-----

Available sample meta-data:

-----

sample\_name:

Length	Class	Mode
152	character	character

alt\_sample\_name:

Length	Class	Mode
152	character	character

sample\_type:

tumor
152

batch:

MUG
152

uncurated\_author\_metadata:

Length	Class	Mode
152	character	character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse10510>

---

NCCS

*NCCS*

---

**Description**

ExpressionSet for the NCCS Dataset

**Format**

experimentData(eset):

Experiment data

  Experimenter name:

  Laboratory:

  Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=18636107>

  Title:

  URL: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse5364>

  PMIDs: 18636107

  No abstract available.

  notes:

```

summary:
  48 genes were identified that displayed highly restricted levels of expres
sion in tumors compared to normal tissues. This was validated in 11 indepe
ndent cohorts of different cancer types.
mapping.method:
  maxRowVariance
mapping.group:
  EntrezGene.ID
preprocessing:
  As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
 featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
 (20967 total)
 varLabels: probeset gene EntrezGene.ID best_probe
 varMetadata: labelDescription

```

## Details

```

assayData: 20967 features, 183 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length   Class      Mode
  183 character character

alt_sample_name:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.
  1.0   46.5   92.0   92.0  137.5  183.0

sample_type:
tumor
  183

batch:
NCCS
  183

uncurated_author_metadata:
  Length   Class      Mode
  183 character character

```

## Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse5364>

---

 NCI

 NCI
 

---

**Description**

ExpressionSet for the NCI Dataset

**Format**

experimentData(eset):

Experiment data

  Experimenter name:

  Laboratory:

  Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=12917485>

  Title:

  URL: Supplemental data from paper

  PMIDs: 12917485

  No abstract available.

  notes:

    summary:

      Expression patterns were strongly associated with ER status, moderately associated with grade, but not associated with menopausal state, node status, or tumor size. Genes that were significantly associated with survival were identified.

    mapping.method:

      maxRowVariance

    mapping.group:

      EntrezGene.ID

    preprocessing:

      As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

  featureNames: AF106966 AF217974 ... Y12473 (5154 total)

  varLabels: probeset gene EntrezGene.ID best\_probe

  varMetadata: labelDescription

**Details**

assayData: 5154 features, 99 samples

Platform type:

-----

Available sample meta-data:

-----

sample\_name:

Length	Class	Mode
99	character	character

alt\_sample\_name:

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
	21580	21610	21640	21650	21670	21830

sample\_type:

tumor	99
-------	----

er:

negative	34
positive	65

tumor\_size:

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
	0.80	1.80	2.50	2.82	3.00	8.00

N:

0	1
46	53

age\_at\_initial\_pathologic\_diagnosis:

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
	33.00	49.00	57.00	57.47	64.50	90.00

grade:

1	2	3
16	38	45

days\_to\_tumor\_recurrence:

	Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
	8	967	2057	1969	2930	4067

recurrence\_status:

norecurrence	54
recurrence	45

treatment:

chemotherapy	10
hormonotherapy	78
untreated	11

batch:

NCI	99
-----	----

uncurated\_author\_metadata:

Length	Class	Mode
99	character	character

### Source

Supplemental data from paper

NKI

NKI

**Description**

ExpressionSet for the NKI Dataset

**Format**

experimentData(eset):

Experiment data

Experimenter name:

Laboratory:

  Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=12490681>; <http://www.ncbi.nlm.nih.gov/pubmed/11823860>

Title:

URL: Not available

PMIDs: 12490681, 11823860

No abstract available.

notes:

summary:

    It was found that the gene expression profile that was studied was more powerful in predicting outcome of disease in younger patients than using standard clinical and pathological criteria.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: Contig45645\_RC Contig44916\_RC ... Contig62037\_RC (14960 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

**Details**

assayData: 14960 features, 337 samples

Platform type:

Overall survival time-to-event summary (in years):

Call: survfit(formula = Surv(time, cens) ~ -1)

