

Package: rtaxref (via r-universe)

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Type Package

Title An R client for TaxRef the French Taxonomical Database

Version 0.1.0

Description Provides an R client to the TaxRef API
<<https://taxref.mnhn.fr/taxref-web/api/doc>>, the French
Taxonomical Reference Database which indexes names of species
with unique identifiers as well as conservation statuses,
biological interactions and taxonomic relationships.

License GPL-3

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BugReports <https://github.com/Rekyt/rtaxref/issues>

Repository <https://rekyt.r-universe.dev>

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Contents

rt_biogeo_status	2
rt_external_db	3
rt_habitats	3

rt_interactions_find_type	4
rt_interactions_opgroup	5
rt_interactions_search	5
rt_interactions_type	6
rt_languages	7
rt_operational_groups	7
rt_sources_find_term	8
rt_sources_id	8
rt_sources_match	9
rt_source_uses	9
rt_status_find_type	10
rt_status_opgroup	11
rt_status_search	11
rt_status_type	13
rt_taxa_autocomplete	13
rt_taxa_children	15
rt_taxa_externalids	15
rt_taxa_factsheet	16
rt_taxa_from_externalids	16
rt_taxa_fuzzymatch	17
rt_taxa_id	17
rt_taxa_interactions	18
rt_taxa_media	18
rt_taxa_parent	19
rt_taxa_search	19
rt_taxa_sources	22
rt_taxa_status	23
rt_taxa_synonyms	23
rt_taxa_taxrefhistory	24
rt_taxa_vernacular	24
rt_taxo_ranks	25
rt_taxref_versions	25
rt_vernacular_groups	26

Index 27

rt_biogeo_status	<i>Retrieve biogeographic statuses used in TAXREF</i>
------------------	---

Description

If the function is used without arguments returns the list of biogeographic statuses used in TAXREF

Usage

```
rt_biogeo_status(biogeo_id = NULL)
```

Arguments

biogeo_id NULL or character(1) [default = NULL]
 A biogeographic status id used in TAXREF

Examples

```
## Not run: rt_biogeo_status(biogeo_id = "P")
```

rt_external_db *Retrieve external DBs referenced in TAXREF*

Description

If the function is used without arguments returns the list of external databases used in TAXREF.

Usage

```
rt_external_db(db_id = NULL)
```

Arguments

db_id NULL or character(1) [default = NULL]
 The id of an external db referenced in TAXREF

Examples

```
## Not run: rt_external_db(db_id = "worms")
```

rt_habitats *Retrieve habitats used in TAXREF*

Description

If the function is used without arguments returns the list of habitats used in TAXREF.

Usage

```
rt_habitats(habitat_id = NULL)
```

Arguments

habitat_id NULL or integer(1) [default = NULL]
 The id of a habitat referenced in TAXREF

Habitats

- 1 = Marine
- 2 = Freshwater
- 3 = Terrestrial
- 4 = Marine and freshwater
- 5 = Marine and Terrestrial
- 6 = Brackish water
- 7 = Continental (terrestrial and/or freshwater)
- 8 = Continental (terrestrial and freshwater)

Examples

```
## Not run: rt_habitats(habitat_id = 8)
```

```
rt_interactions_find_type
```

Retrieve the status of all Taxa according to a Status Type

Description

Retrieve the status of all Taxa according to a Status Type

Usage

```
rt_interactions_find_type(interaction_id = NULL, page = 1, size = 2000)
```

Arguments

interaction_id	character(1) [required]
	The identifier of status (see rt_interactions_type() for the list of status types)
page	integer(1) [default = 1]
	The page number returned
size	integer(1) [default = 2000]
	The number of lines returned per page (maximum = 2000)

See Also

the list of status types [rt_interactions_type\(\)](#)

Examples

```
## Not run: rt_interactions_find_type(interaction_id = "GALLES")
```

`rt_interactions_opgroup`*Retrieve the interactions of all Taxa in an Operational Group*

Description

Retrieve the interactions of all Taxa in an Operational Group

Usage

```
rt_interactions_opgroup(opgroup_id = NULL, page = 1, size = 2000)
```

Arguments

<code>opgroup_id</code>	<code>integer(1) [required]</code> identifier of the operational group (see the list of operational groups rt_operational_groups())
<code>page</code>	<code>integer(1) [default = 1]</code> The page number returned
<code>size</code>	<code>integer(1) [default = 2000]</code> The number of lines returned per page (maximum = 2000)

