

Enriching and improving access to herbarium specimen data using **new tools in online Symbiota data portals**



July 28, 2025





What's Symbiota?

What's New?

What's Next?

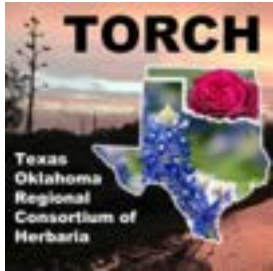


What's Symbiota?

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60+ community portals



SERNEC

Southeast Regional Network of Expertise and Collections



CONSORTIUM OF LICHEN HERBARIA

building a Global Consortium of Bryophytes and Lichens as keystones of cryptobiotic communities

Algae Herbarium Portal

A consortium of algae collections

MYCOLOGY COLLECTIONS PORTAL

<https://symbiota.org/symbiota-portals/>

[Home](#) >> [Search Criteria](#) >> Specimen Records

Species List

Occurrence Records

Maps

Dataset: All Collections

Search Criteria: San Luis Obispo; includes cultivated/captive occurrences



1234567891011 >> Last

Page 5, records 401-500 of 2129



Orthotrichum rupestre Schleich, ex Schwägr.

SFSU-B-002958 L. Sigal L.S. 169 1973-06-17
United States, California, San Luis Obispo, Cuesta Ridge Botanical Area
[Full Record Details](#)



Brachythecium velutinum (Hedw.) Schimp.

SFSU-B-000559 L. Sigal L.S. 155 1972-12-27
United States, California, San Luis Obispo, Cuesta Ridge Botanical Area
[Full Record Details](#)



Fissidens crispus Mont.

MT00198558 Allen, Oscar D. sn 1899-03-10
United States of America, California, San Luis Obispo County, Arroyo, California
[Full Record Details](#)



Antitrichia californica Sull. ex Lesq.

