



IndExs

- Index of Exsiccatae -

Dagmar Triebel & Peter Scholz

Exsiccata, ae

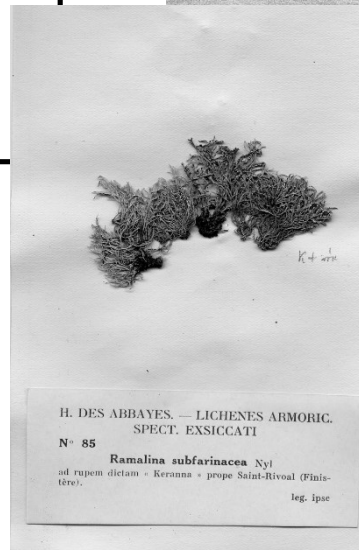
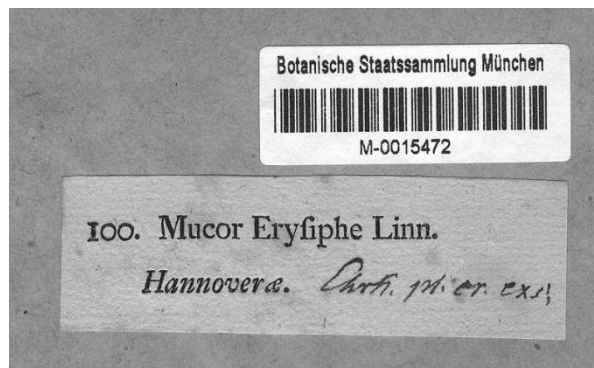
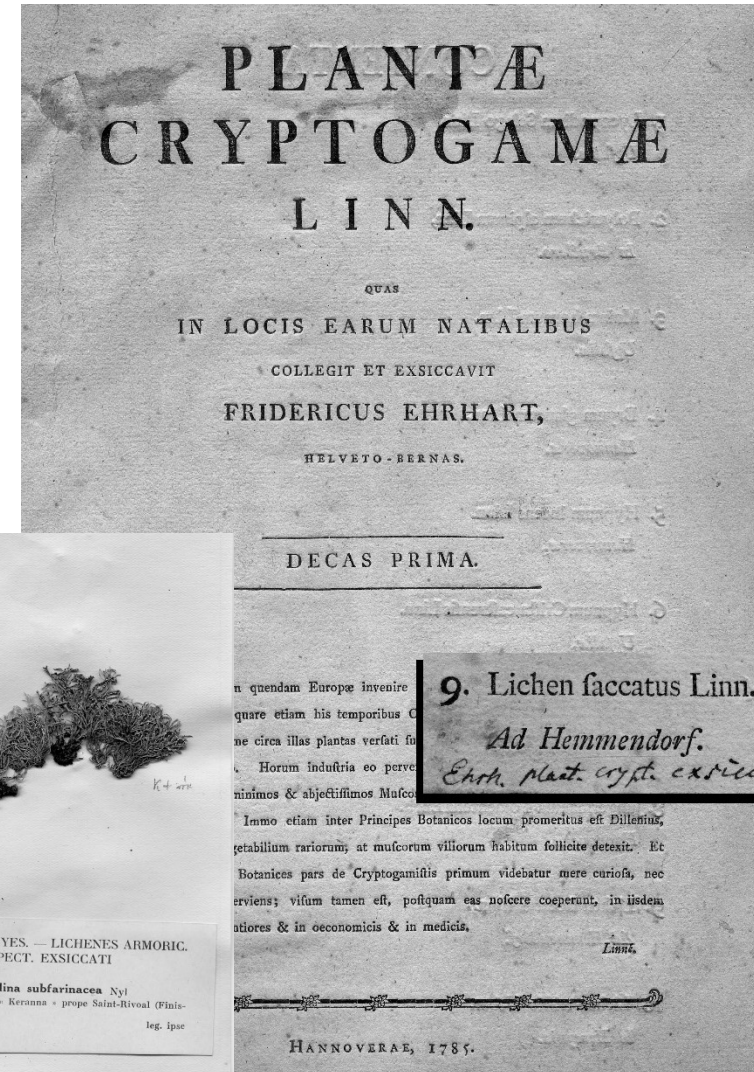
- Exsiccatae are "published, uniform, numbered sets of preserved specimens distributed with printed labels" (Pfister 1985).