See Also

the list of operational groups [rt_operational_groups\(\)](#)

Examples

```
## Not run: rt_interactions_opgroup(opgroup_id = 706)
```

`rt_interactions_search`*Search Interactions based on a list of criteria*

Description

Search Interactions based on a list of criteria

Usage

```
rt_interactions_search(  
  id = NULL,  
  interaction_id = NULL,  
  opgroup_id = NULL,  
  page = 1,  
  size = 2000  
)
```

Arguments

id	NULL or integer(1+) [default = NULL] One or more integer giving the id(s) of taxa in TAXREF (also called cdNom)
interaction_id	NULL or character(1) [default = NULL] A character identifying the type of interactions
opgroup_id	NULL or numeric(1) [default = NULL] the id of an operational group referenced in TAXREF
page	integer(1) [default = 1] The page number returned
size	integer(1) [default = 2000] The number of lines returned per page (maximum = 2000)

See Also

the list of interaction type [rt_interactions_type\(\)](#) and the list of operational groups [rt_operational_groups\(\)](#)

Examples

```
## Not run:
# Interactors with 'Ophrys apifera' (id = 110335)
rt_interactions_search(id = 110335)

## End(Not run)
```

rt_interactions_type *Retrieve Interactions Types used in TAXREF*

Description

If used without argument returns the list of all interactions used in TAXREF

Usage

```
rt_interactions_type(interaction_id = NULL)
```

Arguments

interaction_id	NULL or character(1) [default = NULL] A character identifying the type of interactions
----------------	---

Examples

```
## Not run: rt_interactions_type(interaction_id = "PREDATEUR")
```

rt_languages	<i>Retrieve the languages used in TAXREF</i>
--------------	--

Description

If used without argument returns the list of languages used in TAXREF otherwise the specific

Usage

```
rt_languages(languages_id = NULL)
```

Arguments

```
languages_id    NULL or character(1) [default = NULL]  
                three-letter lowercase code that is the id of a language referenced in TAXREF
```

Examples

```
## Not run:  
# Retrieve the TAXREF definition in the Wayana Language  
rt_languages(languages_id = "way")  
  
## End(Not run)
```

rt_operational_groups	<i>Retrieve operational groups used in TAXREF</i>
-----------------------	---

Description

Operational Groups are names of groups either taxonomic or vernacular used across TAXREF in French. If used without argument returns the list of all operational groups used in TAXREF.

Usage

```
rt_operational_groups(opgroup_id = NULL)
```

Arguments

```
opgroup_id     NULL or numeric(1) [default = NULL]  
                the id of an operational group referenced in TAXREF
```

Examples

```
## Not run: rt_operational_groups(opgroup_id = 143)
```

rt_sources_find_term *Search a source from a term*

Description

Search a source from a term

Usage

```
rt_sources_find_term(term = NULL)
```

Arguments

term	character(1) [required] A term contained in the source
------	--

Examples

```
## Not run:  
rt_sources_find_term(term = "Ophrys")  
  
## End(Not run)
```

rt_sources_id *Retrieve a source of taxonomic information using its id*

Description

Retrieve a source of taxonomic information using its id

Usage

```
rt_sources_id(source_id, bibtex = FALSE)
```

Arguments

source_id	integer(1) [required] an integer giving the id of the source in TAXREF
bibtex	logical(1) [default = FALSE] should citation be returned as BibTeX?

Examples

```
## Not run:
rt_sources_id(source_id = 160688, bibtex = FALSE)
rt_sources_id(source_id = 160688, bibtex = TRUE)

## End(Not run)
```

rt_sources_match	<i>Search a source from a citation by fuzzy matching</i>
------------------	--

Description

Search a source from a citation by fuzzy matching

Usage

```
rt_sources_match(citation = NULL)
```

Arguments

citation	character(1) [required] A string that could partially match the citation
----------	--

Examples

```
## Not run:
rt_sources_match(
  paste0("Chapman, T. A. 1909. Callophrys avis a new butterfly on ",
        "southern France. The Entomologist's record and journal of ",
        "variation, 21: 130-131.")
)

## End(Not run)
```

rt_source_uses	<i>Retrieve the list of source uses in TAXREF</i>
----------------	---

Description

TAXREF references many publications across its documentation. The different sources are used for different reasons. This function returns the list of usages for a source when no arguments are provided, otherwise returns the specific type of use.

