

CETAF-ISTC Linked Open (Collection) Data Workshop

Stuttgart, 27 March 2017

CETAF Stable IDs: 13 implementations

Botanic Garden and Botanical Museum Berlin, Finnish Museum of Natural History, Helsinki, Institute of Botany, Slovak Academy of Sciences, Bratislava, Museum für Naturkunde Berlin, Muséum national d'histoire naturelle, Paris, Naturalis Biodiversity Center, Leiden, The Natural History Museum, London, Natural History Museum - University of Oslo, Royal Botanic Garden Edinburgh, Royal Botanic Gardens Kew, London, Staatliche Naturwissenschaftliche Sammlungen Bayerns, Staatliches Museum für Naturkunde Stuttgart, Zoologisches Forschungsmuseum Alexander Koenig, Bonn

CETAF Stable IDs: 13 + 2 implementations

Botanic Garden and Botanical Museum Berlin, Finnish Museum of Natural History, Helsinki, Institute of Botany, Slovak Academy of Sciences, Bratislava, Museum für Naturkunde Berlin, Muséum national d'histoire naturelle, Paris, Naturalis Biodiversity Center, Leiden, The Natural History Museum, London, Natural History Museum - University of Oslo, Royal Botanic Garden Edinburgh, Royal Botanic Gardens Kew, London, Staatliche Naturwissenschaftliche Sammlungen Bayerns, Staatliches Museum für Naturkunde Stuttgart, Zoologisches Forschungsmuseum Alexander Koenig, Bonn

New: RMCA and RBINS implemented during “mentoring week” in October 2016.

CETAF Stable Ids in the wild

- GBIF

http://herbarium.bgbm.org/object/B100627071

Source details

JAVA NUMBER
Institute: Botanische und Paläontologische Museen Berlin-Dahlem
INSTITUTION CODE
B
COLLECTOR
Hector Leveillé
COLLECTION DATE
1861
LOCALITY
Ecuador, Mindo, Morona-Santiago, 1000 m, 05°15' S 78°00' W
Elevation: 1000 m
Storage name:
Yasunia sessiliflora van der Werff
Type status: isotype

Freie Universität Berlin

VISIT US WHAT'S ON THE GARDEN THE MUSEUM SCIENCE

Family: LAURACEAE
Collection: Ecuador
Barcode: B 10 0457427
Storage name: Yasunia sessiliflora van der Werff
Type status: isotype

Annotate specimen User guide

Stable identifier for specimen citations: http://herbarium.bgbm.org/object/B100457427

Save as JPEG..

A single collection was cited in the protologue of the name, but none of the three duplicates mentioned above carry the species name nor were they annotated by Hector Léveillé. Lauener (1965) indicated that the type is at E, but he did not specify which of the two sheets there is the type, and therefore a second-step lectotypification is provided here.

3. *Cardamine circaeoides* Hook.f. & Thomson, J. Proc. Linn. Soc., Bot. 5: 144. 1861 (<http://ipni.org/urn/lid:ipni.org.names.280232-1-1.1.2.1.1.3>). Described from: [INDIA] "In Himalaya orientali temperata, Sikkim interiore, sylvis, alt. 5000-7000 ped. ! J. D. H. (v.v.)". Lectotype (designated here, or perhaps holotype): [Label 1]: [INDIA] "Hab. Sikkim, Regio temp., J. D. H[ooker]"; [Label 2]: [INDIA] "295 Hab. wet wood, Gohsun, Sikkim, 5000 ft." - K! (K000077050 [<http://specimens.kew.org/herbarium/K000077050>]); Doubtful islectotypes - B! (B 10 0386925 [<http://herbarium.bgbm.org/object/B100386925>]), P! (P00747534 [<http://coldb.mnhn.fr/catalognumber/mnhn/p/p00747534>]).

The K specimen above was collected at an elevation of 5,000 ft, which is in agreement with the protologue, whereas labels of the B and P sheets indicate the elevation of 6,000–10,000 ft. It is questionable whether the three specimens above were collected from the same area, and that is why we feel that the B and P specimens are doubtful islectotypes.

