PLAZI

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Mobilise Action
Mobilising Data, Policies and Experts in Scientific Collections

TreatmentBank

Biodiversity Literature Repository

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SWISS INSTITUTE OF BIOINFORMATICS LITERATURE SERVICES

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ARCADIA

TREATMENTBANK STATISTICS

How to query TB and analyze or reuse your extracted data

Julia Giora
Jonas Castro
Donat Agosti

https://plazi.org/

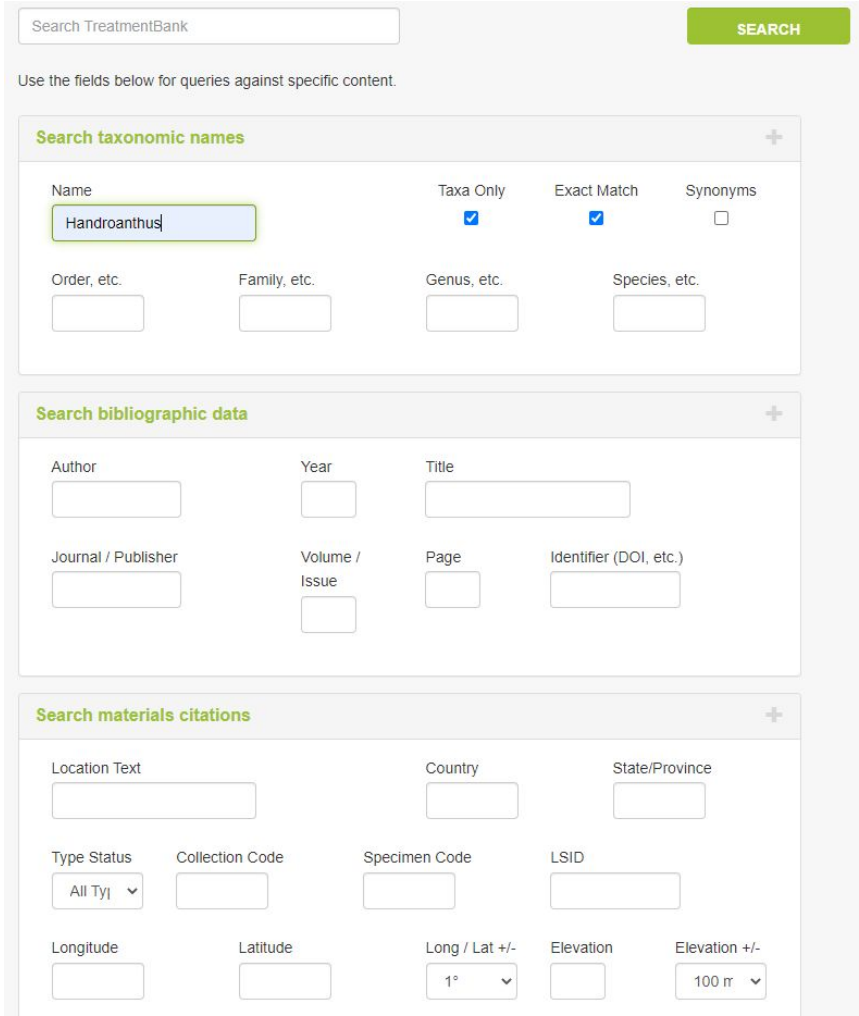
➤ TreatmentBank

- Extended search

- Taxonomic names
- Bibliographic data
- Materials citations

Fulltext Search
The TreatmentBank can be searched using a fulltext search.

Extended Search
The extended search allows more precise searches related to taxonomic names, bibliographic records or observation records.



➤ TreatmentBank

- List of treatments
- List of articles and pages
- Charts for specimens

  - treatments/status
  - articles/author
  - treatments/author
  - treatments/article

Handroanthus, Taxa Only, Exact Match: 11 Treatments

[link]

Handroanthus serratifolius		Molino, Jean-François, Sabatier, Daniel, Grenand, Pierre, Engel, Julien, Frame, Dawn, Delprete, Piero G., Fleury, Marie, Odonne, Guillaume, Davy, Damien, Lucas, Eve J. & Martin, Claire A., 2022, An annotated checklist of the tree species of French Guiana, including vernacular nomenclature, Adansonia (3) 44 (26), pp. 345-903 : 396	396
Handroanthus obscurus		Molino, Jean-François, Sabatier, Daniel, Grenand, Pierre, Engel, Julien, Frame, Dawn, Delprete, Piero G., Fleury, Marie, Odonne, Guillaume, Davy, Damien, Lucas, Eve J. & Martin, Claire A., 2022, An annotated checklist of the tree species of French Guiana, including vernacular nomenclature, Adansonia (3) 44 (26), pp. 345-903 : 395-396	395-396
Handroanthus chrysotrichus		Demite, P. R., Flechtmann, C. H. W. & Feres, R. J. F., 2016, Tetranychidae (Acari) in forest fragments in the State of S°o Paulo, Brazil, Acarologia 56 (4), pp. 435-449 : 441	441
Handroanthus chrysotrichus		Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Livia G. & Pires Lima, Laura C., 2022, Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae, Phytotaxa 570 (2), pp. 165-192 : 180	180
Handroanthus impetiginosus		Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G. & Pires Lima, Laura C., 2022, Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae, Phytotaxa 570 (2), pp. 165-192 : 180	180
Handroanthus albus		Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G. & Pires Lima, Laura C., 2022, Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae, Phytotaxa 570 (2), pp. 165-192 : 180	180
Handroanthus abayoy	sp. nov.	Villarroel, Daniel, Parada, G. Alexander, Martinez-Ugarteche, Maira T. & Klitgaard, Bente B., 2022, Handroanthus abayoy, a new species of Bignoniaceae endemic from Bolivia, Phytotaxa 547 (1), pp. 97-104 : 98-103	98-103

TreatmentBank

tb.plazi.org/GgServer/summary/D51BB22BFF9BFF9CF12F8517FE69AE2F

UUID

- Publication page

  - UUID
  - Metadata
  - Document provider
  - Charts
  - Download formats

Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G. & Pires Lima, Laura C., 2022, Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae

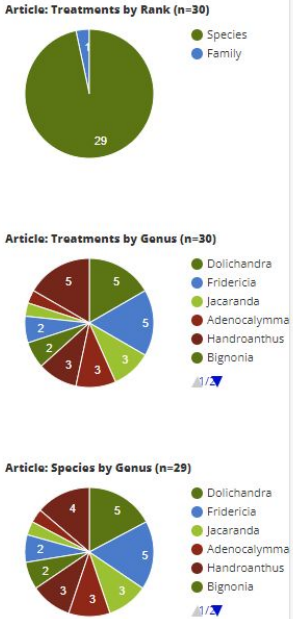
Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G. & Pires Lima, Laura C., 2022, Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae, Phytotaxa 570 (2), pp. 165-192

publication ID	
link to original document	http://dx.doi.org/10.11646/phytotaxa.570.2.4
document provided by	Plazi (2022-10-27 04:52:12, last updated by ExternalLinkService 2022-10-27 19:02:57)

Treatments (30)

Copyright notice

Specimens



Downloads

Darwin Core Archive

➤ TreatmentBank

- Publication page

  - List of treatments and pages

Treatments (30)