42 observations deleted due to missingness				
n	events	median	0.95LCL	0.95UCL
295	79	NA	NA	NA

-----  
Available sample meta-data:

```

-----
sample_name:
  Length   Class   Mode
    337 character character

alt_sample_name:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
    4.0  123.0   215.0   214.1  312.0   404.0

sample_type:
tumor
  337

er:
negative positive
   88    249

tumor_size:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  0.200  1.500   2.000   2.241  2.800   5.500

N:
  0  1
193 144

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  26.0  40.0   45.0   44.2  49.0   62.0

grade:
  1  2  3
  79 109 149

dmfs_days:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
    9  1252   2414   2546  3602   6699   18

dmfs_status:
norecurrence  recurrence  NA's
      210      109      18

days_to_tumor_recurrence:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
    9  1252   2414   2546  3602   6699   18

recurrence_status:
norecurrence  recurrence  NA's
      210      109      18

days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's

```

20 1934 2637 2870 3763 6694 42

## vital\_status:

deceased	living	NA's
79	216	42

## treatment:

chemotherapy	hormonotherapy	untreated
90	40	207

## batch:

NKI	NKI2
117	220

## uncurated\_author\_metadata:

Length	Class	Mode
337	character	character

**Source**

Not available

---

PNC

*PNC*

---

**Description**

ExpressionSet for the PNC Dataset

**Format**

experimentData(eset):

Experiment data

Experimenter name:

Laboratory:

Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=21910250>

Title:

URL: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE20711>

PMIDs: GSE20711, PMID 21910250

No abstract available.

notes:

summary:

Breast tumors can be further divided than the currently known expression subtypes based on DNA methylation profiles.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

```
featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at
(42447 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription
```

## Details

```
assayData: 42447 features, 92 samples
Platform type:
Overall survival time-to-event summary (in years):
Call: survfit(formula = Surv(time, cens) ~ -1)
```

```
  4 observations deleted due to missingness
    n events median 0.95LCL 0.95UCL
88.0  25.0     NA    11.3     NA
```

```
-----
Available sample meta-data:
-----
```

```
sample_name:
  Length      Class      Mode
    92 character character
```

```
alt_sample_name:
  Length      Class      Mode
    92 character character
```

```
sample_type:
tumor
  92
```

```
er:
negative positive  NA's
   43      45      4
```

```
pgr:
negative positive  NA's
   43      40      9
```

```
her2:
negative positive  NA's
   64      26      2
```

```
tumor_size:
  Min. 1st Qu. Median Mean 3rd Qu. Max. NA's
 0.900  1.700  2.500  2.758  3.000 10.000  6
```

```
N:
```

```

0      1 NA's
43    40    9

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
 32.16  48.57   53.90   55.97  64.84   82.13    4

grade:
  1      2      3 NA's
 13     5    70    4

days_to_tumor_recurrence:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
   29    967    2216   2122  2931   5139    7

recurrence_status:
norecurrence  recurrence          NA's
           49             36             7

days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.    Max.   NA's
  318    1940    2372   2525  3043   5139    4

vital_status:
deceased  living    NA's
       25      63      4

batch:
PNC
92

uncurated_author_metadata:
  Length    Class      Mode
    92 character character

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE20711>

---

 STK

 STK
 

---

**Description**

ExpressionSet for the STK Dataset

**Format**

```

experimentData(eset):
Experiment data

```

```

Experimenter name:
Laboratory:
Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=16280042
Title:
URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse1456
PMIDs: 16280042
No abstract available.
notes:
  summary:
    Expression profiling was able to better predict prognosis compared to histological staging.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... 244889_at (36178 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 36178 features, 159 samples
Platform type:
-----
Available sample meta-data:
-----

sample_name:
  Length      Class      Mode
  159 character character

alt_sample_name:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  1.0   67.0   136.0   138.3  208.5   277.0