The latin term: "exsiccata, ae" is feminine and used for a set of dried published (!) specimens, whereas the term "exsiccatum, i" is neutral and used for dried specimens in general



Exsiccata, ae

- More than **2,100** series known
- The eldest started anno 1732: J. B. Ehrhart, *vivum recens collectum* (Ulm)
- Some herbaria house the historical series in their original condition.
- Most herbaria divided the original volumes by cutting and distributed the specimens in their collections.



Exsiccata, ae

- Some exsiccatae are distributed with only few numbers; some other series are famous with thousands of numbers published by one herbarium; e.g., with similar title over more than 80 years (s. example Krypt. Exs.)

Cryptogamae exsiccatae editae a Museo Hist. Natur. Vindobonensi

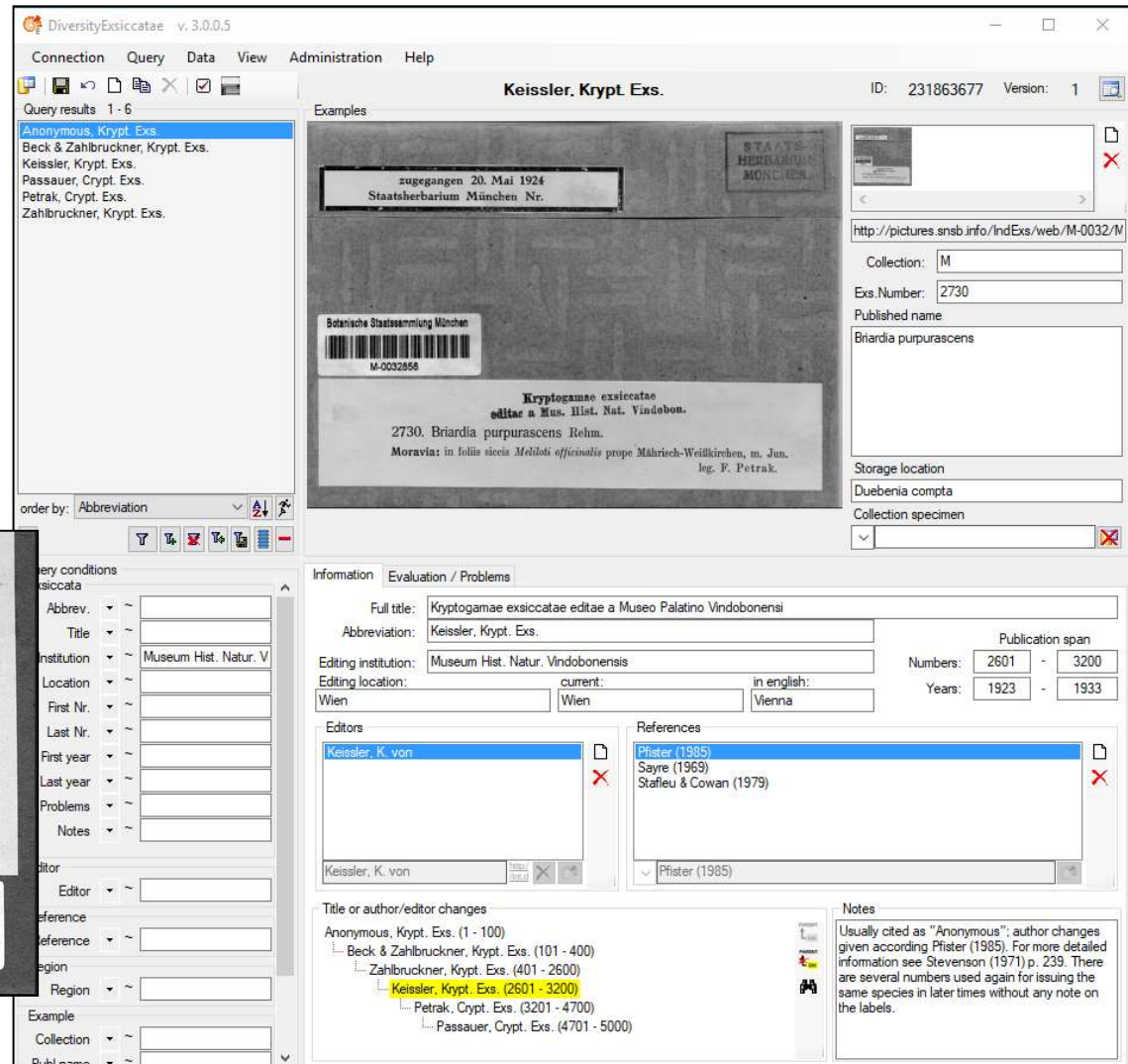
4829. *Leveillula malvacearum* GOLOV.
f. *althaeae* (JACZ.)GOLOV.