Bignoniaceae	key		169-170
Adenocalymma marginatum			170
Adenocalymma bracteatum			170
Adenocalymma paulistarum			171
Amphilophium crucigerum			171
Amphilophium paniculatum			171
Bignonia binata			172-173
Dolichandra hispida			175-176
Bignonia sciuripabulum			175
Dolichandra dentata			175
Dolichandra cynanchoides			175
Dolichandra quadrivalvis			177
Fridericia florida			177-179
Fridericia chica			177
Dolichandra unguis-cati			177
Fridericia triplinervia			179
Fridericia mutabilis			179
Fridericia samydoides			179

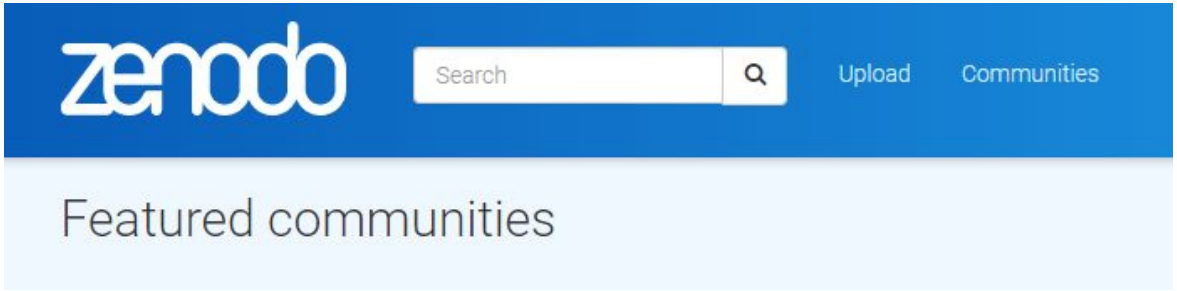
➤ TreatmentBank

- Treatment page

  - Publication DOI
  - Treatment DOI (from Zenodo)
  - Taxonomy
  - Download formats

➤ Zenodo

- Repository for open science services
- Hosted by CERN
- Several communities



Zenodo

Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae

Hentz Júnior, Elmar J.; Lohmann, Lúcia G.; Caxambu, Marcelo G.; Temponi, Lívia G.; Pires Lima, Laura C.

Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G., Pires Lima, Laura C. (2022): Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae. Phytotaxa 570 (2): 165-192, DOI: 10.11646/phytotaxa.570.2.4, URL: http://dx.doi.org/10.11646/phytotaxa.570.2.4

Publication date:
October 27, 2022

DOI:
DOI 10.11646/phytotaxa.570.2.4

Keyword(s):
Biodiversity | Taxonomy | Plantae | Tracheophyta | Magnoliopsida | Lamiales | Bignoniaceae

Published in:
Phytotaxa: 570 pp. 165-192 (2).

Related identifiers:

Cites
10.1127/0941-2948/2013/0507 (Publication)
10.1590/2175-7860201566405 (Publication)
10.4067/S0716-078X2009000400012 (Publication)
10.3897/zookeys.150.2109 (Publication)
10.11646/phytotaxa.216.1.1 (Publication)
10.1007/978-3-642-18617-2_2 (Publication)
10.1600/036364419X15710776741341 (Publication)
10.11646/phytotaxa.301.1.1 (Publication)
10.5962/bhl.title.123252 (Publication)
10.11646/phytotaxa.438.5.2 (Publication)
10.2307/2989698 (Publication)
10.2307/1218342 (Publication)

Has part
10.5281/zenodo.7259387 (Taxonomic treatment)
http://treatment.plazi.org/id/03EDCC69EB51EC48FF3809A942D2FC3C (Taxonomic treatment)
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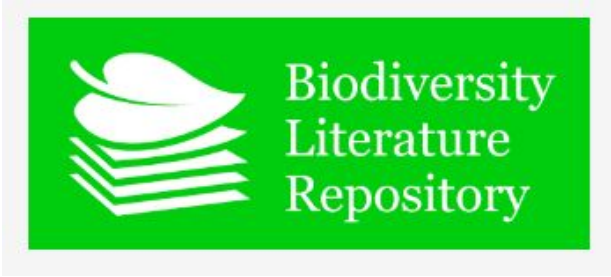
Source of
http://www.gbif.org/dataset/a8573fb3-fa49-43f1-8709-8300cb16e180 (Dataset)

➢ Zenodo

- **BLR on Zenodo**

- **Community for bio-systematics**



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4. To upload publications, please contact info@plazi.org.

Biodiversity Literature Repository

A community to share publications related to bio-systematics. The goal is to provide

1. open access to publications cited in publications or in combination with scientific names
2. open access FAIR data with focus on taxon treatments and figures liberated from publications
3. a digital object identifier (DOI) to enable citation of the publications and data including direct access to its digital representation.

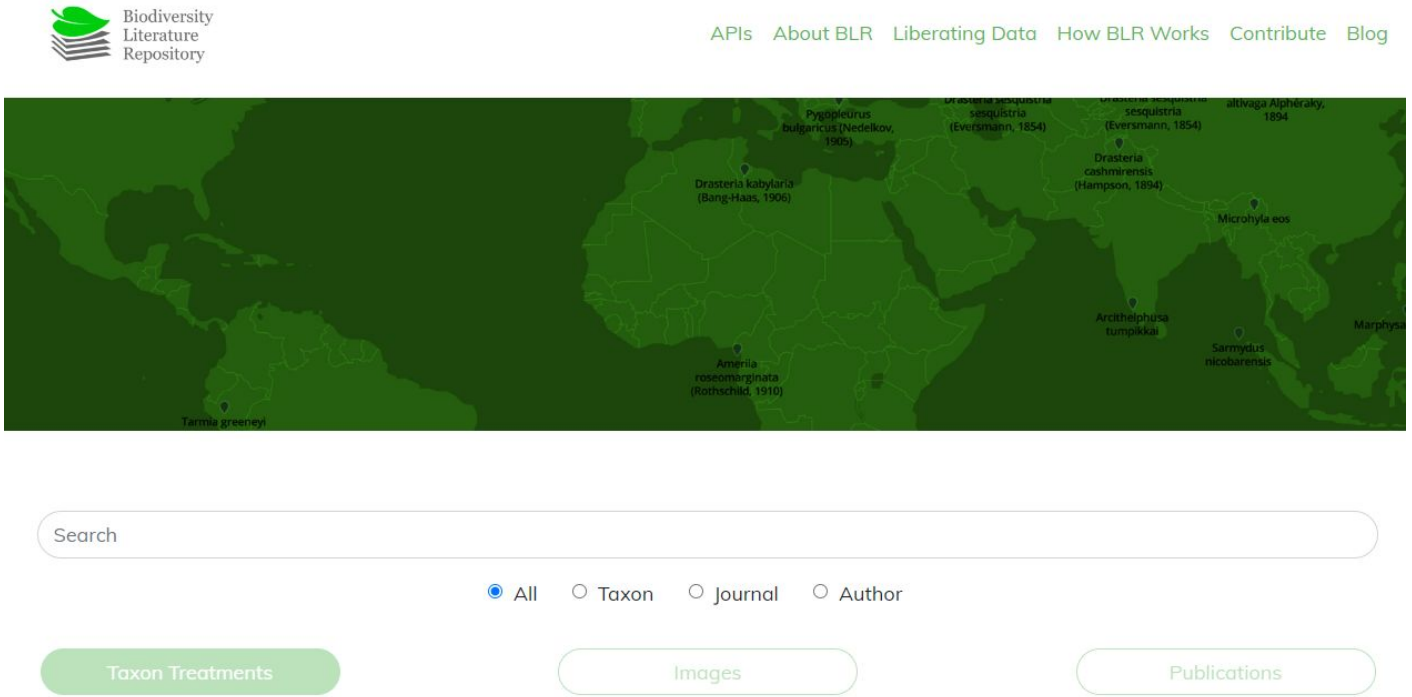
For additional search functionality can be used. This includes also searches in CrossRef, DataCite, PubMed, RefBank, GNUB and Mendeley.

