

# Package ‘DNAZooData’

July 31, 2025

**Title** DNA Zoo data package

**Version** 1.8.0

**Date** 2023-02-09

**Description** DNAZooData is a data package giving programmatic access to genome assemblies and Hi-C contact matrices uniformly processed by the [DNA Zoo Consortium](https://www.dnazoo.org/). The matrices are available in the multi-resolution `.hic` format. A URL to corrected genome assemblies in `.fastq` format is also provided to the end-user.

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**URL** <https://github.com/js2264/DNAZooData>

**BugReports** <https://github.com/js2264/DNAZooData/issues>

**Depends** R (>= 4.2), HiCExperiment

**Imports** BiocFileCache, S4Vectors, rjson, utils, tools

**Suggests** dplyr, testthat, methods, BiocStyle, knitr, rmarkdown

**biocViews** ExperimentData, SequencingData

**Encoding** UTF-8

**VignetteBuilder** knitr

**LazyData** false

**Roxygen** list(markdown = TRUE)

**RoxygenNote** 7.2.3

**git\_url** https://git.bioconductor.org/packages/DNAZooData

**git\_branch** RELEASE\_3\_21

**git\_last\_commit** 8cb7246

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Contents

|                           |          |
|---------------------------|----------|
| DNAZooData . . . . .      | 2        |
| DNAZooDataCache . . . . . | 2        |
| <b>Index</b>              | <b>4</b> |

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|            |                   |
|------------|-------------------|
| DNAZooData | <i>DNAZooData</i> |
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Description

Fetches files from the DNAZoo data portal and caches them using the BiocFileCache system.

Arguments

species            Any species processed by the DNA Zoo (check <https://www.dnazoo.org/assemblies>)  
for a browser-based explorer.

Value

DNAZooData() returns a HicFile object, which can then be imported in memory using `HicExperiment::import()`. Metadata also points to a URL to directly fetch the genome assembly corrected by the DNA Zoo consortium.

Examples

```
#####  
## Importing DNAZoo `.hic` files ##  
#####  
  
head(DNAZooData())  
hf <- DNAZooData(species = 'Anolis_carolinensis')  
hf
```

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|                 |                                                                  |
|-----------------|------------------------------------------------------------------|
| DNAZooDataCache | <i>Manage cache / download files from the DNAZoo data portal</i> |
|-----------------|------------------------------------------------------------------|

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Description

Managing DNAZoo data downloads via the integrated BiocFileCache system.

Usage

```
DNAZooDataCache(...)
```

**Arguments**

... Arguments passed to internal `.setDNAZooDataCache` function

**Value**

BiocFileCache object

**Examples**

```
bfc <- DNAZooDataCache()  
bfc  
BiocFileCache::bfcinfo(bfc)
```

# Index

DNAZooData, [2](#)

DNAZooDataCache, [2](#)