CETAF Stable Ids in the wild

- GBIF
 - BioCASE

 Freie Universität Berlin

 Botanischer Garten & Botanisches Museum Berlin-Dahlem

Home About us Contact Press Imprint

VISITUS WHAT'S ON THE GARDEN THE MUSEUM SCIENCE

Family: LAUREACEAE ***Yasunia sessiliflora* van der Werff**

Collection: *Yasunia sessiliflora* van der Werff

Ecuador

Barcode: B 10 0457427

Storage name:

Yasunia sessiliflora van der Werff

Type status: **isotype**

Stable identifier for specimen citations: <http://herbarium.bgbm.org/object/B100457427>

Annotate specimen 



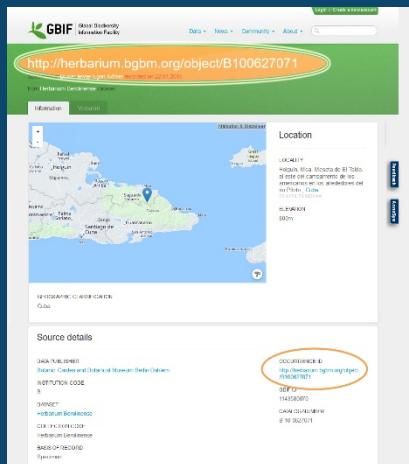
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CETAF Stable Ids in the wild

- GBIF
- BioCASE
- Local Collection Information Systems



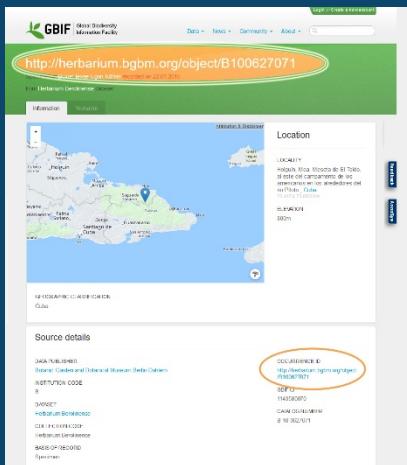
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CETAF Stable Ids in the wild

- GBIF
- BioCASE
- Local Collection Information Systems
- (Taxonomic) publications



GBIF Biodiversity Information Facility

Data News Community About

http://herbarium.bgbm.org/object/B100627071

Herbarium Collection Details

Location

LOCALITY: Ecuador, Mindo, Morona Santiago, 1000 m.s.n.m., 02°15' S, 78°15' W, 1000 m.s.n.m.

Altitude: 1000 m.s.n.m.

Coordinates: 02°15' S, 78°15' W

Source details

JAVA NUMBER: 00000000000000000000000000000000

INSTITUTION CODE: B

COLLECTOR: Herbarium Berlin-Bodemann

COLLECTION DATE: 1998-02-01

TYPE LOCALITY: Mindo, Morona Santiago, Ecuador

DOC-ID: B100627071

http://herbarium.bgbm.org/object/B100627071

2014-05-07 14:45:00

DATA CENTER: B

DOI: 10.5438/00000000000000000000000000000000



Freie Universität Berlin

Home About us Contact Press Imprint

VISIT US WHAT'S ON THE GARDEN THE MUSEUM SCIENCE

Family: LAURACEAE

Collection: Ecuador

Barcode: B 10 0457427

Storage name: Yasunia sessiliflora van der Werff

Type status: isotype

Yasunia sessiliflora van der Werff

Annotate specimen User guide

Stable identifier for specimen citations: http://herbarium.bgbm.org/object/B100457427

Save as JPEG...

View

The image shows a photograph of a herbarium specimen of Yasunia sessiliflora, featuring a single leaf with a prominent midrib.

A single collection was cited in the protologue of the name, but none of the three duplicates mentioned above carry the species name nor were they annotated by Hector Léveillé. [Lauener \(1965\)](#) indicated that the type is at E, but he did not specify which of the two sheets there is the type, and therefore a second-step lectotypification is provided here.

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What else?

- “Registry” on the CETAF website

[CETAF URI TESTER](#) [IMPLEMENTATIONS](#) [DOCUMENTATION](#) [CONTACT](#)

Enter a URL in the box below and click “Check Now” or click for example: <http://www.ncbi.nlm.nih.gov/entrez/>

Checking URI format

- The host component is the name of the site (e.g. ncbi)
- The path component is “/pub/entrez/query.fcgi?db=nucleotide&term=specimens...”
- The path component is “/pub/entrez/query.fcgi?db=nucleotide&term=specimens...” which is a good thing.
- Format of URI appears OK. Continuing test.