Want your upload to appear in this community?

- Click the button above to upload a record directly to this community.
  To add one of your existing records to the community, edit the record, add this community under the "Communities" section, save, and finally publish.
- The community curator will then be notified to either accept or reject your upload (see community curation policy below).
- If your upload is rejected by the curator, it will still be available on Zenodo, just not in this community.

➢ BLR

- BLR own website

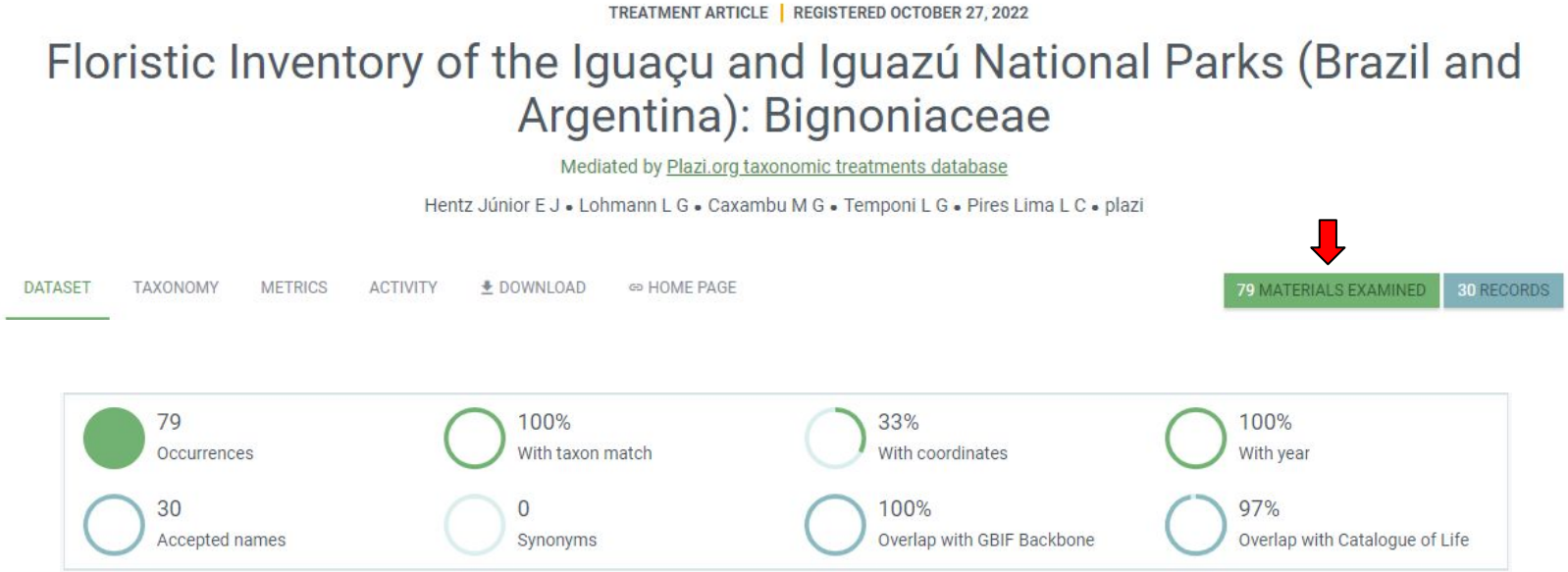


➤ GBIF

- Occurrences -> material citations, specimens, observations…
- Species -> taxon names w/ species rank
- Datasets -> taxonomic articles with treatments

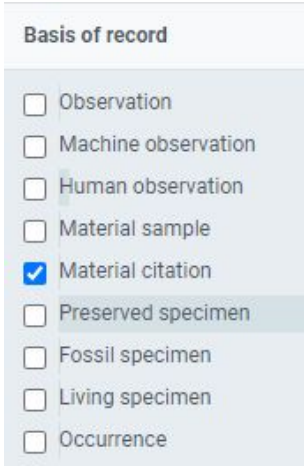
GBIF

- Material examined
- Records = taxon names (valid AND synonyms)