Usage

```
rt_source_uses(usage_id = NULL)
```

Arguments

usage_id NULL or numeric(1) [default = NULL]
 the id of a source use in TAXREF

Examples

```
## Not run: rt_source_uses(usage_id = 276)
```

rt_status_find_type *Retrieve the status of all Taxa according to a Status Type*

Description

Retrieve the status of all Taxa according to a Status Type

Usage

```
rt_status_find_type(status_id = NULL, page = 1, size = 2000)
```

Arguments

status_id character(1) [**required**]
 The identifier of status (see [rt_status_type\(\)](#) for the list of status types)

page integer(1) [default = 1]
 The page number returned

size integer(1) [default = 2000]
 The number of lines returned per page (maximum = 2000)

See Also

the list of status types [rt_status_type\(\)](#)

Examples

```
## Not run:
# Find all taxa concerned by Habitat Directive referenced in TAXREF
rt_status_find_type("DH")

## End(Not run)
```

rt_status_opgroup *Retrieve the status of all Taxa in an Operational Group*

Description

Retrieve the status of all Taxa in an Operational Group

Usage

```
rt_status_opgroup(opgroup_id, page = 1, size = 2000)
```

Arguments

opgroup_id	integer(1) [required] identifier of the operational group (see the list of operational groups rt_operational_groups())
page	integer(1) [default = 1] The page number returned
size	integer(1) [default = 2000] The number of lines returned per page (maximum = 2000)

See Also

the list of operational groups [rt_operational_groups\(\)](#)

Examples

```
## Not run:  
  rt_status_opgroup(opgroup_id = 706)  
  
## End(Not run)
```

rt_status_search *Search statuses based on a list of criteria*

Description

Search statuses based on a list of criteria

Usage

```
rt_status_search(
  id = NULL,
  ogroup_id = NULL,
  location_id = NULL,
  latitude = NULL,
  longitude = NULL,
  page = 1,
  size = 2000,
  detail = FALSE
)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
ogroup_id	integer(1) [required] identifier of the operational group (see the list of operational groups rt_operational_groups())
location_id	NULL or character(1) [default = NULL] a string identifying a location
latitude	NULL or numeric(1) [default = NULL] a latitude value
longitude	NULL or numeric(1) [default = NULL] a longitude value
page	integer(1) [default = 1] The page number returned
size	integer(1) [default = 2000] The number of lines returned per page (maximum = 2000)
detail	logical(1) [default = FALSE] Should the table be a long table detailing all the statuses or a compact table?

See Also

list of operational groups [rt_operational_groups\(\)](#)

Examples

```
## Not run:
rt_status_search(id = 443800, detail = FALSE)
rt_status_search(id = 443800, detail = TRUE)

## End(Not run)
```

rt_status_type	<i>Retrieve Status Types Used in TAXREF</i>
----------------	---

Description

If the function is provided without arguments returns the entire list of status types used in TAXREF.

Usage

```
rt_status_type(status_id = NULL)
```

Arguments

status_id	NULL or character(1) [default = NULL] A character identifying the type of status
-----------	---

rt_taxa_autocomplete	<i>Retrieve Taxon ID from partially matching its Name</i>
----------------------	---

Description

Retrieve Taxon ID from partially matching its Name

Usage