Afghanistan, Prov.Kabus: obere Tang-i-Gharu, ca 1 km vom westl. Eingang.
SH. 1750 m (69°27'E., 34°33'N.)

Matrix: *Althaea nudiflora* LINDL.

Steiniger Steppenhang neben Straße.

14.6.1970 M.Steiner, Iter afghanicum 1970
leg. D.Podlech et M.Steiner
det. W.Brandenburger

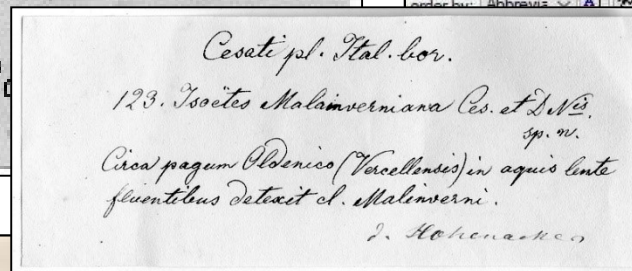
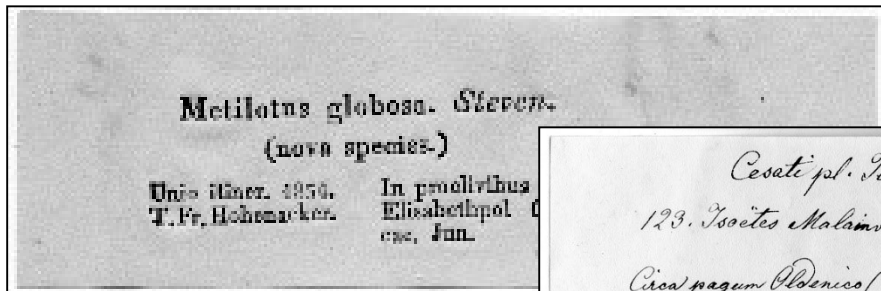


The screenshot shows the DiversityExsiccatae v. 3.0.0.5 interface. The main window displays a record for 'Keissler, Krypt. Exs.' with ID 231863677 and Version 1. The record details include the full title 'Kryptogamae exsiccatae editae a Mus. Hist. Nat. Vindobon.', the abbreviation 'Keissler, Krypt. Exs.', and the editing institution 'Museum Hist. Natur. Vindobonensis'. The publication span is from 1923 to 1933. The record is associated with the 'Botanische Staatssammlung München' and has a barcode label M-0032856. The interface also shows a list of references, including Pfister (1985), Sayre (1969), and Stafleu & Cowan (1979). A notes section at the bottom right mentions that the species is usually cited as 'Anonymous' and provides further information on its history.

