getKOprobes  
*obtain probe set IDs associated with a KO term*

**Description**

obtain probe set IDs associated with a KO term

**Usage**

```r
getKOprobes(str, useAcc=TRUE, plat="hgu95av2", na.action=na.omit)
```

**Arguments**

- `str`  
  string giving a KEGG orthology term
- `useAcc`  
  logical – use all accessible terms?
- `plat`  
  platform corresponding to a bioconductor annotation package, e.g., hgu95av2.db
- `na.action`  
  function for dealing with NA

**Details**

looks up the requested term and gives back the unique probe set ids on the platform

**Value**

character vector, typically processed by `na.omit`

**Author(s)**

Vince Carey <stvjc@channing.harvard.edu>

**Examples**

```r
getKOtags("insulin")
es = acc(KOgraph, "Endocrine System")
nm = names(es[[1]])
osp = lapply(nm, getKOprobes)
names(esp) = nm
sapply(esp, length)
```
indRender  
**indented textual rendering of nodes of a hierarchical graph**

**Description**

indented textual rendering of nodes of a hierarchical graph

**Usage**

```r
indRender(klike, from=nodes(klike)[1], indent="  ")
```

**Arguments**

- **klike**: a graph, with tree structure similar to `KOgraph`
- **from**: a node name from which the rendering should proceed to all leaves
- **indent**: token to use for indentation – will be replicated to depth of node to be rendered to its left

**Details**

based on keggorth read of KEGG orthology, periodic, as of bioc 2.1 not folded into the annotation build system, but will be ASAP

**Value**

NULL

**Author(s)**

Vince Carey <stvjc@channing.harvard.edu>

**Examples**

```r
data(KOgraph)
indRender(KOgraph, "Human Diseases")
```

---

keggDF2graph  
**create a graph from a specific data frame format for KEGG orthology**

**Description**

create a graph from a specific data frame format for KEGG orthology

**Usage**

```r
keggDF2graph(df, root="KO.June07root")
data(KOgraph)
```
Arguments

\begin{itemize}
  \item \texttt{df} \hspace{1cm} the data frame
  \item \texttt{root} \hspace{1cm} a name for root node
\end{itemize}

Details

the obvious directed graph structure from root to leaf nodes (pathway names) is instantiated for
the orthology, nodeData attribute tag is loaded with the numerical tag for the term in KEGG, and
nodeData attribute depth is loaded with depth from root

Value

a \texttt{graphNEL-class} instance

Note

This is only a support function. The graph is serialized in the package data directory.

Author(s)

Vince Carey \texttt{<stvjc@channing.harvard.edu>}

Examples

\begin{verbatim}
data(keggOrthDF) keggOrthDF[1:5,] data(KOgraph) nodes(KOgraph)[1:4] nodeData(KOgraph, "tag")[1:5] nodeData(KOgraph, "depth")[1:5]
\end{verbatim}
Index

*Topic models*
  getKOprobes, 1
  indRender, 2
  keggDF2graph, 2
  getKOprobes, 1
  getKOtags (getKOprobes), 1
  graphNEL-class, 3
  indRender, 2
  keggDF2graph, 2
  keggOrthDF (keggDF2graph), 2
  KOgraph, 2
  KOgraph (keggDF2graph), 2