

# Package ‘golmDB’

March 1, 2021

**Type** Package

**Title** Parse the Golm database

**Version** 0.1.0

**Description** Parse the Golm GC-MS database.

**Depends** methods,  
magrittr

**Imports** dplyr,  
stringr,  
crayon,  
cli,  
tibble,  
purrr

**License** GPL (>= 3)

**Encoding** UTF-8

**LazyData** true

**RoxygenNote** 7.1.0

**Suggests** testthat

**Collate** 'allClasses.R'  
'allGenerics.R'  
'cleanNames.R'  
'fillAccessionObject.R'  
'findIdentifier.R'  
'openGolmDB.R'  
'searchDB-method.R'  
'show-method.R'

**Roxygen** list(markdown = TRUE)

## R topics documented:

cleanNames . . . . .	2
fillAccessionObject . . . . .	2
findIdentifier . . . . .	3

GolmAccession-class . . . . .	3
GolmDB-class . . . . .	3
openGolmDB . . . . .	4
searchDB . . . . .	4
show,GolmAccession-method . . . . .	5

<b>Index</b>	<b>6</b>
--------------	----------

---

cleanNames	<i>Clean Accession Names</i>
------------	------------------------------

---

**Description**

Clean Accession Names

**Usage**

```
cleanNames(object)

## S4 method for signature 'GolmDB'
cleanNames(object)
```

**Arguments**

object            a GolmDB S4 class

**Value**

a GolmDB class

---

fillAccessionObject	<i>Create Accession Object</i>
---------------------	--------------------------------

---

**Description**

Create Accession Object

**Usage**

```
fillAccessionObject(x)
```

**Arguments**

x                    a list element from a split Golm database

**Value**

a GolmAccession object

---

findIdentifier	<i>Find Compound Identifier</i>
----------------	---------------------------------

---

**Description**

Find Compound Identifier

**Usage**

findIdentifier(object)

**Arguments**

object            a GolmAccession object

**Value**

a GolmAccession object

---

GolmAccession-class	<i>Golm Accession Class</i>
---------------------	-----------------------------

---

**Description**

Golm Accession Class

**Slots**

spectra

---

GolmDB-class	<i>Golm Database Class</i>
--------------	----------------------------

---

**Description**

Golm Database Class

---

openGolmDB	<i>Parse the Golm Database</i>
------------	--------------------------------

---

**Description**

Parse the Golm Database

**Usage**

```
openGolmDB(GolmInput)
```

**Arguments**

GolmInput	a valid file path for a Golm database file in MSP format
-----------	--

**Value**

a GolmDatabase object

---

searchDB	<i>Search Database</i>
----------	------------------------

---

**Description**

Search Database

**Usage**

```
searchDB(object, pattern)

## S4 method for signature 'GolmDB'
searchDB(object, pattern)
```

**Arguments**

object	a GolmDB S4 class
pattern	a character string to search for

**Value**

a GolmDB class containing on the accessions which matched the search pattern

---

`show, GolmAccession-method`  
*show-GolmAccession*

---

### **Description**

`show-GolmAccession`  
`show-GolmDB`

### **Usage**

```
## S4 method for signature 'GolmAccession'  
show(object)  
  
## S4 method for signature 'GolmDB'  
show(object)
```

### **Arguments**

`object`            a GolmDB object

# Index

`cleanNames`, [2](#)  
`cleanNames`, `GolmDB`-method (`cleanNames`), [2](#)  
  
`fillAccessionObject`, [2](#)  
`findIdentifier`, [3](#)  
  
`GolmAccession`-class, [3](#)  
`GolmDB`-class, [3](#)  
  
`openGolmDB`, [4](#)  
  
`searchDB`, [4](#)  
`searchDB`, `GolmDB`-method (`searchDB`), [4](#)  
`show`, `GolmAccession`-method, [5](#)  
`show`, `GolmDB`-method  
    (`show`, `GolmAccession`-method), [5](#)