Exsiccata, ae



- Some editors were highly productive.
- R. F. Hohenacker, e.g., published 34 series with more than 18,000 numbers between 1831 and 1875



DiversityExsiccatae v.3.0.0.5

Connection Query Data View Administration Help

Hohenacker, Riedel Pl. Brasil. ID: 2147199788 Version: 2

Query results 1 - 34

Examples

http://pictures.snsb.info/IndEx

Collection: FR

Exs.Number: 2191

Published name: Papalanthus (Dimeranthus)

Storage location: Papalanthus flaccidus

Collection specimen

Information Evaluation / Problems

Full title: Hohenacker, Riedel Pl. Brasil.

Abbrivation: Hohenacker, Riedel Pl. Brasil.

Printing institution: Hohenacker, Riedel Pl. Brasil.

Numbers: 1 - 7

Years: 1 - 7

Editing location: current: en glis h:

Editors: Hohenacker, R.F.

References: Hohenacker

Title or author/editor changes: Hohenacker, Riedel Pl. Brasil. (? ->2190)

Notes

Last Nr. ~

First year ~

Last year ~

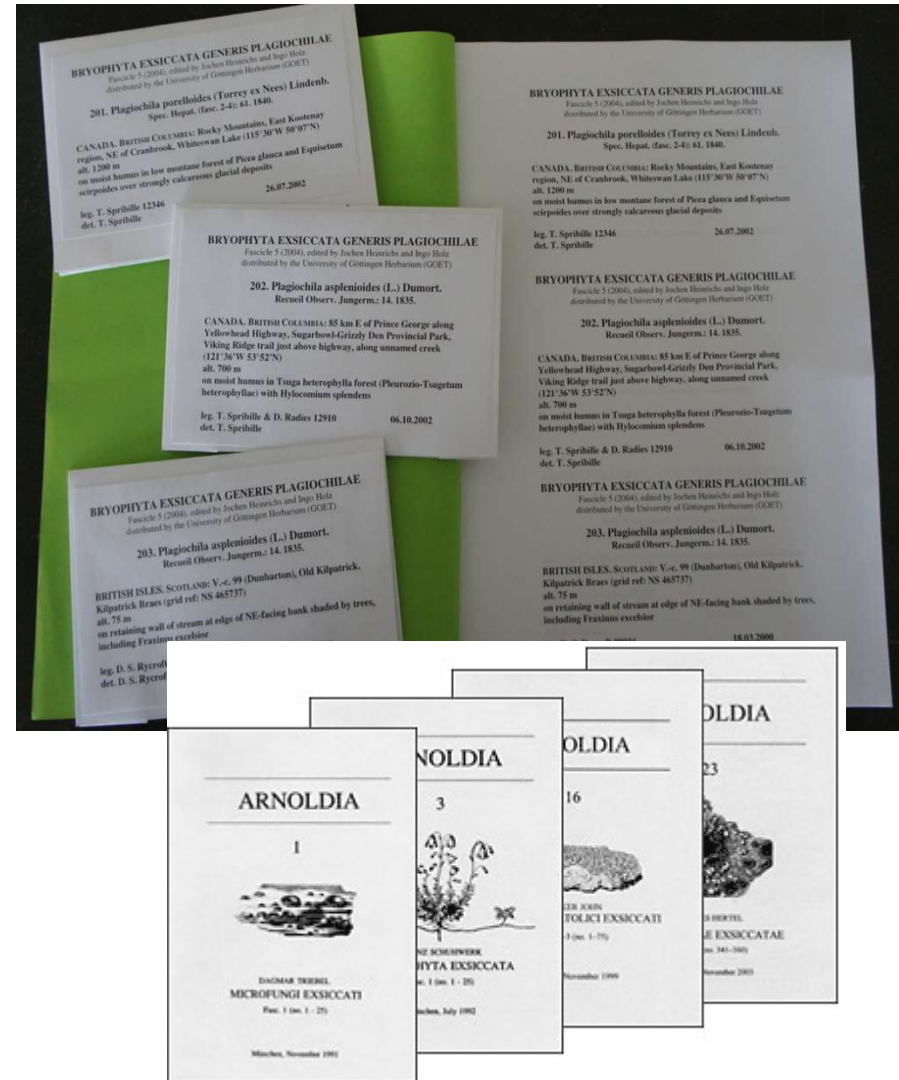
Problems ~

Notes ~

Editor: Editor ~

Reference: Reference ~

- The exsiccatal system is most relevant as reference system in botany and mycology.
- It has explicit rules in the ICN.
- More than 60 series are running and are part of the herbarium exchange programs of major herbaria.