sample_type:
tumor
  159

er:
negative positive
  29      130

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  31.0   48.0   56.0   57.8   68.5   87.0

```

## grade:

1	2	3	NA's
28	58	61	12

## days\_to\_tumor\_recurrence:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
66	2022	2467	2234	2846	3099

## recurrence\_status:

norecurrence	recurrence
113	46

## treatment:

chemotherapy	hormonotherapy	untreated
89	48	22

## batch:

STK  
159

## uncurated\_author\_metadata:

Length	Class	Mode
159	character	character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse1456>

---

STNO2

*STNO2*

---

**Description**

ExpressionSet for the STNO2 Dataset

**Format**

## experimentData(eset):

Experiment data

Experimenter name:

Laboratory:

Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=12829800>

Title:

URL: [http://smd.princeton.edu/cgi-bin/publication/viewPublication.pl?pub\\_no=248](http://smd.princeton.edu/cgi-bin/publication/viewPublication.pl?pub_no=248)

PMIDs: 12829800

No abstract available.

notes:

summary:

Distinct breast cancer subtypes were determined by gene expression profile s and were validated in other published datasets.

```

mapping.method:
  maxRowVariance
mapping.group:
  EntrezGene.ID
preprocessing:
  As published by original author.

```

```

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: IMAGE:1020315 IMAGE:1030271 ... IMAGE:971399 (3663
  total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 3663 features, 118 samples
Platform type:
Overall survival time-to-event summary (in years):
Call: survfit(formula = Surv(time, cens) ~ -1)

```

n	events	median	0.95LCL	0.95UCL
118.00	46.00	4.67	3.34	NA

```

-----
Available sample meta-data:
-----

```

```

sample_name:
  Length      Class      Mode
  118 character character

```

```

alt_sample_name:
  Length      Class      Mode
  118 character character

```

```

sample_type:
tumor
  118

```

```

er:
negative positive  NA's
  31      82      5

```

```

tumor_size:
  1  2  3  4 NA's
  6 13 62 32  5

```

```

N:
  0  1 NA's
 34 79  5

```

```

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  21.00  46.25  58.00  58.47  71.75  85.00

grade:
  1    2    3 NA's
  11  49  53   5

days_to_tumor_recurrence:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  122.0  396.0  761.0  927.9  1233.0  2800.0  23

recurrence_status:
norecurrence  recurrence
           58           60

days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
   91   426   898   1019  1392   5722

vital_status:
deceased  living
    46     72

treatment:
  chemotherapy  hormonotherapy  untreated
            23             73             22

batch:
STN02
  118

uncurated_author_metadata:
  Length    Class    Mode
  118 character character

```

**Source**

[http://smd.princeton.edu/cgi-bin/publication/viewPublication.pl?pub\\_no=248](http://smd.princeton.edu/cgi-bin/publication/viewPublication.pl?pub_no=248)

---

TCGA

*TCGA*

---

**Description**

ExpressionSet for the TCGA Dataset

**Format**

experimentData(eset):

```

Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/23000897
  Title:
  URL: http://cancergenome.nih.gov/
  PMIDs: 23000897
  No abstract available.
  notes:
    summary:

    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: A1BG A2M ... ARHGAP11A.2 (19504 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

## Details

```

assayData: 19504 features, 1073 samples
Platform type:
Overall survival time-to-event summary (in years):
Call: survfit(formula = Surv(time, cens) ~ -1)

```

```

      n events median 0.95LCL 0.95UCL
1073.00 103.00  10.05   8.56   12.05

```

```

-----
Available sample meta-data:
-----

```

```

sample_name:
  Length      Class      Mode
  1073 character character

```

```

alt_sample_name:
  Length      Class      Mode
  1073 character character

```

```

unique_patient_ID:
  Length      Class      Mode
  1073 character character