ISC0808873 W.W. Bennett 1944-07-03



Home
Hide Panel

Search Criteria

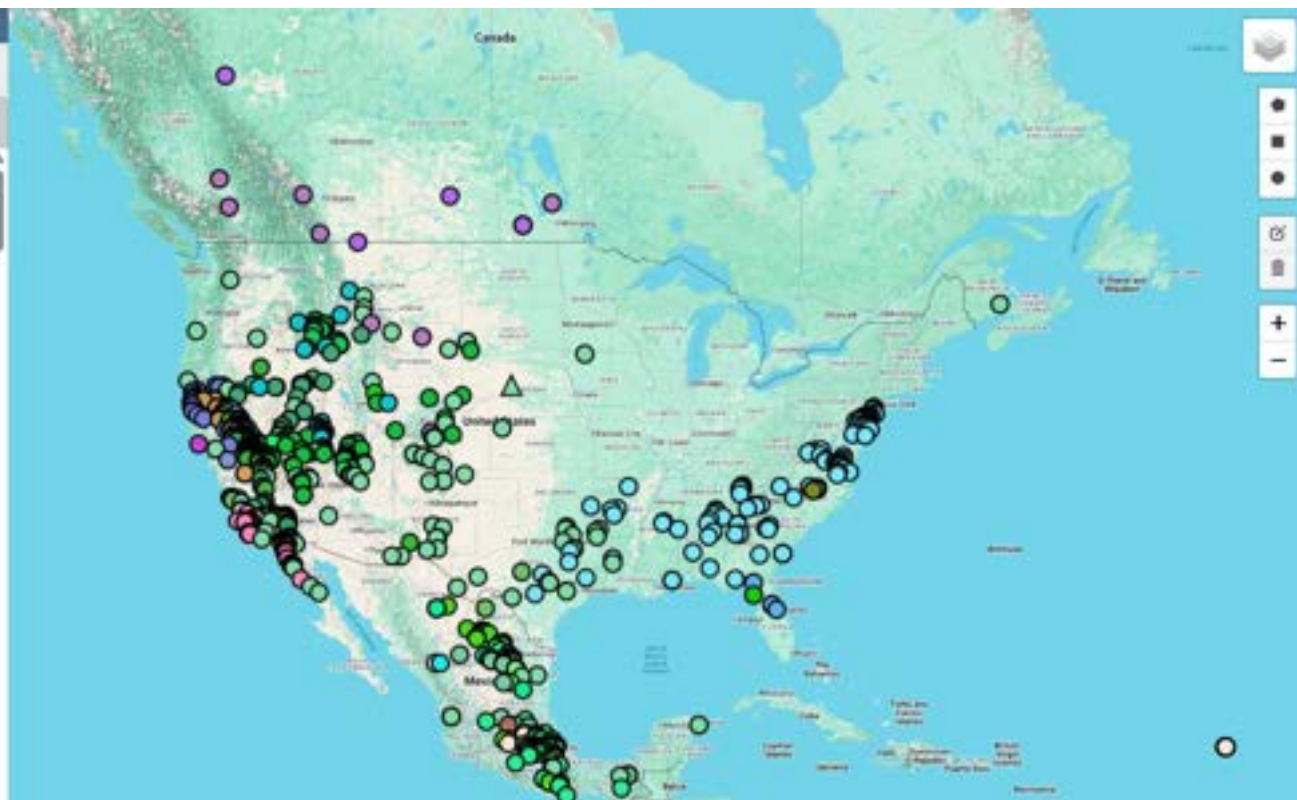
Records and Taxa

Records
Collections
Taxa List

Download
KML
CO

1 2 3 4 5 6 7 8 9 10 11 >> Last
Page 1 records 1-100 of 1106

Catalog Number	Collector	Date	Scientific Name	Map Link
N/A	Brigitte Hogan 315	2004-06-24	<i>Stipa purpurea</i>	
N/A	Brigitte Hogan 111	2004-07-09	<i>Stipa breviflora</i>	
ASU0016053	James Henrickson 13599	1973-09-27	<i>Stipa alta</i>	
ASU0016056	E. Ventura Y. 2154	1984-06-15	<i>Stipa clandestina</i>	
ASU0016057	E. Ventura Y. 564	1983-02-23	<i>Stipa clandestina</i>	
ASU0016062	J. A. Villarreal 2056	1990-06-05	<i>Stipa editorum</i>	
	J. A. Villarreal 16606	1990-	<i>Stipa</i>	



Mission Trails Regional Park Vascular Plant Checklist

Taxa explicitly excluded: [Mission Trails Regional Park - Doubtful or Omitted Records](#)

Authors: Michael G. Simpson

[more detail](#)

Families: 111

Genera: 380

Species: 613

Total Taxa: 634

Page 1 of 2: 1 | 2

AGAVACEAE

Hesperoyucca whipplei (Torr.) Trel. - Chaparral Yucca

NATIVE; White, Samantha M. 23 [SDSU], Stirling, Brian S. 6 [SDSU], Cain, Ian 811 [SDSU], Cabrero, Allan 4 [SDSU], more...

Hooveria parviflora (S. Wats.) D.W.Taylor & D.J.Keil - Small-Flower Soap-Plant

NATIVE; Millie Basden-Thomas 126 [SD]

Yucca schottlandii Roez. ex Ortgies - Mohave Yucca

NATIVE; Simpson, Michael G. 3656 [SDSU]

AIZOACEAE

Conoclinium chinensis (Molina) M.E. Br. - San Eli

Options

[Games](#)

Search: Taxon Filter

☐ Search Common Names

☒ Search Synonyms

Taxonomic Filter:

Original Checklist

☐ Display Synonyms

☒ Common Names

☐ Display as images

☒ Notes & Vouchers



CCH2

Specimen data from the Consortium of California Herbarium

Occurrence Editor: Arizona State University Vascular Plant Herbarium (ASU:Plants)

[Home](#) >> [Collection Management](#) >> [Public Display](#) >>

[Toggle Record Search Form](#)

Occurrence Data

Determination History

Media

Linked Resources

Traits

Admin

Collector Info

Catalog Number *

ASU0016072

Tag Name (optional) *

Additional Identifier Value

45333

Collector / Observer *

E. Arrington

Number *

Date (start) *

End Date *

1984-08-16

Duplicates

☐ Auto search

Associated Collectors *

Verbatim Date *

Exsiccata Title

Number

Latest Identification

Scientific Name *

Stipa ichu

Author *

(Ruiz & Pavón) Kunth

Identification Qualifier *

Family *

Poaceae

Identified By *

Arrington

Date Identified *

Locality

Country *

Mexico

State/Province *

Distrito Federal

County *

Municipality *

Location ID *

Label Processing

Zoom?



Rotate: ☐ L ☒ R

☒ Med Res.

☐ High Res.



Tesseract OCR

☐ OCR whole image

☐ OCR w/ analysis

OCR Image

Image 1 of 1



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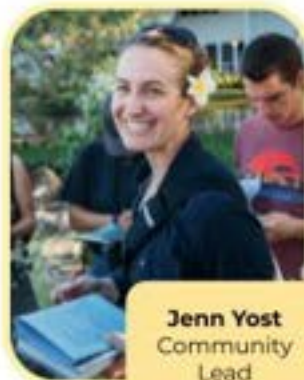
What's Symbiota?

What's New?

What's Next?

- **Affiliation**
- Sustainability
- Portals
- Features

Symbiota Support Hub Team



Jenn Yost
Community
Lead

Katie Pearson
Project & Data
Manager



Greg Post
IT & System
Administrator



Ed Gilbert
IT Lead



Samanta Orellana
Community Coordinator
for Latin America



Lindsay Walker
Community
Manager



Nico Franz
Management @ KU



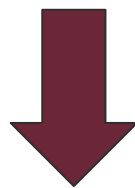
Logan Wilt
Developer



Mark Fisher
Developer



**Nikita
Salikov**
Developer







What's Symbiota?