- Some series are distributed in an edition of < 10 exemplars, very few with ~ 100 exemplars (i.e. ~ 100 duplicates per sample number).
- Estimated **20 million specimens** could be assigned to exsiccatal series.



DiversityExsiccatae (DE)

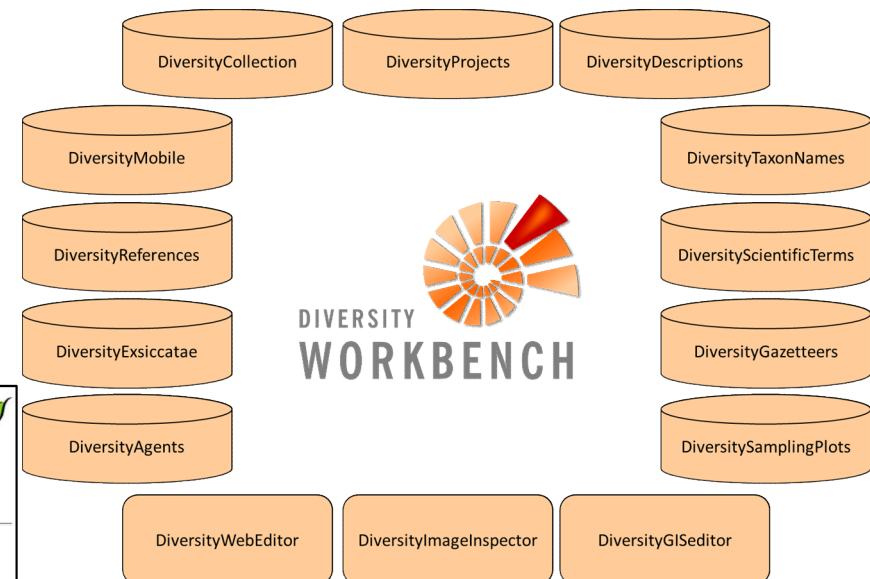
- Is a module of the Diversity Workbench (DWB) database system (www.diversityworkbench.net) and part of the DWB cloud services.
- IndExs is the browser-based web interface for search and download of content of DiversityExsiccatae.



The screenshot shows the IndExs web interface. At the top, it says "IndExs" and "IndExs - Index of Exsiccatae" with a logo. Below that are links for "[About]" and "[Web Service]". The main section is titled "Search" and contains a form with the following fields and options:

- "Select the editor" with a dropdown menu showing "any editor".
- "and / or type the title (part of the title)" with a text input field.
- "and / or select the group of organisms" with a dropdown menu showing "any group".
- Radio buttons for "all exsiccatae" (selected), "exsiccatae with images", and "exsiccatae without images".
- "Reset" and "Get exsiccatae" buttons.

At the bottom, there is a small footer: "SNSB IT Center Imprint - Disclaimer" and "© Botanische Staatssammlung München 2001-2018. All rights reserved."