```

```

sample_type:
tumor

```

1073

```
er:
negative positive  NA's
      233      790    50
```

```
pgr:
negative positive  NA's
      334      686    53
```

```
her2:
negative positive  NA's
      549      161   363
```

```
age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
  26.00  49.00   58.00   58.48  68.00   90.00
```

```
days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.
   -7.0  137.0   412.0   820.3 1180.0 6796.0
```

```
vital_status:
deceased  living
      103     970
```

```
batch:
TCGA
1073
```

```
uncurated_author_metadata:
  Length    Class      Mode
    1073 character character
```

**Source**

<http://cancergenome.nih.gov/>

---

 TRANSBIG

*TRANSBIG*


---

**Description**

ExpressionSet for the TRANSBIG Dataset

**Format**

```
experimentData(eset):
Experiment data
  Experimenter name:
```

Laboratory:

Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=17545524>

Title:

URL: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gsE7390>

PMIDs: 17545524

No abstract available.

notes:

summary:

The 76-gene signature was validated. The results supports the hypothesis that utilizing the gene signature could reduce the number of patients who receive unnecessary adjuvant therapy.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: 1007\_s\_at 1053\_at ... AFFX-HUMISGF3A/M97935\_MB\_at  
(20967 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 20967 features, 198 samples

Platform type:

Overall survival time-to-event summary (in years):

Call: `survfit(formula = Surv(time, cens) ~ -1)`

n	events	median	0.95LCL	0.95UCL
198.0	56.0	NA	17.1	NA

-----  
Available sample meta-data:  
-----

sample\_name:

Length	Class	Mode
198	character	character

sample\_type:

tumor  
198

er:

negative	positive
64	134

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.600	1.700	2.000	2.181	2.500	5.000

N:  
0  
198

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
24.00	42.00	46.00	46.39	51.00	60.00

grade:

1	2	3	NA's
30	83	83	2

dmfs\_days:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
125	2375	4384	3954	5566	9108

dmfs\_status:

norecurrence	recurrence
147	51

days\_to\_tumor\_recurrence:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
121	1528	3534	3399	5130	8711

recurrence\_status:

norecurrence	recurrence
112	86

days\_to\_death:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
146	2744	4562	4150	5610	9108

vital\_status:

deceased	living
56	142

treatment:

untreated
198

batch:

VDXGUYU	VDXIGRU	VDXKIU	VDXOXFU	VDXRHU
36	50	51	24	37

uncurated\_author\_metadata:

Length	Class	Mode
198	character	character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gsE7390>

---

UCSF

*UCSF*

---

**Description**

ExpressionSet for the UCSF Dataset

**Format**

experimentData(eset):

Experiment data

  Experimenter name:

  Laboratory:

  Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=17428335>; <http://www.ncbi.nlm.nih.gov/pubmed/14612510>

  Title:

  URL: Not available

  PMIDs: 17428335, 14612510

  No abstract available.

  notes:

    summary:

      A gene set was identified that correctly predicted outcomes more effectively than using histological markers.

    mapping.method:

      maxRowVariance

    mapping.group:

      EntrezGene.ID

    preprocessing:

      As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

  featureNames: probe\_1 probe\_3 ... probe\_10365 (8015 total)

  varLabels: probeset gene EntrezGene.ID best\_probe

  varMetadata: labelDescription

**Details**

assayData: 8015 features, 162 samples

Platform type:

Overall survival time-to-event summary (in years):

Call: `survfit(formula = Surv(time, cens) ~ -1)`

  29 observations deleted due to missingness

    n  events  median  0.95LCL  0.95UCL

133.00  44.00  11.56   9.25      NA

-----

Available sample meta-data:

-----

sample\_name:  
 Length Class Mode  
 162 character character

alt\_sample\_name:  
 Length Class Mode  
 162 character character

sample\_type:  
 tumor  
 162

er:  
 negative positive NA's  
 41 101 20

pgr:  
 negative positive NA's  
 46 94 22

her2:  
 negative positive NA's  
 35 19 108

tumor\_size:  
 Min. 1st Qu. Median Mean 3rd Qu. Max. NA's  
 0.000 1.800 2.000 2.682 3.200 11.000 7