Requesting HTML Format Data

- 1 Requesting HTML by passing “Accept: text/html” header
- 2 Requesting HTML by clicking “Get HTML” button
- 3 Requesting HTML by clicking “Get HTML” link

CETAF Specimen Preview Profile

Preview URIs are listed first followed by any distributed URIs that may contain the required values:

CETAF Element	Mandatory	RDF resource URI	Resource Expected	Value
life	Yes	http://purl.org/net/terms#life	False	Pewee, Georg August (1715-1785) Ottobrunn, Württemberg (Königlich Württ.)
Kind of Material	No	http://purl.org/net/terms#type	Specimen	

[CETAF URI TESTER](#) [IMPLEMENTATIONS](#) [DOCUMENTATION](#) [CONTACT](#)

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- 1 Requesting HTML by passing “Accept: text/html” header
- 2 Requesting HTML by clicking “Get HTML” button
- 3 Requesting HTML by clicking “Get HTML” link

Requesting RDF Format Data

- 1 Requesting RDF by passing “Accept: application/rdf+xml” header
- 2 Requesting RDF by clicking “Get RDF” button
- 3 Requesting RDF by clicking “Get RDF” link

Parsing RDF

CETAF Specimen Preview Profile

Preview URIs are listed first followed by any distributed URIs that may contain the required values:

CETAF Element	Mandatory	RDF resource URI	Resource Expected	Value
life	Yes	http://purl.org/net/terms#life	False	Pewee, Georg August (1715-1785) Ottobrunn, Württemberg (Königlich Württ.)
Kind of Material	No	http://purl.org/net/terms#type	Specimen	

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2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 23

***Laurus obtusifolia* Lodd.**

Taxon: Lauraceae
Authority: Wall.

Specimens 3 Hide ▲

MUSEUM **EDINBURGH** **FRANCE** **GERMANY** **ITALY** **SPAIN** **SWITZERLAND** **UK** **USA** **WORLD**

2574 *Laurus obtusifolia* Lodd. 1820

Cinnamomum leptocephala (Burm. f.) Sweet

Cinnamomum leptocephala (Burm. f.) Sweet Lauraceae

N. Willd. cat. 2574

DOSA

BSM

Collected: 2016-06-03 14:41:16 UTC

Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017 DOI: 10.1093/database/baw003

1st Anton Günsch at 19.05 - Freie Universität Berlin

2nd Roger Hyam at 15.35 - Royal Botanic Garden Edinburgh

3rd Gregor Hagedorn at 21.73 - Museum für Naturkunde Berlin

Last Gabriele Droege at 19.64 - Freie Universität Berlin

Abstract

With biodiversity research activities being increasingly shifted to the web, the need for a system of persistent and stable identifiers for physical collection objects becomes increasingly pressing. The Consortium of European Taxonomic Facilities agreed on a common system of HTTP-URI-based stable identifiers which is now rolled out to its member organizations. The system follows Linked Open Data principles and implements...

What else?

- “Registry” on the CETAF website
- URI Tester

CETAF Specimen URI Tester

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=pubmed&term=specimen+item+00001> [Check Now]

Checking URI format

- ✓ The host component is the name of the site (e.g. ncbi)
- ✓ The path component is "/db/00001" (the first part of the URL)
- ✓ The query component is "cmd=Search&db=pubmed&term=specimen+item+00001" (the part of the URL which specifies what is a good thing).
- ✓ Format of URL appears OK. Continuing test.

Requesting HTML Format Data

- 1 Requesting HTML by passing "Accept" header header
- 2 Received HTML <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=pubmed&term=specimen+item+00001>

Specimen Preview Profile

Specimen URIs are listed first followed by any distributed URIs that may contain the required value.

CETAF Element	Metadata	RDF resource URI	Resource Expected	Value
life	Yes	http://purl.org/net/terms#life	False	Twice, Georg August (1715-1785) Ottobrunn, Württemberg (K. Schmid) Medit.
Kind of Material	No	http://purl.org/net/terms#type	True	Specimen

CETAF Specimen URI Tester

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=pubmed&term=specimen+item+00001> [Check Now]

Checking URI format

- ✓ The host component is the name of the site (e.g. ncbi)
- ✓ The path component is "/db/00001" (the first part of the URL)
- ✓ The query component is "cmd=Search&db=pubmed&term=specimen+item+00001" (the part of the URL which specifies what is a good thing).
- ✓ Format of URL appears OK. Continuing test.