➤ GBIF

- List of occurrences (check basis of record)
- Filters



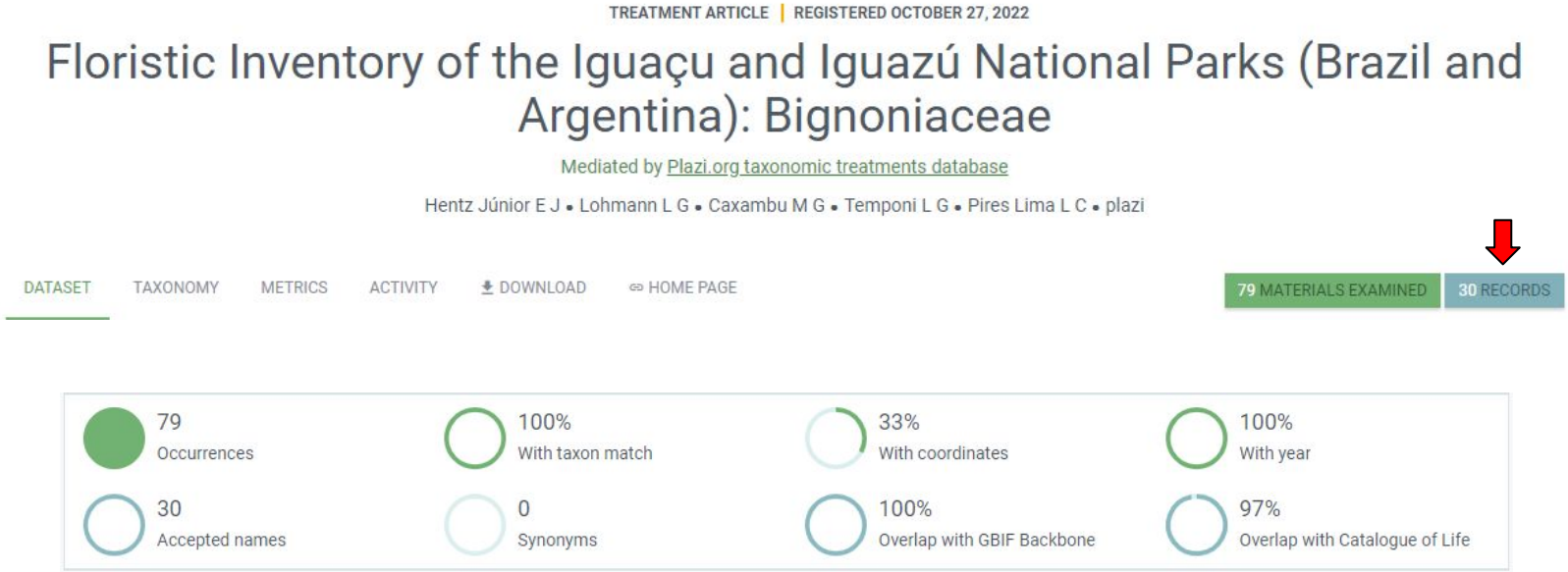
SEARCH OCCURRENCES | 79 RESULTS

TABLE GALLERY MAP TAXONOMY METRICS DOWNLOAD

Scientific name	Country or area	Coordinates	Month & year	Occurrence status	Basis of record	Dataset
Dolichandra cynanchoides Cham.	United States of America	25.4S, 53.7W	2020 February	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Podranea ricasoliana (Tanfani) Sprague	Brazil		2019 January	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Amphilophium crucigerum (L.) L.G.Lohmann	Brazil		2019 January	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Fridericia samydoides (Cham.) L.G.Lohmann	Brazil	25.1S, 53.6W	2019 January	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Fridericia triplinervia (Mart. ex DC.) L.G.Loh...	Brazil		2019 February	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Dolichandra quadrivalvis (Jacq.) L.G.Lohma...	Brazil	25.6S, 54.1W	2019 March	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...
Adenocalymma bracteatum (Cham.) DC.	Brazil		2019 August	Present	Material citation	Floristic Inventory of the Iguaçu and Iguazú...

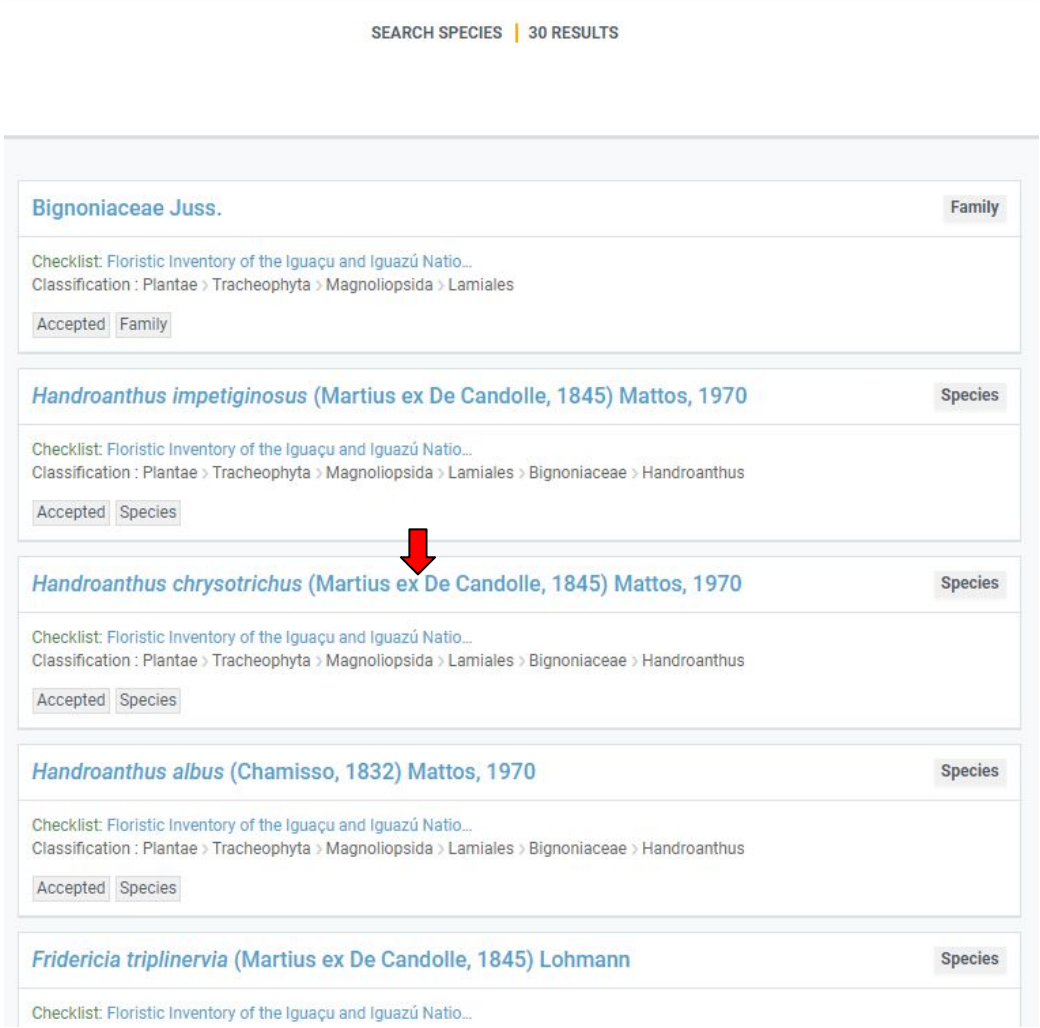
➤ GBIF

- Material examined
- Records = taxon names (valid AND synonyms)



GBIF

- List of treatments inside the dataset



➢ GBIF

- **Source -> leads to TB treatment**

SPECIES | ACCEPTED

Handroanthus chrysotrichus (Martius ex De Candolle, 1845) Mattos, 1970

In: Hentz Júnior, Elmar J., Lohmann, Lúcia G., Caxambu, Marcelo G., Temponi, Lívia G., Pires Lima, Laura C. (2022): Floristic Inventory of the Iguaçu and Iguazú National Parks (Brazil and Argentina): Bignoniaceae. Phytotaxa 570 (2): 165-192, DOI: 10.11646/phytotaxa.570.2.4, URL: http://dx.doi.org/10.11646/phytotaxa.570.2.4

Mediated through: Plazi.org taxonomic treatments database

TREATMENT VERBATIM VIEW IN GBIF BACKBONE SOURCE

6.2. Handroanthus chrysotrichus (Martius ex De Candolle 1845: 216) Mattos (1970: 1) (Figs. 8 b, 9 b–c).

Diagnosis:— Handroanthus chrysotrichus can be recognized by the hirsute calyces and fruits (vs. smooth calyces and fruits in other Handroanthus species).

Reproductive Period:— Flowers were collected in September and October, fruiting in October.

Distribution and Habitat:— Occurs in Argentina and Brazil (Gentry 1992, Lohmann 2010). Within the study area, it was registered in Céu Azul and Foz do Iguaçu, and young individuals were seen in Serranópolis do Iguaçu, in a reforestation area.

Selected Specimens Examined:— BRAZIL. Paraná, Parque Nacional do Iguaçu: Foz do Iguaçu, em frente ao Hotel, 15 September 2018, Hentz Junior 48 (UNOP!); Céu Azul, PIC, 25° 09'18.4"S, 53°50'51.6"W, 12 October 2016, Caxambu 7579 (HCF!).

