

Package: AAbAtlas (via r-universe)

October 12, 2026

Type Package

Title Access the Antibodyome Atlas of Autoantibody Profiling Datasets

Version 0.1.0

Description Client for the antibodyome-atlas, a curated catalog of autoantibody profiling datasets and papers (protein/antigen microarrays and related platforms) drawn from public repositories such as GEO and ArrayExpress. Metadata is fetched live from the atlas's GitHub-hosted JSON manifest, so results always reflect the latest curated data (or a pinned release, for reproducibility). Provides functions to list and filter datasets, resolve citations and related records, and download the underlying data files.

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Encoding UTF-8

RoxygenNote 7.3.2

Imports htr2, jsonlite, tibble

Suggests testthat (>= 3.0.0)

Config/testthat/edition 3

URL <https://github.com/ahcm088/antibodyome-atlas>

BugReports <https://github.com/ahcm088/antibodyome-atlas/issues>

Config/pak/sysreqs libssl-dev

Repository <https://ahcm088.r-universe.dev>

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RemoteUrl <https://github.com/ahcm088/antibodyome-atlas>

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RemoteSubdir r-package

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aab_citation	<i>Get the citation for a dataset, ready to paste into a manuscript</i>
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Description

Get the citation for a dataset, ready to paste into a manuscript

Usage

```
aab_citation(atlas_id, ref = "main")
```

Arguments

atlas_id	An atlas id, e.g. "AAB-000004".
ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.

Value

A one-row [tibble::tibble()] with columns 'atlas_id', 'dataset_link', 'citation', 'doi', 'pubmed_link', 'publisher_link'. Any publication field is 'NA' if the record has no associated publication.

Examples

```
## Not run:
aab_citation("AAB-000004")

## End(Not run)
```

aab_dataset	<i>Get a single dataset record, with its publication and platforms resolved</i>
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Description

Get a single dataset record, with its publication and platforms resolved

Usage

```
aab_dataset(atlas_id, ref = "main")
```

Arguments

atlas_id	An atlas id, e.g. "AAB-000004".
ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.

Value

A list with the dataset's fields plus two resolved fields: 'publication' (a one-row tibble, or 'NULL' if none) and 'platforms_detail' (a tibble joining 'platforms[].platform_id' from the dataset onto 'aab_platforms()', keeping 'n_proteins_reported').

Examples

```
## Not run:  
aab_dataset("AAB-000004")  
  
## End(Not run)
```

aab_datasets	<i>List all datasets/papers in the atlas</i>
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Description

List all datasets/papers in the atlas

Usage

```
aab_datasets(ref = "main")
```

Arguments

ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.
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Value

A [tibble::tibble()], one row per record, with columns matching ‘schema/dataset.schema.json’ (‘atlas_id’, ‘record_type’, ‘title’, ‘organism’, ‘conditions’, ‘total_sample_n’, ‘platforms’, ‘dataset_link’, ‘curated_availability’, etc.). List-valued fields come back as list-columns.

Examples

```
## Not run:
ds <- aab_datasets()
ds[ds$record_type == "DATASET", c("atlas_id", "title")]

## End(Not run)
```

aab_download	<i>Download a dataset's data file</i>
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Description

Downloads whatever is at the record's ‘dataset_link’. For records with ‘record_type == "DATASET"’ this is usually a repository landing page (e.g. a GEO accession page) rather than a direct file: check ‘curated_availability’ first, and note that some repositories require navigating from that page to the actual supplementary files by hand.

Usage

```
aab_download(atlas_id, destdir = tempdir(), destfile = NULL, ref = "main")
```

Arguments

atlas_id	An atlas id, e.g. “AAB-000004”.
destdir	Directory to save the file into. Defaults to a temp dir.
destfile	File name to save as. Defaults to the last path segment of ‘dataset_link’.
ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to “main” (the latest curated data). Pin to a release tag (e.g. “v1.0.0”) for reproducible results in a publication.

Value

The local file path, invisibly.

Examples

```
## Not run:
aab_download("AAB-000004")

## End(Not run)
```

aab_link_status	<i>List the link-reachability check history</i>
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Description

List the link-reachability check history

Usage

```
aab_link_status(ref = "main")
```

Arguments

ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.
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Value

A [tibble::tibble()] with one row per automated check, appended over time by the atlas's scheduled link checker — see 'checked_at'/'reachable' to see whether a given dataset's link has gone stale.

aab_platforms	<i>List all assay platforms referenced by atlas datasets</i>
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Description

List all assay platforms referenced by atlas datasets

Usage

```
aab_platforms(ref = "main")
```

Arguments

ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.
-----	--

Value

A [tibble::tibble()] with columns 'platform_id', 'name', 'technology'. Per-study protein/feature counts live on the dataset record ('aab_datasets()\$platforms'), not here — see 'schema/README.md' in the atlas repo for why.

aab_publications	<i>List all publications referenced by atlas datasets</i>
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Description

List all publications referenced by atlas datasets

Usage

```
aab_publications(ref = "main")
```

Arguments

ref	Git ref (branch, tag, or commit SHA) to read from. Defaults to "main" (the latest curated data). Pin to a release tag (e.g. "v1.0.0") for reproducible results in a publication.
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Value

A [tibble::tibble()] with columns 'publication_id', 'citation', 'doi', 'pubmed_link', 'publisher_link'.

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