N:  
 0 1 NA's  
 67 82 13

age\_at\_initial\_pathologic\_diagnosis:  
 Min. 1st Qu. Median Mean 3rd Qu. Max. NA's  
 28.00 44.00 53.00 56.61 70.00 88.00 9

grade:  
 1 2 3 NA's  
 14 62 74 12

dmfs\_days:  
 Min. 1st Qu. Median Mean 3rd Qu. Max. NA's  
 47 897 2040 2084 2992 8267 29

dmfs\_status:  
 norecurrence recurrence  
 140 22

days\_to\_tumor\_recurrence:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
47	861	1865	1985	2847	8267	29

recurrence\_status:

norecurrence	recurrence
125	37

days\_to\_death:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
47	1087	2054	2140	3087	8267	29

vital\_status:

deceased	living	NA's
54	99	9

treatment:

chemo.plus.hormono	chemotherapy	hormonotherapy	untreated
31	38	61	22
NA's			
10			

batch:

UCSF

162

uncurated\_author\_metadata:

Length	Class	Mode
162 character	character	

**Source**

Not available

---

UNC4

*UNC4*

---

**Description**

ExpressionSet for the UNC4 Dataset

**Format**

```
experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=20813035
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse18229
  PMIDs: 20813035
```

No abstract available.

notes:

summary:

Clinically, this subtype is usually triple negative invasive ductal carcinomas with a poor prognosis. Response to standard of care preoperative chemotherapy is intermediate between basal-like and luminal tumors. The claudin-low subtype most closely resembles the mammary epithelial stem cell.

mapping.method:

maxRowVariance

mapping.group:

EntrezGene.ID

preprocessing:

As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

featureNames: probe.10 probe.12 ... probe.79701 (5420 total)

varLabels: probeset gene EntrezGene.ID best\_probe

varMetadata: labelDescription

## Details

assayData: 5420 features, 305 samples

Platform type:

Overall survival time-to-event summary (in years):

Call: survfit(formula = Surv(time, cens) ~ -1)

65 observations deleted due to missingness

n	events	median	0.95LCL	0.95UCL
240.00	51.00	7.73	6.82	NA

-----  
Available sample meta-data:  
-----

sample\_name:

Length	Class	Mode
305	character	character

sample\_type:

tumor  
305

er:

negative	positive	NA's
99	154	52

pgr:

negative	positive	NA's
126	109	70

her2:

```

negative positive  NA's
      203      58      44

tumor_size:
  1 1.5  3   6 NA's
60  1 129 43  72

N:
  0   1 NA's
126 135  44

age_at_initial_pathologic_diagnosis:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
 24.00  46.00  55.00  56.73  68.00  89.00  59

grade:
  1   2   3 NA's
 25  80 138  62

days_to_tumor_recurrence:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
  30.0  450.0  750.0  954.3 1380.0 3540.0  64

recurrence_status:
norecurrence  recurrence      NA's
           170           70           65

days_to_death:
  Min. 1st Qu.  Median    Mean 3rd Qu.  Max.  NA's
   30   540   885   1104  1590  5190  65

vital_status:
deceased  living  NA's
   51    189   65

batch:
UNC4
305

uncurated_author_metadata:
  Length  Class  Mode
   305 character character

duplicates:
K00.K00_KF_105 K00.K00_T01_514  NA's
              1              1   303

```

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse18229>

---

 UNT
 

---



---

 UNT
 

---

**Description**

ExpressionSet for the UNT Dataset

**Format**

experimentData(eset):

Experiment data

  Experimenter name:

  Laboratory:

  Contact information: <http://www.ncbi.nlm.nih.gov/pubmed/?term=16478745>; <http://www.ncbi.nlm.nih.gov/pubmed/17401012>

  Title:

  URL: <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2990>

  PMIDs: 16478745, 17401012

  No abstract available.

  notes:

    summary:

      A gene expression grading index (GGI) was developed. The GGI reclassified grade 2 patients into two groups with low and high risks of recurrence.