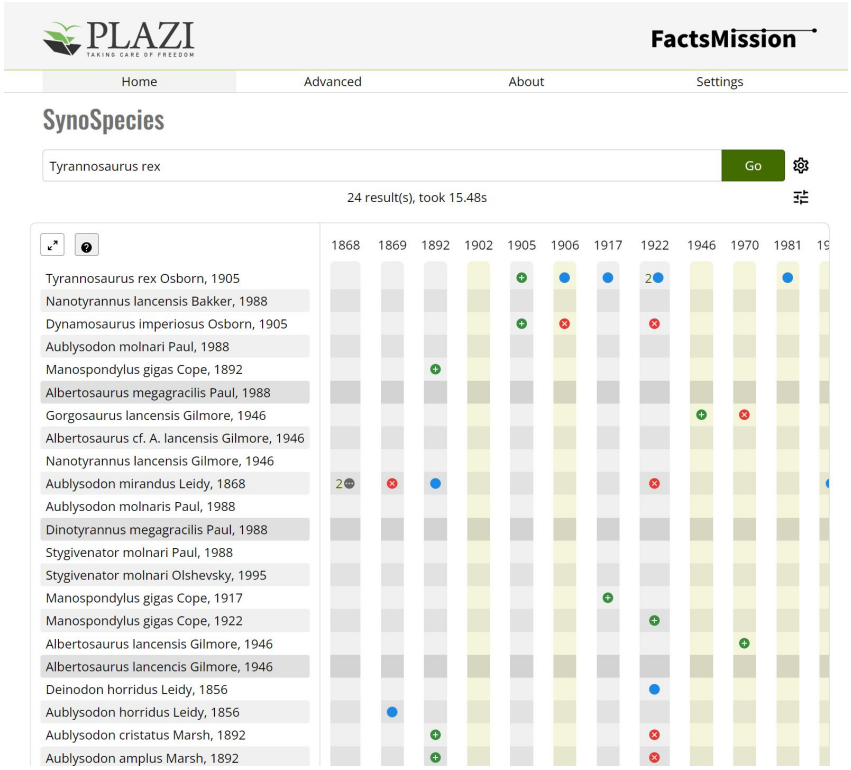
FIGURES

➤ SynoSpecies

- Tool developed by FactsMission

- Easier to explore years of original descriptions and treatments, synonyms, treatment citations, etc

SynoSpecies



Animalia Tyrannosaurus rex

GBIF ID: 4822633

Tyrannosaurus rex Osborn 1905

Phylum	Class	Order	Family
Chordata	Reptilia	Dinosauria	Tyrannosauridae

▶ Justification

▼ Treatments (

)

Augmenting Treatments:

- Osborn, H. F. (1905)
  - — Cited materials: American Museum of Natural History: American Museum No. 973
- D. Bruce Young; Kenneth Carpenter (2002)
  - — Cited materials: CM: CM 9380, DMNH: DMNH 2827, DMNH: DMNH 32825, DMNH: DMNH 32825, FMNH: FMNH PR2081, UCM: UCM 36303, UCM: UCM 38804, YPM: YPM 4192
- Lawrence M. Witmer; Ryan C. Ridgely (2010)
  - — Cited materials: BMR: BMR P2002.4.1, CMNH: CMNH 7541
- Gregory M. Erickson; Philip J. Currie; John R. Horner; Nicholas R. Longrich (2010)
  - — Cited materials: FMNH: FMNH PR 2081, MOR: MOR 1126, MOR: MOR 1602, MOR: MOR 920, UCMP: UCMP 137538
- Wenxia Zheng; Elizabeth M. Boatman; Hoi-Ying N. Holman; Mark B. Goodwin; Mary H. Schweitzer; Ronald Gronsky; Sirine F akra (2019)
  - — Cited materials: USNM: USNM 555000
- Gregory M. Erickson; Paul M. Gignac (2017)
  - — Cited materials: BHI: BHI 3033, BHI: BHI 4100, FMNH: FMNH PR2081, LACM: LACM 23844, MOR: MOR 008, MOR: MOR 980, RTMP: RTMP 81.6.1
- Eric Snively; Donald M. Henderson (2004)
  - — Cited materials: FMNH: FMNH PR2081
- Joseph E. Peterson; Karsen N. Daus (2019)
  - — Cited materials: BHI: BHI 3033, BHI: BHI 3033 "Stan", BMR: BMP P2002.4.1, "Jane", BMR: BMR P2002.4.1
- Andrew C. Kitchener; Bart van Dongen; Michael Buckley; Phillip L. Manning; Stacey Warwood (2017)
  - — Cited materials: MOR: MOR 1125
- David W. E. Hone; Scott A. Williams; Stephen L. Brusatte; Thomas D. Carr; Thomas E. Williamson; Thomas R. Holtz Jr. (2016)
  - — Cited materials: AMNH: AMNH 5027, BMRP: BMRP 2002.4.1, CM: CM 9380, CMNH: CMNH 7541, FMNHN: FMNH PR 2081, LACM: LACM 28471, MOR: MOR 008

➤ Ocellus

- Frontend to the Biodiversity Literature Repository
- Queries, analyzes and aggregates results from these various repositories
- Provide images for several taxa

➤ Ocellus


ocellus 4
A PLAZI PROJECT
about
search 491566 images
search for something
GO
Click on the link to try the search
Note: These extended syntax queries are currently only possible against treatments.
▼ all fishes in articles published since 2021-12-21
class=Actinopterygii&publicationDate=since(2021-12-21)
▶ text contains 'shrimp' in articles published since 2020-12-21
▶ images from treatments checked in since yesterday
▶ text contains 'tyrannosaurus' and authorityName starts with 'Osborn'
▶ images from treatments from family 'Agamidae'
▶ text contains 'moloch' OR 'horridus'
▶ text contains 'decapoda' and the journal is not "Zootaxa"

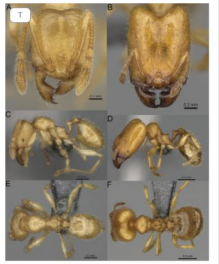
Ocellus

search images

family=Formicidae

GO

3507 images found where **family** is Formicidae



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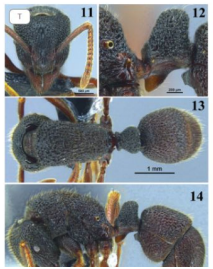