```
rt_taxa_autocomplete(  
  term = NULL,  
  territories = NULL,  
  rank = NULL,  
  domain = NULL,  
  page = 1,  
  size = 200  
)
```

Arguments

term	character(1) [required] the beginning of the scientific name of the searched taxa
territories	NULL or character(1+) [default = NULL] One or more territories where species is present: <ul style="list-style-type: none"> • "fr" = Mainland France • "gf" = French Guiana • "gua" = Guadeloupe • "mar" = Martinique

	<ul style="list-style-type: none"> • "sm" = Saint Martin • "sb" = Saint Barthélemy • "spm" = Saint Pierre and Miquelon • "epa" = Scattered Islands in the Indian Ocean • "may" = Mayotte • "reu" = Réunion • "sa" = French Southern and Antarctic Lands • "ta" = Adélie Land • "nc" = New Caledonia • "wf" = Wallis and Futuna • "pf" = French Polynesia • "cli" = Clipperton Island
rank	<p>NULL or character(1+) [default = NULL] One of more rank of the searched taxa (see rt_taxo_ranks() for the list of all ranks available):</p> <ul style="list-style-type: none"> • Dumm= Domain • KD= Kingdom • PH= Phylum • CL= Class • OR= Order • FM= Family • SBFM= Subfamily • TR= Tribe • GN= Genus • AGES= Aggregate • ES= Species • SSES= Subspecies • NAT= Natio • VAR= Variety • SVAR= Sub-variety • FO= Form • SSFO= Sub-form • RACE= Race • CAR= Cultivar • AB= Abberatio
domain	<p>NULL or character(1) [default = NULL] The domain where the species is found:</p> <ul style="list-style-type: none"> • "marin" = Marine • "continental" = Continental
page	<p>integer(1) [default = 1] The page number returned</p>
size	<p>integer(1) [default = 200] The number of lines returned per page (maximum = 200)</p>

See Also

the list of taxonomic ranks available through [rt_taxo_ranks\(\)](#)

Examples

```
## Not run:
rt_taxa_autocomplete(term = "Bradypus")

## End(Not run)
```

rt_taxa_children	<i>Retrieve a taxon children</i>
------------------	----------------------------------

Description

Retrieve a taxon children

Usage

```
rt_taxa_children(id)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

Examples

```
## Not run: rt_taxa_children(id = 442585)
```

rt_taxa_externalids	<i>Retrieve IDs of the taxon in external databases</i>
---------------------	--

Description

Retrieve IDs of the taxon in external databases

Usage

```
rt_taxa_externalids(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

Examples

```
## Not run: rt_taxa_externalids(id = 443800)
```

```
rt_taxa_factsheet      Get factsheet for taxa
```

Description

For some taxa, a factsheet has been written. This text, often in French, describes the general ecology and some diagnosis of the submitted taxon.

Usage

```
rt_taxa_factsheet(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

Details

Beware, many taxa have no corresponding factsheet.

Examples

```
## Not run: rt_taxa_factsheet(4540)
```

```
rt_taxa_from_externalids  
Retrieve Taxon using the ids from external databases
```

Description

Retrieve Taxon using the ids from external databases

Usage

```
rt_taxa_from_externalids(external_db = NULL, external_id = NULL)
```


Arguments

external_db	character(1) [required] The name of an external database see rt_external_db() for the list of external database names
external_id	character(1) [required] The identifier of the taxon in the specified external database

See Also

[rt_external_db\(\)](#) for the list of external databases linked to TAXREF; [rt_taxa_externalids\(\)](#) to get the external ids associated with a taxon in TAXREF

Examples

```
## Not run: rt_taxa_from_externalids("TROPICOS", 26600197)
```

rt_taxa_fuzzymatch *Find taxa by fuzzy matching their scientific Name*

Description

Find taxa by fuzzy matching their scientific Name

Usage

```
rt_taxa_fuzzymatch(sciname = NULL)
```

Arguments

sciname	character(1) [required] a string giving the scientific name of the taxon with or without the author name
---------	--

rt_taxa_id *Retrieve a taxon information using its id*

Description

Retrieve a taxon information using its id

Usage

```
rt_taxa_id(id = NULL)
```

Arguments

id integer(1) [**required**]
 an integer giving the id of the taxon in TAXREF (also called cdNom)

Examples

```
## Not run:
rt_taxa_id(id = 443800)
rt_taxa_id(id = 110335)

## End(Not run)
```

rt_taxa_interactions *Retrieve Interactions of taxon with other taxa*

Description

Retrieve Interactions of taxon with other taxa

Usage

```
rt_taxa_interactions(id = NULL)
```

Arguments

id integer(1) [**required**]
 an integer giving the id of the taxon in TAXREF (also called cdNom)

Examples

```
## Not run: rt_taxa_interactions(id = 110335)
```

rt_taxa_media *Retrieve Media (photos & others) Associated with a Taxon*

Description

Retrieve Media (photos & others) Associated with a Taxon

Usage

```
rt_taxa_media(id = NULL)
```

Arguments

id integer(1) [**required**]
 an integer giving the id of the taxon in TAXREF (also called cdNom)

