
Bio2BEL HMDD Documentation

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Charles Tapley Hoyt

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Manager for Bio2BEL HMDD.

```
class bio2bel_hmdd.manager.Manager (*args, **kwargs)
    Bio2BEL Manager for HMDD.

    count_associations () → int
        Count the number of miRNA-disease associations in the database.

    count_diseases () → int
        Count the number of diseases in the database.

    count_mirnas () → int
        Count the number of miRNAs in the database.

    get_disease_by_name (name: str) → Optional[bio2bel_hmdd.models.Disease]
        Gets a Disease from the database if it exists

        Parameters name – A MeSH disease name

    get_mirna_by_name (name: str) → Optional[bio2bel_hmdd.models.MiRNA]
        Gets an miRNA from the database if it exists

        Parameters name – A mirBase name

    get_or_create_disease (name: str) → bio2bel_hmdd.models.Disease
        Get a Disease from the database or creates it if it does not exist

        Parameters name – A MeSH disease name

    get_or_create_mirna (name: str) → bio2bel_hmdd.models.MiRNA
        Gets an miRNA from the database or creates it if it does not exist

        Parameters name – A mirBase name

    is_populated () → bool
        Check if the database is already populated.

    list_associations () → List[bio2bel_hmdd.models.Association]
        List all associations.
```

populate (*url: Optional[str] = None*)

Populate the database.

summarize () → Mapping[str, int]

Summarize the database.

to_bel () → pybel.struct.graph.BELGraph

Build a BEL graph containing all of the miRNA-disease associations in the database.

```
class bio2bel_hmdd.models.Association (**kwargs)
```

This class represents the miRNA disease association table

```
add_to_bel_graph (graph)
```

Add this association to a BEL graph

Parameters `graph` (*pybel.BELGraph*) –

Return type `str`

```
description
```

This is a manually curated association

```
class bio2bel_hmdd.models.Disease (**kwargs)
```

This class represents the disease table

```
name
```

name from MeSH

```
class bio2bel_hmdd.models.MiRNA (**kwargs)
```

This class represents the miRNA table

```
name
```

name from mirBase

CHAPTER 3

Indices and tables

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