

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

GBIF | www.gbif.org | Data | News | Community | About

<http://herbarium.bgbm.org/object/B10062701>

Location

Country: INDIA
State: SIKKIM
District: GYANGSI
Village: HONGSAI

Source details

Source: Herbarium Bogoriense (BO)

Occurrence ID: B10062701

Freie Universität Berlin

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Family: LAURACEAE | **Yasunia sessiliflora van der Werff** | Annotate specimen | User guide

Collection: Stable identifier for specimen citations: <http://herbarium.bgbm.org/object/B100457427> | Save as JPG...

Ecuador:
Barcode: B 10 0457427

Storage name: Yasunia sessiliflora van der Werff

Type status: **isotype**

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:lsid: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, Golsun, Sikkim, 5000 ft." - K! (K000077050 [<http://specimens.kew.org/herbarium/K000077050/>]); Doubtful isolectotypes - B! (B 10 0386925 [<http://herbarium.bgbm.org/object/B100386925/>]), P! (P00747534 [<http://coldb.mnhn.fr/catalogue/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 isolectotypes.

CETAF Stable Ids in the wild

- GBIF
- BioCASE

GBIF | www.gbif.org
Data | News | Community | About

<http://herbarium.bgbm.org/object/B10062701>

Location

Source details

COCCIDENTIAE: B
Herbarium Bogoriense
Herbarium Bogoriense
Herbarium Bogoriense
Herbarium Bogoriense
Herbarium Bogoriense

Freie Universität Berlin

VISITUS | WHAT'S ON | THE GARDEN | THE MUSEUM | SCIENCE

Family: LAURACEAE **Yasunia sessiliflora van der Werff** Annotate specimen User guide

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

Barcode: B 10 0457427

Storage name: Yasunia sessiliflora van der Werff

Type status: **isotype**

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
- URI Tester
- CETAF Specimen Preview Profile (CSPP)

CETAF Specimen URI Tester

Enter a URI in the box below and click "Check New" or click for [details](#)
<http://www.cetaf.org.uk/uri-tester/>

Checking URI format

- ✓ The scheme 'http' is correct
- ✓ The host name 'herbarium.garden.org.uk' is correct
- ✓ The path component is 'http://herbarium.garden.org.uk'
- ✓ The URI lacks a query string component which is a good thing
- ✓ Format of URI appears OK. Continuing test

Requesting HTML Format Data

- ✓ Requesting HTML by passing 'http://herbarium.garden.org.uk' to the server
- ✓ Received 200 OK (text/html) IP: 192.168.1.1
- ✓ Found HTML URI: <http://herbarium.garden.org.uk/uri-tester/uri-tester.html>

Requesting RDF Format Data

- ✓ Requesting RDF by passing 'http://herbarium.garden.org.uk' to the server
- ✓ Received 200 OK (application/rdf+xml) IP: 192.168.1.1
- ✓ Found RDF URI: <http://herbarium.garden.org.uk/uri-tester/uri-tester.rdf>

Parsing RDF

CETAF Specimen Preview Profile

Provided URIs are listed first followed by any deprecated URIs that may contain the required values

CSPP Element	Mandatory	RDF resource URI	Resource Exposed	Value
URI	Yes	http://purl.org/dc/terms/title	False	Herbarium Catalogue
Kind of Material	No	http://purl.org/dc/terms/type	True	Specimen

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- ✓ Found RDF URI: <http://herbarium.garden.org.uk/uri-tester/uri-tester.rdf>

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Kind of Material	No	http://purl.org/dc/terms/type	True	Specimen

2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 25

Laurus obtusifolia Wall.

Author: Wall.