Requesting HTML Format Data

- 1 Requesting HTML by passing "Accept" header header
- 2 Received HTML <http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Search&db=pubmed&term=specimen+item+00001>

Parsing RDF

CETAF Specimen Preview Profile

Specified URIs are listed first followed by any distributed URIs that may contain the required value.

CETAF Element	Metadata	RDF resource URI	Resource Expected	Value
life	Yes	http://purl.org/net/terms#life	False	Twice, Georg August (1715-1785) Ottobrunn, Württemberg (K. Schmid) Medit.
Kind of Material	No	http://purl.org/net/terms#type	True	Specimen

2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 23

Laurus obtusifolia

Taxon: *Laurus obtusifolia*
Authority: Wall.

Specimens: 1 Hide ▲

MUSEUM **NAME** **SYNTYPE** **COLLECTOR** **LOCALITY** **DATE** **TYPE** **OTHER**

2574 Laurus obtusifolia Wall. 1862

Collection: 2574: *Laurus obtusifolia* Wall. **Page:** 23 **Collection:** 2574: *Laurus obtusifolia* Wall. **Page:** 23

Abstract

With biodiversity research activities being increasingly shifted to the web, the need for a system of persistent and stable identifiers for physical collection objects becomes increasingly pressing. The Consortium of European Taxonomic Facilities agreed on a common system of HTTP-URI-based stable identifiers which is now rolled out to its member organizations. The system follows Linked Open Data principles and implements. [\[Read more\]](#)

Actionable, long-term stable and semantic web compatible identifiers for access to biological collection objects

FULL TEXT Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017 DOI: 10.1093/database/baw003

1st Anton Günsch 19.05 - Freie Universität Berlin

2nd Roger Hyam 15.35 - Royal Botanic Garden Edinburgh

3rd Gregor Hagedorn 21.73 - Museum für Naturk... [+ 15](#)

Last Gabriele Droege 19.64 - Freie Universität Berlin

Show more authors

What else?

- “Registry” on the CETAF website
- URI Tester
- CETAF Specimen Preview Profile (CSPP)

CETAF Specimen URI Tester

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/entrez/> [Check Now]

Checking URI format

✓ The host component is the domain name of the page (e.g. ncbi.nlm.nih.gov)

✓ The path component is /db/entrez/nlmcatalog/which/575/ between / and /nlmcatalog/

✓ The query component is /species?term=... which is a good thing.

✓ Format of URI appears OK. Continuing test.

Requesting HTML Format Data

1 Requesting HTML by passing Accept header header
2 Requesting HTML by passing Accept header header
3 Default URI: <http://www.ncbi.nlm.nih.gov/entrez/nlmcatalog/which/575/>

Specimen Preview Profile

Predicted URIs are listed first followed by any distributed URIs that may contain the required values

CSPF Element	Metadata	RDF resource URI	Resource Expected	Value
Uri	Yes	http://purl.org/dc/terms/type	False	Twice, Georg August (1710-1765) Ottobrunn (Königlich) Medd.
Kind of Material	No	http://purl.org/dc/terms/specy	True	Specimen

CETAF Specimen URI Tester

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/entrez/> [Check Now]

Checking URI format

✓ The host component is the domain name of the page (e.g. ncbi.nlm.nih.gov)

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✓ The query component is /species?term=... which is a good thing.

✓ Format of URI appears OK. Continuing test.

Requesting HTML Format Data

1 Requesting HTML by passing Accept header header
2 Requesting HTML by passing Accept header header
3 Default URI: <http://www.ncbi.nlm.nih.gov/entrez/nlmcatalog/which/575/>

MUSEUM

SYNTYPE

2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 23

Laurus obtusifolia

Taxon: Lauraceae
Authority: Wall.

Specimens: 1 Hide ▲

Collection: 2574 Laurus obtusifolia Wall.
Specimen Barcode: E01027715
Stable URL: <http://herbarium.agron.msu.edu/obj/e01027715>

Collection: 2574: *Laurus obtusifolia* Wall.
Page: 23
Collection: 2574 Laurus obtusifolia Wall.
Location: Synt.

