R documentation

of 'showProbPlot.Rd'

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showProbPlot	*Show distribution plots of cell proportions generated by* generateTrainAndTestBulkProbMatrix.

Description

Show distribution plots of cell proportions generated by the five different methods used by generateTrainAndTestE These frequencies will determine the proportion of different cell types used during the simulation of bulk RNA-Seq samples. There are 6 subsets of proportions (1 and 2 are generated by the same way) by different approaches that can be shown with three types of visualizations: boxplot, violinplot and linesplot. You also can represent the probabilities based on the number of different cell types present in samples setting type.plot = 'nMix'.

Usage

```
showProbPlot(object, type.data, set, type.plot = "boxplot")
```

Arguments

object	DigitalDLSorter object with prob.cell.types slot with plot slot.
type.data	Subset of data to show: train or test.
set	Integer determining which of the 6 different approaches used for generating the probability matrix show. Note that 1 and 2 follow the same distribution.
type.plot	Character determining which type of visualization show. It can be boxplot, violinplot, linesplot or nmix. See Description for more information.

Details

These plots are only for diagnostic purposes. This is the reason because they are generated without any parameter introduced by the user.

Value

ggplot object.

See Also

generateTrainAndTestBulkProbMatrix

Examples

```
lapply(1:6, function(x) {
  showProbPlot(DDLSChung,
               type.data = "train",
               set = x,
               type.plot = "boxplot")
})
```

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