Specimens: 3 [View all](#)

Herbarium: Botanic Garden and Botanical Museum Berlin-Dahlem (B) | Botanic Garden and Botanical Museum Berlin-Dahlem (B) | Royal Botanic Garden Edinburgh (E)

Specimen Barcode: <http://herbarium.garden.org.uk/urn:lsid:herbarium.garden.org.uk:urn:lsid:herbarium.garden.org.uk:2574-2574-2574>
<http://herbarium.garden.org.uk/urn:lsid:herbarium.garden.org.uk:urn:lsid:herbarium.garden.org.uk:2574-2574-2574>
<http://data.cps.org.uk/herb/E0093164>

Collection: 2574-4: *Laurus obtusifolia* Wall.

Page: 25

Wall. p. 266.

Location: [View](#)

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):bax003 - 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 Oregor 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 IMPLEMENTATIONS DOCUMENTATION CONTACT

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Parsing RDF

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CSPP Element	Mandatory	RDF resource URI	Resource Exposed	Value
Site	No	http://www.cetaf.org.uk/	False	http://www.cetaf.org.uk/
Kind of Material	No	http://www.cetaf.org.uk/uri-tester/	True	Specimen

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2574: *Laurus obtusifolia* Wall.

Entry: 2574
Page: 25

Laurus obtusifolia Wall.

Thesaur: *Laurus obtusifolia*

Authority: Wall.

Specimens: 3

Herbarium: Botanic Garden and Botanical Museum Berlin-Dahlem (B) | <http://nbn-resolving.org/urn:nbn:de:hbz:5:1-64277-p0100-9>
 Botanic Garden and Botanical Museum Berlin-Dahlem (B) | <http://nbn-resolving.org/urn:nbn:de:hbz:5:1-64277-p0100-9>
 Royal Botanic Garden Edinburgh (E) | <http://idnra.rdg.ac.uk/ark:/61906/3:1:1Q16-1/164>

Specimen Barcode: <http://nbn-resolving.org/urn:nbn:de:hbz:5:1-64277-p0100-9>
 Stable URI: <http://nbn-resolving.org/urn:nbn:de:hbz:5:1-64277-p0100-9>

Collection: 2574-4: *Laurus obtusifolia* Wall.

Page: 25

Wall. p. 266.

Location:

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- Wallich Catalogue demonstrator
- Publication in *Database*

CETAF Specimen URI Tester

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<http://www.cetaf.org.uk/uri-tester/>

Checking URI format

- ✓ The scheme 'http' is correct
- ✓ The host has the domain name of 'data.jhu.edu'
- ✓ The path component is '/index.php?id=1309'
- ✓ The URI lacks a query string component which is a good thing
- ✓ Format of URI appears OK. Continuing test

Requesting HTML Format Data

- ✓ Requested HTML by passing 'Accept: text/html' header
- ✓ Received 200 OK/HTML 111 IP: 1309
- ✓ Returned HTML

Requesting RDF Format Data

- ✓ Requested RDF by passing 'Accept: application/rdf+xml' header
- ✓ Received 200 OK/HTML 111 IP: 1309
- ✓ Returned HTML

Parsing RDF

CETAF Specimen Preview Profile

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CSPP Element	Mandatory	RDF resource URI	Resource Exposed	Value
Site	No	http://data.jhu.edu/uri-tester/	False	http://www.cetaf.org.uk/uri-tester/
Kind of Material	Yes	http://data.jhu.edu/uri-tester/	True	Specimen

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Entry: 2574
Page: 23

Specimens: 3 [View all](#)

Herbarium

Herbarium	Specimen Barcode	Stable URI
Botanic Garden and Botanical Museum Berlin-Dahlem(S)	B030279115	http://herbarium.jhu.edu/uri-tester/2574-115
Botanic Garden and Botanical Museum Berlin-Dahlem(S)	B030279116	http://herbarium.jhu.edu/uri-tester/2574-116
Royal Botanic Garden Edinburgh(E)	EN093154	http://data.jhu.edu/uri-tester/2574-154

Collection: 2574-4: *Laurus obtusifolia* Wall.

Page: 23

Wall. P. 266.

Location: [View](#)

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

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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