Examples

```
## Not run: rt_taxa_media(id = 443800)
```

rt_taxa_parent	<i>Retrieve classification above the taxon</i>
----------------	--

Description

Retrieve classification above the taxon

Usage

```
rt_taxa_parent(id = NULL)
```

Arguments

id integer(1) [**required**]
 an integer giving the id of the taxon in TAXREF (also called cdNom)

Examples

```
## Not run: rt_taxa_parent(id = 443800)
```

rt_taxa_search	<i>Search for a taxon information</i>
----------------	---------------------------------------

Description

Search for a taxon information

Usage

```

rt_taxa_search(
  id = NULL,
  sciname = NULL,
  fr_name = NULL,
  en_name = NULL,
  rank = NULL,
  territories = NULL,
  domain = NULL,
  habitats = NULL,
  vernacular = NULL,
  version = NULL,
  page = 1,
  size = 5000
)

```

Arguments

id	NULL or integer(1+) [default = NULL] One or more integer giving the id(s) of taxa in TAXREF (also called cdNom)
sciname	NULL or character(1+) [default = NULL] One or more scientific name of searched taxa
fr_name	NULL or character(1+) [default = NULL] One or more common name(s) in French of searched taxa
en_name	NULL or character(1+) [default = NULL] One or more common name(s) in English of searched taxa
rank	NULL or character(1+) [default = NULL] One of more rank of the searched taxa (see rt_taxo_ranks() for the list of all ranks available): <ul style="list-style-type: none"> • Dumm= Domain • KD= Kingdom • PH= Phylum • CL= Class • OR= Order • FM= Family • SBFM= Subfamily • TR= Tribe • GN= Genus • AGES= Aggregate • ES= Species • SSES= Subspecies • NAT= Natio • VAR= Variety • SVAR= Sub-variety

	<ul style="list-style-type: none"> • FO= Form • SSFO= Sub-form • RACE= Race • CAR= Cultivar • AB= Abberatio
territories	<p>NULL or character(1+) [default = NULL] One or more territories where species is present:</p> <ul style="list-style-type: none"> • "fr" = Mainland France • "gf" = French Guiana • "gua" = Guadeloupe • "mar" = Martinique • "sm" = Saint Martin • "sb" = Saint Barthélemy • "spm" = Saint Pierre and Miquelon • "epa" = Scattered Islands in the Indian Ocean • "may" = Mayotte • "reu" = Réunion • "sa" = French Southern and Antarctic Lands • "ta" = Adélie Land • "nc" = New Caledonia • "wf" = Wallis and Futuna • "pf" = French Polynesia • "cli" = Clipperton Island
domain	<p>NULL or character(1) [default = NULL] The domain where the species is found:</p> <ul style="list-style-type: none"> • "marin" = Marine • "continental" = Continental
habitats	<p>NULL or integer(1+) [default = NULL] One or more habitats where the species is found (see rt_habitats() for a list of all habitats):</p> <ul style="list-style-type: none"> • 1 = Marine • 2 = Freshwater • 3 = Terrestrial • 4 = Marine and freshwater • 5 = Marine and Terrestrial • 6 = Brackish water • 7 = Continental (terrestrial and/or freshwater) • 8 = Continental (terrestrial and freshwater)
vernacular	<p>NULL or character(1+) [default = NULL] Name of a vernacular group (see the list using rt_vernacular_groups())</p>

version	NULL or character(1) [default = NULL] A string indicating which version of TAXREF should be queried. Should be of the form "2.0" up to "15.0". You can check the available TAXREF versions with rt_taxref_versions() . If NULL uses the latest version of TAXREF available.
page	integer(1) [default = 1] The page number returned
size	integer(1) [default = 5000] The number of lines returned per page (maximum = 5000)

See Also

the list of available taxonomic ranks [rt_taxo_ranks\(\)](#), the list of available habitats [rt_habitats\(\)](#), the list of vernacular groups [rt_taxref_versions\(\)](#), and the list of TAXREF versions [rt_taxref_versions\(\)](#).

