Package ‘systemPipeRdata’

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Title systemPipeRdata: NGS workflow templates and sample data
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Description systemPipeRdata is a helper package to generate with a single command NGS workflow templates that are intended to be used by its parent package systemPipeR. The latter is an environment for building end-to-end analysis pipelines with automated report generation for next generation sequence (NGS) applications such as RNA-Seq, RIBO-Seq, ChIP-Seq, VAR-Seq and many others. Detailed examples for using systemPipeRdata are given in systemPipeR's overview vignette.

Depends methods
Imports BiocGenerics
Suggests RUnit, BiocStyle, knitr, rmarkdown, systemPipeR

VignetteBuilder knitr
License Artistic-2.0
NeedsCompilation no

URL https://github.com/tgirke/systemPipeRdata

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Description
Generates workflow templates for systemPipeR package. The template environments contain a predefined directory structure along with run parameter files and sample data. The structure of the workflow templates and the sample data are described in all details in the Overview Vignette of the systemPipeR package here: http://bioconductor.org/packages/systemPipeR.

Usage
genWorkenvir(workflow, mydirname=NULL, bam=FALSE)

Arguments
workflow Can be assigned workflow type as character string. Supported values are: rnaseq, riboseq, varseq or chipseq
mydirname Specifies the name of the workflow directory. The default NULL uses the name of the chosen workflow. An error is issued if a directory of the same name and path exists already.
bam If bam=TRUE pregenerated short read alignment (BAM) files will be included in the results directory of the workflow environment. Note, these BAM files have been generated with the HISAT2 aligner using the FASTQ files provided in the data directory. The default bam=FALSE omits this step meaning no BAM files will be copied into the results directory.

Value
Workflow directory containing sample data and parameter files along with the following subdirectories:
- param/ stores parameter files
- data/ stores input data
- results/ stores output results

For more details, please consult the Overview Vignette (HTML) of the systemPipeR package (http://bioconductor.org/packages/systemPipeR).

Author(s)
Thomas Girke

Examples
## Return location of sample data
samplepaths <- pathList()
## Not run:
## Generate varseq workflow environment
genWorkenvir(workflow="varseq", mydirname=NULL)
setwd("varseq")
## End(Not run)
pathList

Description
Function to return paths to sample data provided by systemPipeRdata package.

Usage
pathList()

Value
list

Author(s)
Thomas Girke

Examples
samplepaths <- pathList()
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