    mapping.method:

      maxRowVariance

    mapping.group:

      EntrezGene.ID

    preprocessing:

      As published by original author.

featureData(eset):

An object of class 'AnnotatedDataFrame'

  featureNames: 1007\_s\_at 1053\_at ... 244889\_at (36084 total)

  varLabels: probeset gene EntrezGene.ID best\_probe

  varMetadata: labelDescription

**Details**

assayData: 36084 features, 133 samples

Platform type:

-----  
 Available sample meta-data:

sample\_name:

Length	Class	Mode
133	character	character

alt\_sample\_name:

Length	Class	Mode
133	character	character

sample\_type:

tumor  
133

er:

negative	positive	NA's
40	86	7

pgr:

negative	positive	NA's
6	56	71

tumor\_size:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
0.000	1.200	1.900	1.892	2.300	6.000

N:

0  
133

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
24.00	44.00	53.00	51.79	60.00	73.00

grade:

1	2	3	NA's
32	51	29	21

dmfs\_days:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
61	1338	2809	2724	4078	5305

dmfs\_status:

norecurrence	recurrence	NA's
97	28	8

days\_to\_tumor\_recurrence:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
61	1338	2675	2687	3912	5305

recurrence\_status:

norecurrence	recurrence	NA's
76	49	8

treatment:

untreated  
133

batch:

KIU OXFU  
64 69

```

uncurated_author_metadata:
  Length      Class      Mode
    133 character character

```

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2990>

---

UPP

UPP

---

### Description

ExpressionSet for the UPP Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=16141321
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse3494
  PMIDs: 16141321
  No abstract available.
  notes:
    summary:
      A 32-gene expression signature of p53 was identified that differentiates p
-53 mutant and wild-type tumors. The signature is more effective than sequ
ence-based assessments of p53 in predicting prognosis and therapeutic resp
onse.
    mapping.method:
      maxRowVariance
    mapping.group:
      EntrezGene.ID
    preprocessing:
      As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... 244889_at (36178 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 36178 features, 251 samples  
Platform type:

-----  
Available sample meta-data:  
-----

sample\_name:  
Length Class Mode  
251 character character

alt\_sample\_name:  
Length Class Mode  
251 character character

sample\_type:  
tumor  
251

er:  
negative positive NA's  
34 213 4

pgr:  
negative positive  
61 190

tumor\_size:  
Min. 1st Qu. Median Mean 3rd Qu. Max.  
0.200 1.500 2.000 2.243 2.562 13.000

N:  
0 1 NA's  
158 84 9

age\_at\_initial\_pathologic\_diagnosis:  
Min. 1st Qu. Median Mean 3rd Qu. Max.  
28.00 52.00 64.00 62.11 72.00 93.00

grade:  
1 2 3 NA's  
67 128 54 2

days\_to\_tumor\_recurrence:  
Min. 1st Qu. Median Mean 3rd Qu. Max. NA's  
30 1870 3711 3007 3985 4654 17

recurrence\_status:  
norecurrence recurrence NA's  
181 55 15

treatment:

hormonotherapy	untreated	NA's
80	142	29

batch:  
UPPT UPPU  
80 171

uncurated\_author\_metadata:  
Length Class Mode  
251 character character

### Source

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse3494>

---

VDX

VDX

---

### Description

ExpressionSet for the VDX Dataset

### Format

```

experimentData(eset):
Experiment data
  Experimenter name:
  Laboratory:
  Contact information: http://www.ncbi.nlm.nih.gov/pubmed/?term=15721472; http://www.ncbi.nlm.nih.gov/pubmed/?term=17420468
  Title:
  URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2034; http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse3494
  PMIDs: 15721472, 17420468
  No abstract available.
notes:
  summary:
    15721472: A gene signature was identified that can accurately predict distant metastases in node-negative cases. 17420468: Tumors with a lung metastatic gene signature were shown to be larger.
  mapping.method:
    maxRowVariance
  mapping.group:
    EntrezGene.ID
  preprocessing:
    As published by original author.

featureData(eset):
An object of class 'AnnotatedDataFrame'
  featureNames: 1007_s_at 1053_at ... AFFX-HUMISGF3A/M97935_MB_at (21169 total)
  varLabels: probeset gene EntrezGene.ID best_probe
  varMetadata: labelDescription