Number of series, downloads



Diversity Exsiccatae and IndExs in numbers

- 2,173 series, 1,490 with images
- 916 spermatophytes
- 726 fungi, lichens
- 530 bryophytes
- Other categories (algae, pteridophytes, zoocecidia, mines)

IndExs – Index of Exsiccatae

[\[About\]](#) [\[Web Service\]](#)

Search

Select the editor

and / or type the title (part of the title)

and / or select the group of organisms

all exsiccatae
 exsiccatae with images
 exsiccatae without images

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Search result

Abbreviation
Abbayes, Lich. Armor. Exs.
Abbayes, Lich. Armor. Exs.
Abbayes, Lich. Gall. Exs.
Abbayes, Lich. Madagascar. Borb. Exs.
Adamović, Pl. Balcan. Exs.
Afonina, Bryoph. Ross. Civit. Collimit. Exs.
Afonina, Czernyadjeva, Doroshina & Kurbatova, Bryoph. Ross. Civit. Collimit. Exs.
Afonina, Czernyadjeva, Kurbatova & Kuzmina, Bryoph. Ross. Civit. Collimit. Exs.
Afonina, Czernyadjeva & Kurbatova, Bryoph. Ross. Civit. Collimit. Exs.
Afonina, Czernyadjeva & Kuzmina, Bryoph. Ross. Civit. Collimit. Exs.
Afonina & Czernyadjeva, Bryoph. Ross. Civit. Collimit. Exs.
Agnew & Chalbi-Ka'bi, Exs. Herb. Baghdad.
Aigret & François, Herb. Muscinées Belg.
Åkermark, Typ-Saml. Skand. Alger
Allen, Brit. Charoph.
Allen, Characeae Amer. Exs.
Allen, Characeae Amer. Exs.
Allen, Characeae Japon. Exs.
Allen, Charoph. Ind.
Allen, Fl. Cascade Mount.

2,173 items found, displaying 1 to 20.
[Pages:] [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#), [8](#), [9](#), [10](#), [11](#), [12](#), [13](#), [14](#), [15](#), [16](#), [17](#), [18](#), [19](#) [Next />>]
Export options: [csv](#) | [xls](#) | [xml](#)

IndExs: bibliography of exsiccatae (=exsiccatal series)

- Editors
- Title and standard abbreviation
- Editing institution/ publisher
- Time span and numbers
- Categorization
- Stable and Persistent Exsiccata ID
- Preceding and superseding series
- Exemplary image(s)
- References



IndExs – Index of Exsiccatae



Editor(s): Heinrichs, J.; Holz, I.
 Title: Bryophyta exsiccata generis Plagiochilae
 Abbreviation: Heinrichs & Holz, Bryoph. Exs. Gen. Plagiochilae
 Editing Institution: University of Göttingen Herbarium (GOET)
 Place of publication: Göttingen
 First number: 101 First issue: 2002
 Last number: 250 Last issue: 2004
 Group(s) of Organisms: bryophytes
 ExsiccataID: 526888704

preceded by
 superseded by

[New search](#)



No. 105: *Plagiochila superba* (example from JE)



No. 201: *Plagiochila porelloides* (example from M)

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IndExs

- SOAP Web Service (since 2007)
- REST Web Service (in planning stage)
- Service for use in DWB network for collection digitisation



IndExs – Web Service



The IndExs Web service is a web program that enables developers to access IndExs via the Simple Object Access Protocol (SOAP). Programmers may write software applications that access IndExs using any SOAP development tool.

The service has been tested with

- SOAP Message Console Eclipse Plugin
- Java (Apache Axis 2.0)
- SOAP Monitor
- C# and Visual Basic in MS Visual Studio .NET.

Service WSDL : <http://www.snsb.info/axis2/services/IndExsService?wsdl>

Service EPR : <http://www.snsb.info/axis2/services/IndExsService>

Service REST epr : <http://www.snsb.info/axis2/rest/IndExsService>

Service Description : IndExsService

Service Status : Active

Available Operations

- SearchExsiccataeEditors
- SearchExsiccataeTitles
- SearchByExsiccataID

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Collection digitisation



The screenshot displays the DiversityCollection v. 3.0.8.9 software interface. The main window shows specimen details for *Pleochaeta polychaeta* (Berk. & M. A. Curtis) Kimbr. & Korf, with accession number M-0013603. A photograph of the specimen label is visible, featuring a barcode and text: "Botanische Staatssammlung München", "M-0013603", and "Ellis & Everhart, North American Fungi. Second series. 2113. *Uncinula polychaeta*, B. & C. Gen. N. sp. nov. on leaves of *Celtis occidentalis*. Barkville, Miss. Oct. 1886." A metadata window is open, showing the following information:

Field	Value
Abbreviation	Ellis & Everhart, N. Amer. Fungi. Ser. II
Title	North American fungi. Second series
E.Editing institution	Starkville, Oktibbeha, Missis
E.Editing location	Newfield (N.J.)
Numbers	1501 - 3600
Years	1886 - 1898
Editors	Ellis, J.B., Everhart, B.M.

