Acute Lymphoblastic Leukemia Data from the Ritz Laboratory

Description

The data consist of microarrays from 128 different individuals with acute lymphoblastic leukemia (ALL). A number of additional covariates are available. The data have been normalized (using rma) and it is the jointly normalized data that are available here. The data are presented in the form of an exprSet object.

Usage

data(ALL)

Format

The different covariates are:

- **cod**: The patient IDs.
- **diagnosis**: The date of diagnosis.
- **sex**: The sex of the patient, coded as M and F.
- **age**: The age of the patient in years.
- **BT**: The type and stage of the disease; B indicates B-cell ALL while a T indicates T-cell ALL.
- **remission**: A factor with two levels, either CR indicate that remission was achieved or REF indicating that the patient was refractory and remission was not achieved.
- **CR**: A vector with the following values: 1: “CR”, remission achieved; 2: “DEATH IN CR”, patient died while in remission; 3: “DEATH IN INDUCTION”, patient died while in induction therapy; 4: “REF”, patient was refractory to therapy.
- **date.cr**: The date on which remission was achieved.
- **t(4;11)**: A logical vector indicating whether a t(4;11) translocation was detected.
• t(9;22) A logical vector indicating whether a t(9;22) translocation was detected.
• cyto.normal A logical vector indicating whether the cytogenetics were normal.
• citog A vector indicating the various cytogenetic abnormalities that were detected.
• mol.biol The assigned molecular biology of the cancer (mainly for those with B-cell ALL),
  BCRABL, ALLAF4, E2APBX etc.
• fusion protein For those with BCRABL which of the fusion proteins was detected,
p190,p190\p210,p210.
• mdr The patients response to multidrug resistance, either NEG, or POS.
• kinet ploidy, either diploid or hyperd.
• ccr A vector indicating whether the patient had continuous complete remission nor not.
• relapse A vector indicating whether the patient had relapse or not.
• transplant Did the patient receive a bone marrow transplant or not.
• f.u Follow-up data. The possible values are 1: “AUBMT REL”: autologous bone marrow
  transplant and subsequent relapse; 2: “BMT CCR”: allogeneic bone marrow transplant and
  still in continuous complete remission; 3: “BMT DEATH IN CR”: after allogeneic bone
  marrow transplant patient died without relapsing; 4: “BMT REL”: after allogeneic bone
  marrow transplant patient relapsed; 5: “CCR”: patient was in continuous complete remission;
  6: “CCR OFF”: patient was in continuous complete remission but off-protocol for some
  reasons; 7: “DEATH IN CR”: died when in complete remission; 8: “MUD DEATH IN CR”:
  unrelated allogeneic bone marrow transplant and death without relapsing; 9: “REL”: relapse;
  10: “REL SNC”: relapse occurred at central nervous system.
• date last seen Date the patient was last seen.

Source
Sabina Chiaretti, Xiaochun Li, Robert Gentleman, Antonella Vitale, Marco Vignetti, Franco Man-
delli, Jerome Ritz, and Robin Foa Gene expression profile of adult T-cell acute lymphocytic leukemia
identifies distinct subsets of patients with different response to therapy and survival. Blood, 1 April

Examples
data(ALL)

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tojulian

Convert Calendar Date to Julian Time

Description
Convert Calendar Date in the form of ”%m/%d/%Y” to Julian time, number of days since 1970-01-
01 in the time zone of ”GMT”.

Usage
tojulian(x)

Arguments
x Date to convert
tojulian

Author(s)

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