docutest {testpackage} R Documentation

Collapse a (taxonomic) tree at a given rank, with options to exclude specific clades.

Description

Collapse a (taxonomic) tree at a given rank, with options to exclude specific clades.

Heans

docutest(tree, metadata, rankN, excludeType, excludeItem)

Arguments

tree A tree object

metadata A data.frame with 9 (+1 optional) columns. Data rows are tree leaves with (clade names at each rank).

rankN A character string corresponding to the rank at which to collapse the tree. Must match header name on metadata

excludeType Specify method for inputting clades to exclude from collapsing. Either 'list', 'col' or none.

excludeItem A vector of clade names if excludeType=='list'. The header name of a binary vector on metadata if excludeType=='col'.

Details

The data.frame metadata should be in the following format:

taxon_ID rank1 rank2 rank3 rank4 rank5 rank6 rank7 rank8
6014 Eukaryota Opisthokonta Metazoa Cnidaria Anthozoa Actiniaria Anthopleura Anthopleura Anthopleura Embryophyta Embryophyta Solanum Solanum Solanum Solanum Solanum Solanum Chacoense_(Chaco_potato)

Each row corresponds to a tip in tree. An optional column should be included if exclusionType 'col' is chosen. This additional column should contain a value of 1 if the tip should NOT be collapsed, 0 otherwise.

Author(s)

Evan Morien , Lauren Chong, Allison Tai, Cedric Wang, Mark Forteza

Examples

```
\label{lem:metadataCollapseTree} $$ metadata.CollapseTree(tree.object,metadata.data.frame, 'rank5', 'list', c("Anthozoa", "Embyophyta")) $$ metadataCollapseTree(tree.object,metadata.data.frame, 'rank5', 'col', 'excludeBin') $$
```