The interface also includes a search filter for "Project" set to "BSMeryscoll", a list of specimen IDs on the left, and a detailed metadata panel on the right with fields for Type, IPR, Prop., EXIF, Title, Unit, Part, and Note.

Ongoing cooperations



- Cooperation with **41** herbaria for images

ASU, B, BM, BOUM, BR, BRIX, BUCM, CUP, DR, DUKE, E, F, FH, FR, G, GOET, GZU, H, HAL, IB, IBF, JE, K, KR, LD, M, MICH, MO, MSB, NEB, NMW, PH, PRC, S, STU, TENN, TU, UC, UPS, WIS and YU

IndExs IndExs – Index of Exsiccatae

Editor(s): Anonymous
 Title: Société pour l'étude de la flore Franco-Helvetique
 Abbreviation: Anonymous, Soc. Fl. Franco-Helvetique
 Editing Institution: Société pour l'étude de la flore Franco-Helvetique
 First number: 223 First issue: 1893
 Last number: 2000 Last issue: ?
 Notes: This series is not regarded as exsiccata in its strong sense. Material was collected by several

No. 1501: *Alchimilla [sic] fallax* (example from JE)

No. 1092: *Galium pedemontanum* (example from PRC)

IndExs IndExs – Index of Exsiccatae

Editor(s): Åkermark, S.
 Title: Typ-Samling af Skandinaviens alger innehållande 100 arter
 Abbreviation: Åkermark, Typ-Saml. Skand. Alger
 Place of publication: Göteborg
 First number: 1 First issue: 1870
 Last number: 100 Last issue: 1870
 Information source(s): Sayre (1969) Stafleu & Cowan (1976)
 Group(s) of Organisms: algae/cyanobacteria
 ExsiccataID: 1395745151

No. 16: *Lemanea fluviatilis* (example from UPS)

[New search](#)

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Ongoing cooperations



- **Symbiota** Portals of Consortium of North American Herbaria, iDigBio repository

Consortium of
NORTH AMERICAN BRYOPHYTE HERBARIA

Home Explore About Data Usage Crowdsourcing Flora Projects Other Resources

Home >> **Exsiccati Index**

Exsiccati

- American Hepaticae, Carolyn Coventry Haynes [1 - 120]
- Bouquet de Cryptogames Rapporte des Iles de l'Ocean Pacifique par J. Rémy, Casimir Roumeguère
- Bryophyta Arctica exsiccata, Steere, W.C.; Holmen, K.A. [1 - 50]
- Bryophyta Arctica exsiccata, Steere, W.C.; Holmen, K.A.; Mogensen, G.S. [51 - 100]
- Bryophyta Canadensis, Schofield, W.B. [1-175]
- Bryophyta Danica Exsiccata, Holmen [1 - 474]
- Bryophyta Exsiccata, Z. Iwatsuki & M. Mizutani [1-200]
- Bryophyta exsiccata Terrae-Novae et Labradoricae, Brassard, G.R. [1 - 250]
- Bryophyta Hawaiica Exsiccata, William J. Hoe [1 - 120]
- Bryophyta Neotropica Exsiccata, Gradstein [1 - 400]
- Bryophyta Selecta Exsiccata, Hiroshi Inoue [1 - ? 1000]
- Bryophyta Vogesiaca Exsiccata, Jan-Peter Frahm [1-200]
- Bryophytae selectae ex Herbario Haussknecht., Hans-Joachim Zimdorf [1 - 250]
- Bryophytes [31 - 377]
- Bryophytes Coll. By R. & I. Duell, Duell [Jan-43]
- Bryophytes of Asia, H. Deguchi, T. Yamaguchi [76-350]
- Bryophytorum Typorum Exsiccata. New York, William R. Buck [Jan-40]
- Bryotheca Bohemica. Laub- und Lebermoose aus Böhmen in getrockneter Bauern [1 - 400]
- Bryotheca Brasiliensis, E. Ule [241 - 298]