Actionable, long-term stable and semantic web compatible identifiers for access to biological collection objects

FULL TEXT Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017 DOI: 10.1093/database/baw003

1st Anton Güntsch 19.05 · Freie Universität Berlin

2nd Roger Hyam 15.35 · Royal Botanic Garden Edinburgh

3rd Gregor Hagedorn 21.73 · Museum für Naturk... + 15

Last Gabriele Droege 19.64 · Freie Universität Berlin

Show more authors

Abstract

With biodiversity research activities being increasingly shifted to the web, the need for a system of persistent and stable identifiers for physical collection objects becomes increasingly pressing. The Consortium of European Taxonomic Facilities agreed on a common system of HTTP-URI-based stable identifiers which is now rolled out to its member organizations. The system follows Linked Open Data principles and implements...

What else?

- “Registry” on the CETAF website
- URI Tester
- CETAF Specimen Preview Profile (CSPP)
- Wallich Catalogue demonstrator

[CETAF URI TESTER](#) [IMPLEMENTATION](#) [DOCUMENTATION](#) [CONTACT](#)

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc/100001> [Submit]

Checking URI format

The URL you entered is valid.
✓ The host component is "www.ncbi.nlm.nih.gov"
✓ The path component is "/geo/studies/geoacc/100001"
✓ The query component is ""
✓ The URL is well formed, which is a good thing.
✓ Format of URL appears OK. Continuing test.

Requesting HTML Format Data

1 Requesting HTML by passing Accept header
2 Requested URL: <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc/100001>

CETAF Herbarium Catalogue

Search: Laurus obtusifolia

Search for recent specimens | Advanced search

Sort by: Recent | Scientific name | Collection date | Author | Family | Publication | Specimen ID

Specimen ID: 2574 Laurus obtusifolia Wall.

MUSEUM: JARDIN BOTANIQUE DE PARIS (MNHN, Paris, FRA) SYNTYPE

Author: Wall. Species: Laurus obtusifolia Wall. Status: Valid

Requesting RDF Format Data

1 Requesting RDF by passing Accept header
2 Requested URL: <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc/100001>

Parsing RDF

CETAF Specimen Preview Profile

Parsed RDF is what we did when we requested RDF that may contain the required values:

CETAF Element	Metadata	RDF resource URI	Resource Expected	Value
life	Yes	http://purl.org/dc/terms/life	False	Twice, Georg August (1715-1785) Ottobrunn, Württemberg
Kind of Material	No	http://purl.org/dc/terms/type	Type	Specimen

[CETAF URI TESTER](#) [IMPLEMENTATION](#) [DOCUMENTATION](#) [CONTACT](#)

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc/100001> [Submit]

Checking URI format

The URL you entered is valid.
✓ The host component is "www.ncbi.nlm.nih.gov"
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Kind of Material	No	http://purl.org/dc/terms/type	Type	Specimen

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2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 23

Laurus obtusifolia Lodd.

Taxon: *Laurus obtusifolia* Lodd.

Authority: Wall.

Specimens: 1 Hide ▲

2574 Laurus obtusifolia Lodd. 1868. Bot. Mag. 2574 Laurus obtusifolia Lodd. 1868. Bot. Mag. 2574 Laurus obtusifolia Lodd. 1868. Bot. Mag. 2574 Laurus obtusifolia Lodd. 1868. Bot. Mag.

Entered: 2016-06-03 14:41:16 UTC

Abstract

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Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017

DOI: 10.1093/database/bax003

1st Anton Güntsch [✉](#) 19.05 · Freie Universität Berlin

2nd Roger Hyam [✉](#) 15.35 · Royal Botanic Garden Edinburgh

3rd Gregor Hagedorn [✉](#) 21.73 · Museum für Naturkunde Berlin

Last Gabriele Droege [✉](#) 19.64 · Freie Universität Berlin

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Actionable, long-term stable and semantic web compatible identifiers for access to biological collection objects

FULL TEXT

Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017

DOI: 10.1093/database/bax003

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3rd Gregor Hagedorn [✉](#) 21.73 · Museum für Naturkunde Berlin

Last Gabriele Droege [✉](#) 19.64 · Freie Universität Berlin

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Abstract

With biodiversity research activities being increasingly shifted to the web, the need for a system of persistent and stable identifiers for physical collection objects becomes increasingly pressing. The Consortium of European Taxonomic Facilities agreed on a common system of HTTP-URI-based stable identifiers which is now rolled out to its member organizations. The system follows Linked Open Data principles and implements. [\[link\]](#)

What else?

