## Package 'tissueTreg'

May 9, 2023

```
Title TWGBS and RNA-seq data from tissue T regulatory cells from mice Version 1.20.0
```

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**Description** The package provides ready to use epigenomes (obtained from TWGBS) and transcriptomes (RNA-seq) from various tissues as obtained in the study (Delacher and Imbusch 2017, PMID: 28783152).

Regulatory T cells (Treg cells) perform two distinct functions: they maintain self-tolerance, and they support organ homeostasis by differentiating into specialized tissue Treg cells. The underlying dataset characterises the epigenetic and transcriptomic modifications for specialized tissue Treg cells.

Depends R (>= 3.5) License GPL (>= 2) Encoding UTF-8 LazyData true

**Imports** 

**Suggests** BiocStyle, knitr, rmarkdown, testthat, ExperimentHub, bsseq, SummarizedExperiment

VignetteBuilder knitr

**biocViews** ExperimentData, Tissue, Mus\_musculus\_Data, SequencingData, RNASeqData

URL https://github.com/cimbusch/tissueTreg

RoxygenNote 6.0.1

git\_url https://git.bioconductor.org/packages/tissueTreg

git\_branch RELEASE\_3\_17
git\_last\_commit 7dde082

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#### **Description**

The package provides ready to use epigenomes (obtained from TWGBS) and transcriptomes (RNA-seq) from various tissues. Regulatory T cells (Treg cells) perform two distinct functions: they maintain self-tolerance, and they support organ homeostasis by differentiating into specialized tissue Treg cells. The underlying dataset characterises the epigenetic and transcriptomic modifications for specialized tissue Treg cells.

#### **Source**

Delacher, M, Imbusch, CD, Weichenhan, D, Breiling, A, Hotz-Wagenblatt, A, Träger, U, Hofer, AC, Kägebein, D, Wang, Q, Frauhammer, F, Mallm, JP, Bauer, K, Herrmann, C, Lang, PA, Brors, B, Plass, C, Feuerer, M (2017). Genome-wide DNA-methylation landscape defines specialization of regulatory T cells in tissues. Nat. Immunol., 18, 10:1160-1172.

#### **Examples**

```
eh <- ExperimentHub::ExperimentHub()
se_rpkms <- eh[["EH1074"]]</pre>
```

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