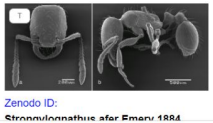

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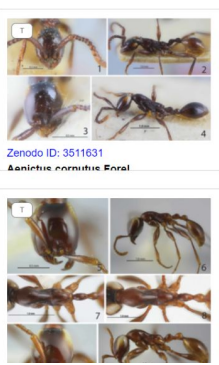
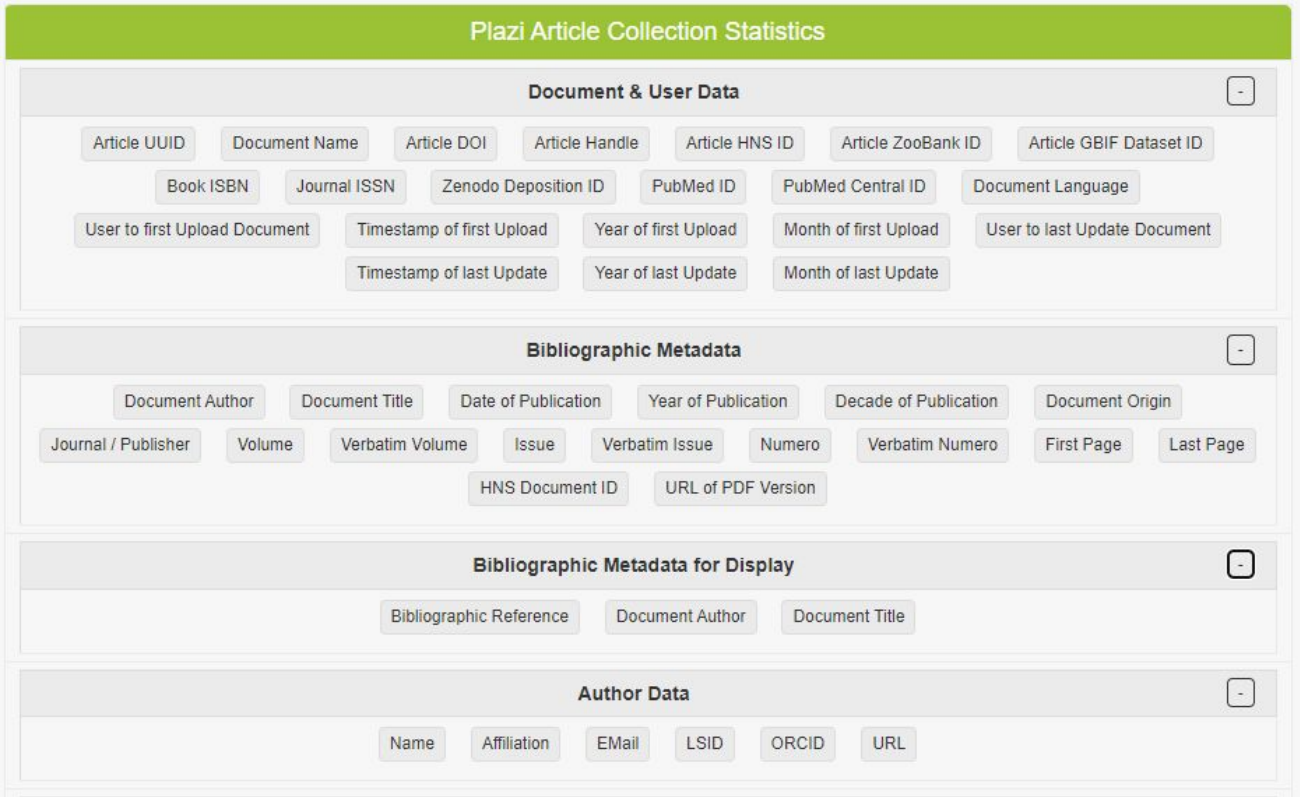


