Package 'MetaGxBreast'

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Type Package

Title Transcriptomic Breast Cancer Datasets

Version 1.30.0

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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

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Contents

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 defin
ed 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 activatione_status of several oncogenic pathways can
bee_identified by gene expression signatures. These gene signatures ident
ify deregulation of pathways, associations with clinically relevant outcom
es, 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 ... AFFX-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

---

dupplicates	*a list containing the names of patients that are believed to be dulicates across datasets*

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 histologica
l 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 th
at 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 aber
rations 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.ulU 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

KOO   *KOO*

Description

link does not work, in progress8

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	*Function to load breast cancer SummarizedExperiment objects from the Experiment Hub*

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   *Function to load breast cancer expression sets from the Experiment Hub*

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",
  removeDuplicates = 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

removeDuplicates
                  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 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 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 (defeault 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

<div style="text-align:center">LUND2   *LUND2*</div>

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 high
est level of proliferative activity. In some tumors with highly expressed
B-cell or T-cell metagenes, metastases rarely occurred, even with high pro
liferation 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. Predic
tion accuracy depends on training sample size and classification difficult
y.
    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 show
n that the tumors show molecular heterogeneity similar to sporadic tumors
and are defined by their molecular subtypes rather than BRCA1 or BRCA2 ger
mline 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 va
lue, accurately identifying 12 out of 13 patients with pCR and 27 out of 2
8 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   *MSK*

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 lun
g. Some genes confer growth advantages to both the breast tumor and lung e
nvironment, while others contribute to aggressive growth specifically in t
he 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 as
sociated with grade, but not associated with menopausal state, node status
, or tumor size. Genes that were significantly associated with survival we
re 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 positive
      34       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    recurrence
          54            45

treatment:
  chemotherapy hormonotherapy      untreated
            10             78             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.
  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 po
werful in predicting outcome of disease in younger patients than using sta
ndard 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 s
ubtypes 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 hist
ological 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
  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:
STNO2
  118

uncurated_author_metadata:
   Length     Class      Mode
      118 character character
```

Source

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 t
hat utilizing the gene signature could reduce the number of patients who r
eceive 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.
  Title:
  URL: Not available
  PMIDs: 17428335, 14612510
  No abstract available.
  notes:
   summary:
      A gene set was identified that correctly predicted outcomes more effective
ly 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 carcin
omas with a poor prognosis. Response to standard of care preoperative chem
otherapy is intermediate between basal-like and luminal tumors. The claudi
n-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.
  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
 Title:
 URL: http://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=gse2034; http://www.ncbi.nlm.nih.gov/geo
 PMIDs: 15721472, 17420468
 No abstract available.
 notes:
  summary:
     15721472: A gene signature was identified that can accurately predict dist
ant metastases in node-negative cases. 17420468: Tumors with a lung metast
atic 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