Package 'tuberculosis'

February 3, 2026

Title Tuberculosis Gene Expression Data for Machine Learning

Description The tuberculosis R/Bioconductor package features tuberculosis gene
expression data for machine learning. All human samples from GEO that did
not come from cell lines, were not taken postmortem, and did not feature
recombination have been included. The package has more than 10,000 samples
from both microarray and sequencing studies that have been processed from
raw data through a hyper-standardized, reproducible pipeline.

biocViews ExperimentHub, ExpressionData, Homo_sapiens_Data,
MicroarrayData, SequencingData, ReproducibleResearch

Version 1.17.0

License Artistic-2.0

Depends R (>= 4.1.0), SummarizedExperiment

Imports AnnotationHub, ExperimentHub, S4Vectors, dplyr, magrittr,
purrr, rlang, stringr, tibble, tidyr

Suggests BiocStyle, ggplot2, knitr, readr, rmarkdown, scater, usethis,
utils

URL https://github.com/schifferl/tuberculosis

BugReports https://github.com/schifferl/tuberculosis/issues

Encoding UTF-8

Roxygen list(markdown = TRUE)

RoxygenNote 7.3.3

VignetteBuilder knitr

git_url https://git.bioconductor.org/packages/tuberculosis

git_branch devel

git_last_commit dcbbafb

git_last_commit_date 2025-10-29

Repository Bioconductor 3.23

Date/Publication 2026-02-03

Author Lucas Schiffer [aut, cre] (ORCID:
<https://orcid.org/0000-0003-3628-0326>)

Maintainer Lucas Schiffer <schiffer.lucas@gmail.com>

Contents

---

tuberculosis	*find/get tuberculosis gene expression data*

Description

To find or get tuberculosis gene expression data, users will use the `tuberculosis` function. The `dryrun` argument allows users to test a query prior to returning resources. When `dryrun = TRUE`, the function will print the names of matching resources as a message and return them invisibly as a character vector. When `dryrun = FALSE`, the function will either download resources from `ExperimentHub` or load them from the user's local cache. If a resource has multiple creation dates, the most recent is selected by default; add a date to override this behavior.

Usage

```
tuberculosis(pattern, dryrun = TRUE)
```

Arguments

pattern	regular expression pattern to look for in the titles of resources available in tuberculosis; "." will return all resources
dryrun	if TRUE (the default), a character vector of resource names is returned invisibly; if FALSE, a list of resources is returned

Value

if dryrun = TRUE, a character vector of resource names is returned invisibly; if dryrun = FALSE, a list of resources is returned

Examples

```
tuberculosis("GSE103147")
```

Index