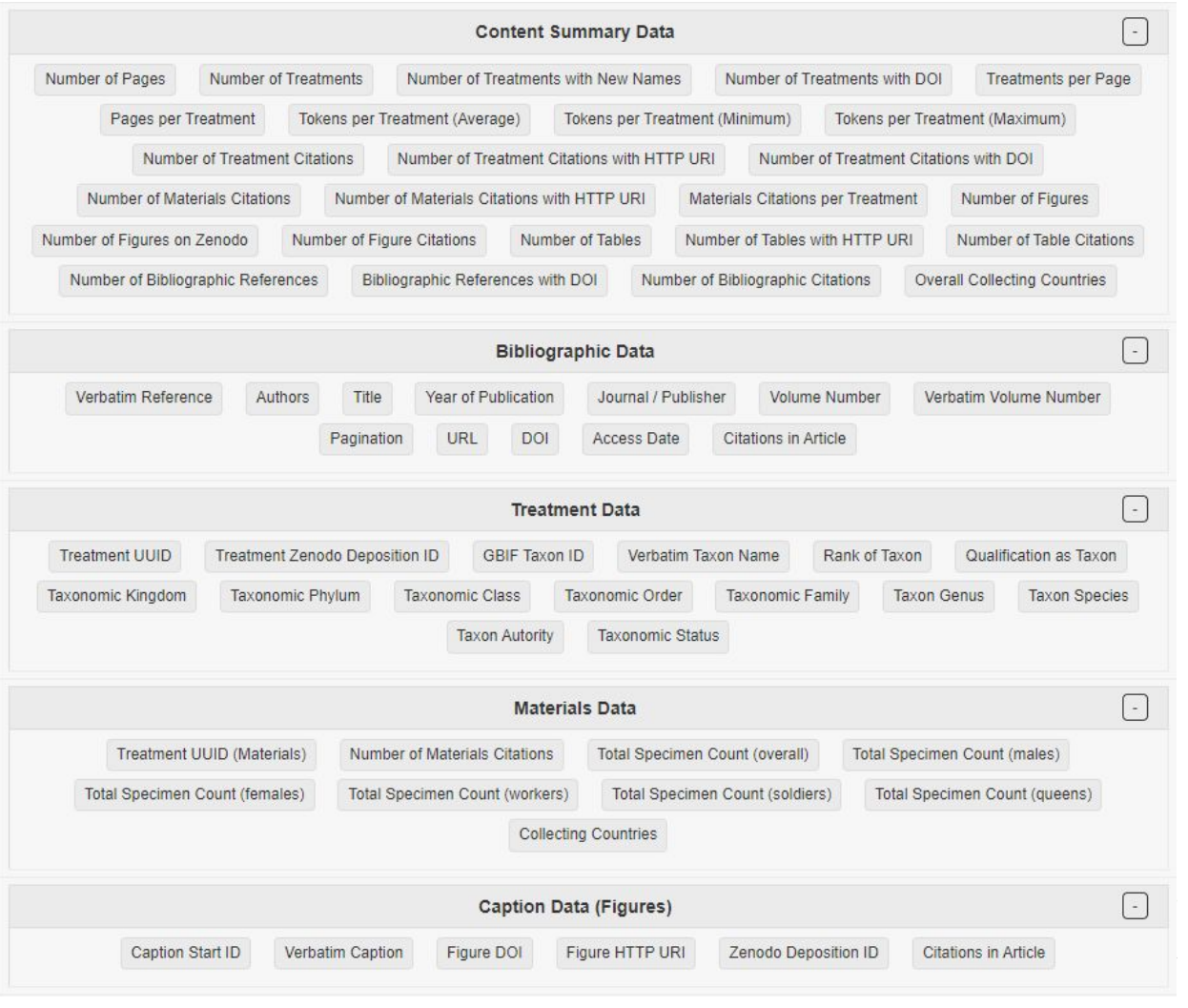
Zenodo ID: 3511631

➤ Article stats

- Select desired fields

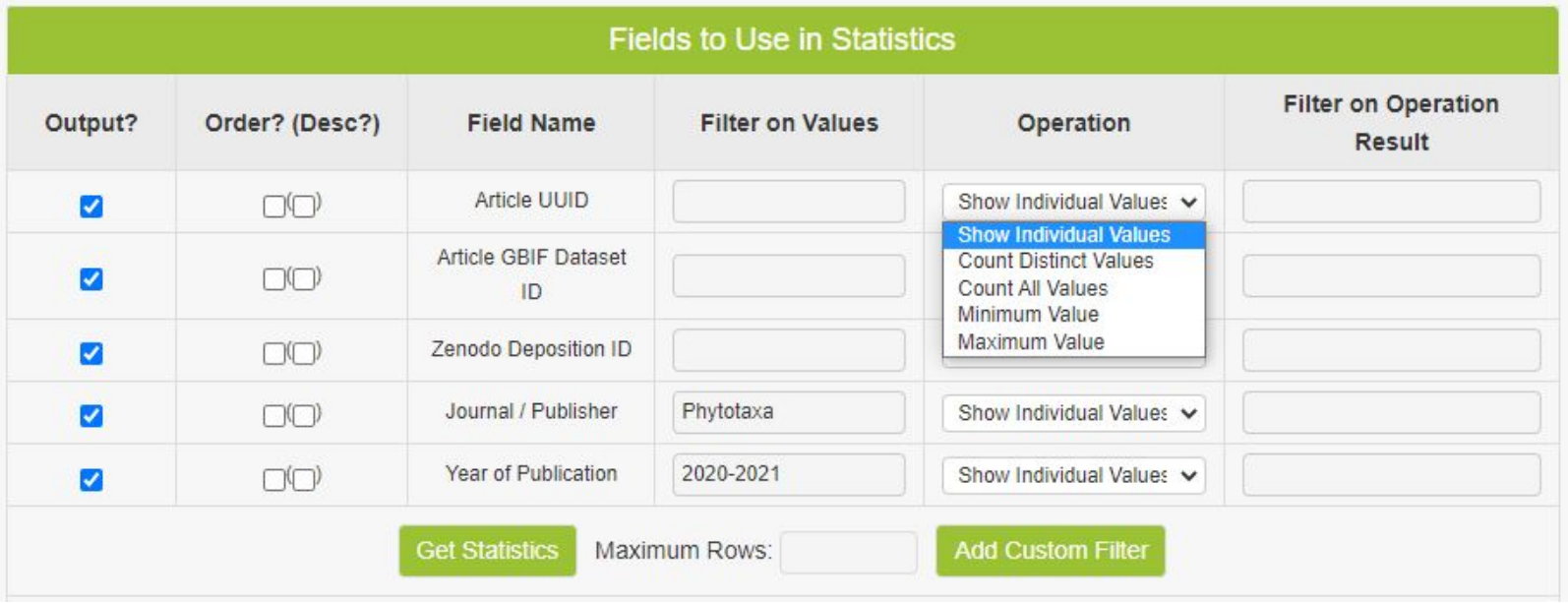


➤ Article stats



➤ Article stats

- Filter on values and choose the operation



➢ Article stats

- Statistics output

Article UUID	Article GBIF Dataset ID
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D62EFF84FFE6FFDC9062FFF5FFFEFFDC	5813d31b-2ad4-455c-9999-b731186d048d
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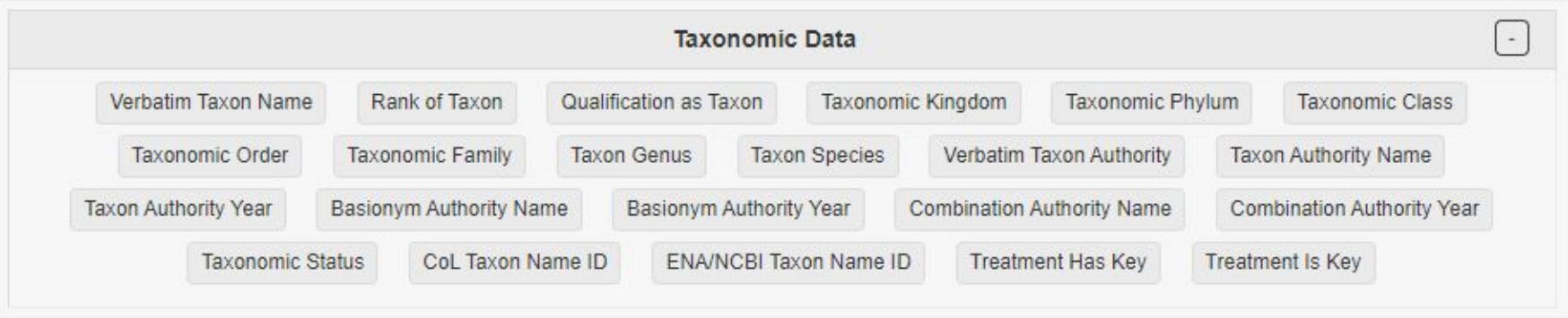
Zenodo Deposition ID	Year of Publication	Journal / Publisher
5585883	2020	Phytotaxa
4784553	2020	Phytotaxa
4784518	2020	Phytotaxa
4784526	2020	Phytotaxa
5585921	2020	Phytotaxa
5585894	2020	Phytotaxa
5585916	2020	Phytotaxa

➤ Article Stats

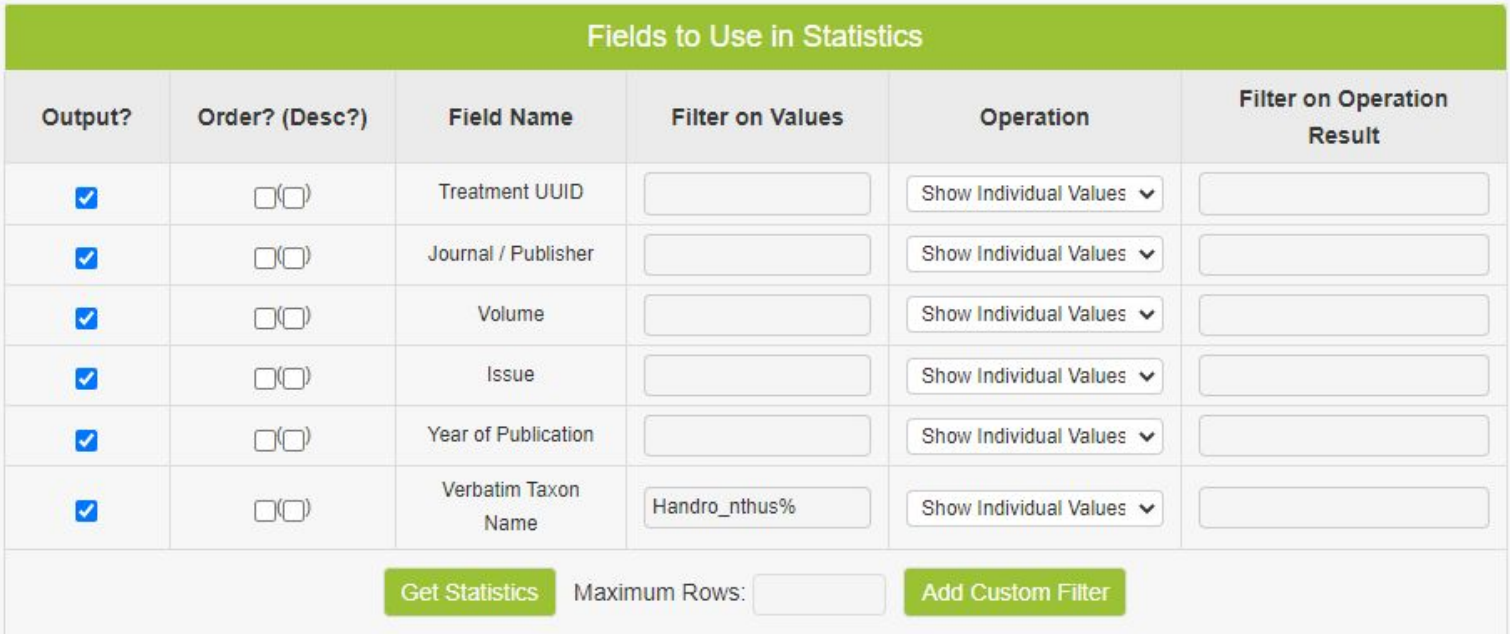
- “Get this statistics in HTML” -> web link
- “Get this statistics in CSV” -> open in MS Excel
- “Get this statistics in XML” -> extensible markup language, can be processed by a website, web application, or software program.