- “Registry” on the CETAF website
- URI Tester
- CETAF Specimen Preview Profile (CSPP)
- Wallich Catalogue demonstrator
- Publication in *Database*

[CETAF URI TESTER](#) [IMPLEMENTATION](#) [DOCUMENTATION](#) [CONTACT](#)

Enter a URL in the box below and click "Check Now" or click for example: <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc00001> [Submit]

Checking URI format

The test URL has the following components:
✓ The host component is "www.ncbi.nlm.nih.gov"
✓ The path component is "/geo/studies/geoacc00001"
✓ The query component is ""
✓ The fragment component is ""
✓ Format of URL appears OK. Continuing test.

Requesting HTML Format Data

1 Requesting HTML by passing "Accept" header header
2 Requesting HTML by clicking "View" link
3 Requesting HTML by clicking "View" link at <http://www.ncbi.nlm.nih.gov/geo/studies/geoacc00001>

Specimen Preview Profile

Preferred URIs are listed first followed by any distributed URIs that may contain the required values:

CETAF Element	Metadata	RDF resource URI	Resource Expected	Value
Type	Yes	http://purl.org/net/terms#type	False	Pwrcr, Georg August (1715-1765) Ottobrunn vorlauff. (K. Schmid, Mdr.)
Kind of Material	No	http://purl.org/net/terms#type	True	Specimen

[CETAF URI TESTER](#) [IMPLEMENTATION](#) [DOCUMENTATION](#) [CONTACT](#)

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Parsing RDF

CETAF Specimen Preview Profile

Preferred URIs are listed first followed by any distributed URIs that may contain the required values:

CETAF Element	Metadata	RDF resource URI	Resource Expected	Value
Site	Yes	http://purl.org/net/terms#site	False	Pwrcr, Georg August (1715-1765) Ottobrunn vorlauff. (K. Schmid, Mdr.)
Host of Material	No	http://purl.org/net/terms#hostofmaterial	False	http://purl.org/net/terms#specimen
Scientific Name	No	http://purl.org/net/terms#scientificname	False	http://purl.org/net/terms#specimen
Family	No	http://purl.org/net/terms#family	False	http://purl.org/net/terms#specimen

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2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 23

Laurus obtusifolia Lodd.

Taxon: *Laurus obtusifolia*
Authority: Wall.

Specimens: 1 Hide ▲

Museum **Library** **Image** **Print** **Search** **Help** **Logout**

2574 Lauraceae
Laurus obtusifolia Lodd.
Cinnamomum laevigatum (Burm.) Sweet
Cinnamomum laevigatum (Burm.) Sweet Lauraceae
N. Waller cat.no. 2574
DOSA
BSM
Collected: 2016-06-03 14:41:16 UTC

Collection: 2574: *Laurus obtusifolia* Wall.
Page: 23
Site: 2. Dos.
Location: Syntyp.

Actionable, long-term stable and semantic web compatible identifiers for access to biological collection objects

Article in Database The Journal of Biological Databases and Curation 2017(1):box003 - February 2017
DOI: 10.1093/database/baw003

1st Anton Güntsch [ORCID](#) [✉](#) [19.05 - Freie Universität Berlin](#)
2nd Roger Hyam [ORCID](#) [✉](#) [15.35 - Royal Botanic Garden Edinburgh](#)

3rd Gregor Hagedorn [ORCID](#) [✉](#) [21.73 - Museum für Naturkunde Berlin](#) [+ 15](#)
Last Gabriele Droege [ORCID](#) [✉](#) [19.64 - Freie Universität Berlin](#)

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Options for next steps

- More installations.
- Improve Linked Open Data capabilities by linking out to external resources.
- Improve visibility and use of CETAF IDs in external information systems.
- Create CETAF Index for fast searching, improved inference, and high visibility.
- Monitoring availability of redirection mechanisms and validity of response documents.
- Communicating for scientists

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- **Communicating for scientists**

Who and when?

Improved Linked Open Data Capabilities

Paris, Berlin (BGBM), Vienna, Bonn, Berlin (MfN), Meise, Tervuren(?), who else?

CETAF Index

Berlin (BGBM), Berlin (MfN), who else?

- TelCo in May
- Concept by mid of June
- Hackathon in Summer

Communicating for scientists

- Nature: Letters to the Editor
- SPNHC
- Bot. Congress
- TDWG
- Presentations in CETAF Organisations