Examples

```
## Not run: rt_taxa_search(sciname = "Bradypus")
```

rt_taxa_sources	<i>Retrieve Sources Associated with a Taxon</i>
-----------------	---

Description

Retrieve Sources Associated with a Taxon

Usage

```
rt_taxa_sources(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

See Also

[rt_source_uses\(\)](#) for types of source use

Examples

```
## Not run: rt_taxa_sources(id = 443800)
```

rt_taxa_status *Retrieve Taxon Conservation Status*

Description

Retrieve Taxon Conservation Status

Usage

```
rt_taxa_status(id = NULL, detail = FALSE)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
detail	logical(1) [default = FALSE] Should the table be a long table detailing all the statuses or a compact table?

Examples

```
## Not run:  
rt_taxa_status(id = 443800, detail = FALSE)  
rt_taxa_status(id = 443800, detail = TRUE)  
  
## End(Not run)
```

rt_taxa_synonyms *Retrieve Synonyms associated with a Taxon*

Description

Retrieve Synonyms associated with a Taxon

Usage

```
rt_taxa_synonyms(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

Examples

```
## Not run: rt_taxa_synonyms(id = 107003)
```

rt_taxa_taxrefhistory *Retrieve history of a taxon through TAXREF versions*

Description

Retrieve history of a taxon through TAXREF versions

Usage

```
rt_taxa_taxrefhistory(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

Examples

```
## Not run: rt_taxa_taxrefhistory(id = 443800)
```

rt_taxa_vernacular *Retrieve VernacularNames associated with a Taxon*

Description

Retrieve VernacularNames associated with a Taxon

Usage

```
rt_taxa_vernacular(id = NULL)
```

Arguments

id	integer(1) [required] an integer giving the id of the taxon in TAXREF (also called cdNom)
----	---

See Also

[rt_languages\(\)](#) for a list of languages referenced in TAXREF

Examples

```
## Not run: rt_taxa_vernacular(id = 443800)
```

rt_taxo_ranks	<i>Retrieve taxonomic ranks in TAXREF</i>
---------------	---

Description

If the function is used without arguments returns the entire list of taxonomic ranks used in TAXREF.

Usage

```
rt_taxo_ranks(taxo_id = NULL)
```

Arguments

taxo_id	NULL or character(1) [default = NULL] the id of a taxonomic rank in TAXREF.
---------	--

Examples

```
## Not run: rt_taxo_ranks(taxo_id = "VAR")
```

rt_taxref_versions	<i>Retrieve the list of existing TAXREF versions</i>
--------------------	--

Description

Retrieve the list of existing TAXREF versions

Usage

```
rt_taxref_versions(version_id = NULL)
```

Arguments

version_id	NULL or integer(1) [default = NULL] the id of a TAXREF version
------------	---

Examples

```
## Not run: rt_taxref_versions(version_id = 12)
```

rt_vernacular_groups *Retrieve the list of vernacular groups in TAXREF*

Description

This function takes no argument.

Usage

```
rt_vernacular_groups()
```

Index

rt_biogeo_status, 2
rt_external_db, 3
rt_external_db(), 17
rt_habitats, 3
rt_habitats(), 21, 22
rt_interactions_find_type, 4
rt_interactions_opgroup, 5
rt_interactions_search, 5
rt_interactions_type, 6
rt_interactions_type(), 4, 6
rt_languages, 7
rt_languages(), 24
rt_operational_groups, 7
rt_operational_groups(), 5, 6, 11, 12
rt_source_uses, 9
rt_source_uses(), 22
rt_sources_find_term, 8
rt_sources_id, 8
rt_sources_match, 9
rt_status_find_type, 10
rt_status_opgroup, 11
rt_status_search, 11
rt_status_type, 13
rt_status_type(), 10
rt_taxa_autocomplete, 13
rt_taxa_children, 15
rt_taxa_externalids, 15
rt_taxa_externalids(), 17
rt_taxa_factsheet, 16
rt_taxa_from_externalids, 16
rt_taxa_fuzzymatch, 17
rt_taxa_id, 17
rt_taxa_interactions, 18
rt_taxa_media, 18
rt_taxa_parent, 19
rt_taxa_search, 19
rt_taxa_sources, 22
rt_taxa_status, 23
rt_taxa_synonyms, 23
rt_taxa_taxrefhistory, 24
rt_taxa_vernacular, 24
rt_taxo_ranks, 25
rt_taxo_ranks(), 14, 15, 20, 22
rt_taxref_versions, 25
rt_taxref_versions(), 22
rt_vernacular_groups, 26
rt_vernacular_groups(), 21