IndExs IndExs – Index of Exsiccatae



Editor(s): Macoun, J.
Title: Ex Herb. Geological Survey of Canada: International Boundary Commission

Abbreviation: Macoun, Herb. Geol. Surv. Canada

First number: ? First issue: ~ 1905

Last number: ? Last issue: ~ 1905

Information source(s): Consortium of North American Bryophyte Herbaria: <http://bryophyteportal.org/portal/> Sayre (1971)

Group(s) of Organisms: bryophytes



No. 7: *Ptildium ciliare* (example from YU)

MYCOLOGY COLLECTIONS PORTAL

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Home >> **Exsiccati Index**



Exsiccati

- 100 Specimens of British Leaf-Fungi, M.C. Cooke
- A Century of Illustrative Fungi with Generic Synopses of the Basidiomycetes and Myxomycetes, L.M. Underwood [1-100]
- A Collection of Dried Plants, Named on the Authority of the Linnaean Herbarium and Other Original Col., J. Dickson [1-100]
- A Set of English Agarics Collected and Mounted by Mr. Ch. E. Harkey-Smith (Fasc.1-4), C.E. Harkey-Smith [1-82]
- Ascomyceten, H. Rehm [1-2175, plus extras]
- Ascomycetes and Lower Fungi, G.W. Wilson and F.J. Seaver [1-100]
- Beiträge zur Mecklenburgischen Pilzflora [Heft 1-3], C.F.B. Fielder [1-157]
- Bermuda Fungi, H.H. Whetzel and J.M.L. Waterston [1-200]
- British Fungi, M.J. Berkeley [1-350]
- British Fungi, Mycologia Britannica, P.B. Ayres [1-100]

Cooperation with CETAF, DiSSCo, EU projects Horizon 2020


- Extension of technical services, e.g. REST, for more comfortable access to the stable IndExs exsiccata identifiers
- Inclusion of new services, e. g. by direct linking of references (..BHL) and original schedae publications
- Continuation of enrichment and improvement of bibliographic content; new series
- Continuation of imaging efforts together with CETAF institutions (for more than 600 series images are lacking!)

Exsiccatae are an European invention!



IndExs – Index of Exsiccatae


Editor(s):	Allen, T.F.		
Title:	Characeae Japonicae exsiccatae distributae a T. F. Allen M.D.		
Abbreviation:	Allen, Characeae Japon. Exs.		
First number:	1	First issue:	1895
Last number:	17 plus ?	Last issue:	1895
Information source(s):	Sayre (1969) Stafleu & Cowan (1976)		
Notes:	There are 17 numbered specimens and several unnumbered additional specimens. According to Hertel & Schreiber (1988) not in M, but at least two of the later issued unnumbered specimens had been found (see image from M).		
Group(s) of Organisms:	algae/cyanobacteria		
ExsiccataID:	648635392		

[New search](#)



No. : *Nitella capitulifera*
(example from M)




No. 9: *Nitella japonica*
(example from BM)

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Thank you!





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The [Index of Exsiccatae](#) is a [diverse](#) [collection](#) of [herbarium](#) [specimens](#) and [M. Weiß](#), a JSP webinterface and a SOAP [web service](#) by A. R. Lakehsar. Currently "IndExs" is maintained and expanded by staff members of the [Botanische Staatssammlung München \(M\)](#) as part of the [Mycology.Net](#) project. For historical aspects concerning exsiccatae and data analysis based on "IndExs" see [Triebel et al. \(2004\)](#).

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