```

**Details**

assayData: 21169 features, 344 samples  
 Platform type:

-----  
 Available sample meta-data:  
 -----

sample\_name:

Length	Class	Mode
344	character	character

alt\_sample\_name:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
3.0	122.8	605.5	575.7	836.5	2038.0

sample\_type:

tumor
344

er:

negative	positive
135	209

tumor\_size:

1	2	3	4	NA's
146	132	5	3	58

N:

0
344

age\_at\_initial\_pathologic\_diagnosis:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.	NA's
26.00	44.00	52.00	53.88	63.00	83.00	58

grade:

1	2	3	NA's
7	42	148	147

dmfs\_days:

Min.	1st Qu.	Median	Mean	3rd Qu.	Max.
61	1254	2616	2377	3285	5201

dmfs\_status:

norecurrence	recurrence
226	118

treatment:

untreated
344

batch:

VDX VDXN  
286 58

uncurated\_author\_metadata:  
Length Class Mode  
344 character character

**Source**

<http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2034>; <http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse5>

# Index

## \* datasets

CAL, [2](#)  
DFHCC, [5](#)  
DFHCC2, [7](#)  
DFHCC3, [9](#)  
DUKE, [10](#)  
DUKE2, [12](#)  
duplicates, [14](#)  
EMC2, [15](#)  
EORTC10994, [16](#)  
EXPO, [18](#)  
FNCLCC, [20](#)  
GSE25066, [21](#)  
GSE32646, [24](#)  
GSE48091, [26](#)  
GSE58644, [27](#)  
HLP, [29](#)  
IRB, [31](#)  
KOO, [33](#)  
LUND, [37](#)  
LUND2, [39](#)  
MAINZ, [40](#)  
MAQC2, [42](#)  
MCCC, [44](#)  
MDA4, [46](#)  
METABRIC, [48](#)  
MSK, [50](#)  
MUG, [52](#)  
NCCS, [53](#)  
NCI, [55](#)  
NKI, [57](#)  
PNC, [59](#)  
STK, [61](#)  
STN02, [63](#)  
TCGA, [65](#)  
TRANSBIG, [67](#)  
UCSF, [70](#)  
UNC4, [72](#)  
UNT, [75](#)  
UPP, [77](#)  
VDX, [79](#)

DFHCC, [5](#)  
DFHCC2, [7](#)  
DFHCC3, [9](#)  
DUKE, [10](#)  
DUKE2, [12](#)  
duplicates, [14](#)

EMC2, [15](#)  
EORTC10994, [16](#)  
EXPO, [18](#)

FNCLCC, [20](#)

GSE25066, [21](#)  
GSE32646, [24](#)  
GSE48091, [26](#)  
GSE58644, [27](#)

HLP, [29](#)

IRB, [31](#)

KOO, [33](#)

loadBreastDatasets, [35](#)  
loadBreastEsets, [36](#)  
LUND, [37](#)  
LUND2, [39](#)

MAINZ, [40](#)  
MAQC2, [42](#)  
MCCC, [44](#)  
MDA4, [46](#)  
METABRIC, [48](#)  
MSK, [50](#)  
MUG, [52](#)

NCCS, [53](#)  
NCI, [55](#)  
NKI, [57](#)

PNC, [59](#)

STK, [61](#)  
STN02, [63](#)

CAL, [2](#)

TCGA, [65](#)  
TRANSBIG, [67](#)

UCSF, [70](#)  
UNC4, [72](#)  
UNT, [75](#)  
UPP, [77](#)

VDX, [79](#)