➤ Treatment stats

- May overlap some fields with the article stats
- More focused on treatments, taxon names, treatment citations, and materials citations



➤ Treatment stats



- Tips:
  - “%” searches for anything or nothing in that spot
  - “_” accepts any letter in that spot

➤ Treatment stats

- List of distinct journals and distinct species published under *Handroanthus*

- Filter by “Count Distinct Values”

Fields to Use in Statistics

Output?	Order? (Desc?)	Field Name	Filter on Values	Operation	Filter on Operation Result
☑	☐(☐)	Taxon Species		Count Distinct Values	
☑	☐(☐)	Taxon Genus	Handroanthus	Count Distinct Values	
☑	☐(☐)	Journal / Publisher		Count Distinct Values	

Operation dropdown: Show Individual Values; Count Distinct Values; Count All Values; Minimum Value; Maximum Value

Get Statistics Maximum Rows:

Get this Statistics in HTML Get this Statistics in CSV Get this Statistics for MS Excel Get this Statistics in JSON Get this Statistics in XML

Number of Treatments	Journal / Publisher	Taxon Genus	Taxon Species
10	2	1	9

➢ ‘Gatekeeper’

- It is a search on errors in PDS (Processing Data Statistics) Stats showing critical errors that still exist after qc

  It gives us information about where the errors are located. We need to locate them in the documents and fix them, only then the data can possibly reach the aimed repositories

➢ 'Gatekeeper'

Article UUID	Document Name	Date of first Upload	Data Detail Label
FFAAFFC69E43FFB4FFE9FFBFFFC07D32	Anthropozoologica.56.18.281-288.pdf.imf	2022-01-03	Anthropozoologica.56.18.281-288.pdf.imf
FFAAFFC69E43FFB4FFE9FFBFFFC07D32	Anthropozoologica.56.18.281-288.pdf.imf	2022-01-03	Anthropozoologica.56.18.281-288.pdf.imf
FFAAFFC69E43FFB4FFE9FFBFFFC07D32	Anthropozoologica.56.18.281-288.pdf.imf	2022-01-03	Anthropozoologica.56.18.281-288.pdf.imf
FFAAFFC69E43FFB4FFE9FFBFFFC07D32	Anthropozoologica.56.18.281-288.pdf.imf	2022-01-03	Anthropozoologica.56.18.281-288.pdf.imf
FFAAFFC69E43FFB4FFE9FFBFFFC07D32	Anthropozoologica.56.18.281-288.pdf.imf	2022-01-03	Anthropozoologica.56.18.281-288.pdf.imf
A9457B3E5E68FF95FFF7FFBD7947FFF7	phytotaxa.529.1.11.pdf	2022-01-03	Oxalis eriocarpa De Candolle 1825
A9457B3E5E68FF95FFF7FFBD7947FFF7	phytotaxa.529.1.11.pdf	2022-01-03	Oxalis refracta Saint-Hilaire 1825
A9457B3E5E68FF95FFF7FFBD7947FFF7	phytotaxa.529.1.11.pdf	2022-01-03	Oxalis sarmentosa Zuccarini 1832
FFF5F70DFFC567032F30BF6DFF88FFAA	zootaxa.5086.1.4.pdf	2022-01-03	Neoseiulus subreticulatus

Problem Source	Problem Type	Problem Description
ErrorProtocolInspector	document/missingMetadata	Incomplete bibliographic metadata
ErrorProtocolInspector	originalDoi/missingOriginalDoi	Missing original DOI
ErrorProtocolInspector	textStreams/paragraphEnd	Unresolved text flow or paragraph boundary issues
ErrorProtocolInspector	textStreams/paragraphStart	Unresolved text flow or paragraph boundary issues
ErrorProtocolInspector	treatments/brokenBoundaries	Unresolved treatment boundary issues
ErrorProtocolInspector	treatments/brokenReferenceGroup	Reference group cites suspicious taxon names
ErrorProtocolInspector	treatments/brokenReferenceGroup	Reference group cites suspicious taxon names
ErrorProtocolInspector	matCits/brokenDetails	Unresolved materials citation detail issues
TaxPub	validationError	Invalid treatment TaxPub level 1

➤ Article stats

- All articles uploaded to our server receive a TreatmentBank UUID

- After quality control and gatekeeper, all articles should have also a Zenodo ID

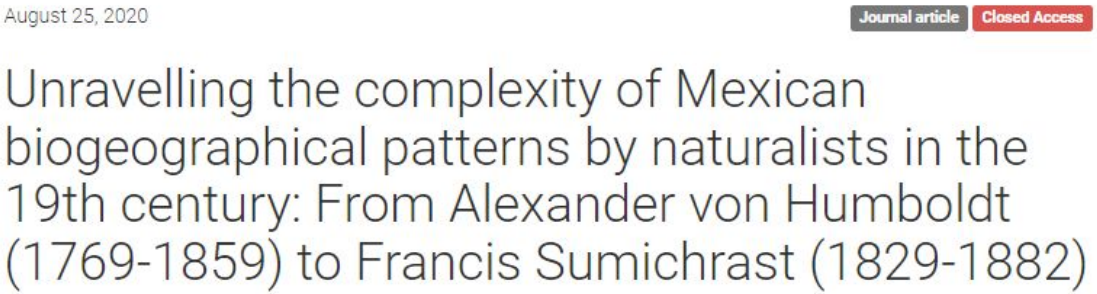
- If the article has treatments, it will also present a GBIF Dataset ID after the quality control and gatekeeper

- Quality control and gatekeeper: ways to prevent critical errors from being exported to the repositories

➢ Article stats

- If the article does not have treatments
- TB UUID:

- It still should have a Zenodo record (after QC):



➤ TDL Stats

- TB’s Treatment Detail Linking Statistics, useful for statistics regarding the Matching Service tool
- Summary of generated links between specimens in GBIF and their material citations
- Search for researcher’s contribution
- Similar approach to that of the other TB stats

➤ TDL Stats

Number of Links	Treatment UUID	User ID to Add Link (ORCID, etc.)	Date Link was Added
2	0384CE7C2779FFA2FF025825AD8EFF74	0000-0003-3050-793X	2022-11-08
2	03E5FD39FFF1FFD6C6EEFE8DFDCFFBB3	0000-0003-3050-793X	2022-11-08
2	03C20928FFBBFF8D424615893DF20F3C	0000-0003-3050-793X	2022-11-21
2	03C20928FFBBFF8D424615893DF20F3C	0000-0003-3050-793X	2022-11-21
2	03C20928FFBBFF8D424615893DF20F3C	0000-0003-3050-793X	2022-11-21
2	290714D660D884B92DFCD16728ED54A6	0000-0003-3050-793X	2022-11-21
2	3E5199729F0E2717FDD384FDFE06FC9C	0000-0003-3050-793X	2022-11-21
2	03C8E66AFFDDFF92FF4EFB7AFC4334D2	0000-0003-3050-793X	2022-11-22

Materials Citation UUID	GBIF Specimen ID	Collecting Country
3B457537277EFFA2FE3E59E7AD85FF74	238945476	Bolivia
3B244672FFF1FFD6C6EEFE54FE0AFC93	215565671	
3B03B263FFBDFF8F452B12483D300FD3	1315159462	Namibia
3B03B263FFBDFF8F44C213B93F430EBC	1315159464	Namibia
3B03B263FFBDFF8F409216863F0B0BB9	1315159479	South Africa
B7683F9B3E0678166BA3DEDDF3301886	1315201834	Namibia
069022399F0E2709FF16814EFB6DFB29	1224548530	South Africa
3B095D21FFDDFF92FB5DFA94FBA6347E	466181599	Peru

LET’S EXPLORE PLAZI STATS!

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