What's New?

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- Affiliation
- **Sustainability**
- Portals
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2011 - 2026

(September)





2011 - 2026

(September)



Symbiota sustainability efforts

— — —

- Service contracts
 - Have a data or development need? Contract with the Symbiota Support Hub!

KU Symbiots

Symbiota is specifically designed for efficient and collaborative digitization as a collections management system, and as an open data exploration and publishing tool. To date, over 50 Symbiota portals have been used to mobilize 90 million biological specimen records from 1,800 collections worldwide.

DATA PORTAL SERVICES

KU Symbiota provides products and services related to the digitization and management of biocollections, as well as the maintenance and development of related software and IT infrastructure. For general and service inquiries

[VIEW AS GALLERY PAGE](#)

Abdomen

Definition: In aplousobranch species, the region of zooid posterior to the thorax (containing the pharynx), when the zooid is divided into two or three body regions. Sometimes there is a constriction between the thorax and the abdomen. The abdomen includes the digestive tract and in some with only



<https://biodiversity.ku.edu/symbiota-support-hub>

Services & Rates

All rates listed are in USD and subject to change. Rates for KU-based and for-profit clients may differ.

Hosting: Data Portals & Images

Services: Storing and serving web-ready images related to biodiversity records, including linkage to external systems, where applicable

Rates: \$2.00/GB/year (nonprofit discounts available)



Symbiota sustainability efforts

— — —

- Service contracts
- Grants

Symbiota sustainability efforts

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- Service contracts
- Grants
 - Please include portal maintenance funds in your grant proposals!

Symbiota sustainability efforts

— — —

- Service contracts
- Grants
- Donations



bit.ly/supportsymbiota



[Give to KU](#) > [Payment](#) > [Review](#) > [Finish](#)

Choose a gift amount

\$1000

\$500

\$250

\$100

Other amount:

\$

[Give Now](#)

[Scheduled Payments*](#)

[Ongoing Gift**](#)



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Biocollections of the USDA Agricultural Research Service



U.S. National Arboretum Herbarium (NA)

Pressed, dried plant specimens documenting USDA research and



U.S. National Seed Herbarium (BARC)

Extensive reference collection of preserved seed and fruit samples



U.S. National Fungus Collections (BPI)

The Western Hemisphere's largest fungarium, including the John A.

<https://biocollections.ars.usda.gov/>

<https://digiherb.symbiota.org/>

DIGIHERB
Consortium of Northwest Europe Herbaria

Home Search + About + Media Inventory Projects Crowdsourcing Data Use Portal Help Sitemap My Profile Sign Out

Welcome to the DigiHerb portal

The DigiHerb portal, developed for the Consortium of Northwest Europe Herbaria (CONNEH), provides access to herbarium specimen data from member institutions, with a general focus on specimens collected in the region and around the world. CONNEH originated from the [DigiHerb](#) project, an EU co-funded collaboration between the National Herbarium of Ireland (IHH), Staatliches Museum für Naturkunde Karlsruhe (SM), and Ghent University (GENT). The project aims to empower smaller regional herbaria in Northwest Europe to digitize, manage, and share their collections efficiently, ensuring their long-term preservation and accessibility.

At DigiHerb, we recognize herbarium digitisation as an essential tool for preserving botanical heritage, advancing biodiversity research, and informing conservation policies. By making plant specimens globally accessible, digitisation enhances collaboration among stakeholders and supports species conservation in the face of global change. The DigiHerb initiative exemplifies the power of shared resources, optimizing costs while ensuring data interoperability and accessibility. We encourage policymakers, biodiversity managers, and researchers to actively use and integrate digitised herbarium data in their work to drive informed decision-making and innovative research, while also promoting its use in



Biocollections of the USDA Agricultural Research Service



U.S. National Arbo
Herbarium (NA)

Pressed, dried plant
documenting USDA

Diatom Herbarium



Home Search Map Search Data Use Synbiota Help Resources + Sitemap

The Diatom Herbarium of the Academy of Natural Sciences of Drexel University, one of the largest in the world, houses over 260,000 slides, of which about 5,000 are types, including both fossil and modern diatoms collected from fresh, brackish, and marine habitats. In addition to its world coverage and its inclusion of fossil diatoms, the herbarium has an extensive record of materials collected as part of freshwater environmental surveys from throughout the United States. These surveys were the work of the former Department of Limnology, and its successor, the Academy's Phycology Section of the Patrick Center for Environmental Research. Often extending over decades, these surveys offer a unique resource for the study of long-term changes in diatom populations and ecology.

The core research collection is a compilation of smaller collections founded in the nineteenth and early twentieth century by amateur diatomists. Many additional collections were donated by diatomists from all over the world.

The Diatom Herbarium contains many special collections named after the diatomist who put the collection together. These collections were given to the Diatom Herbarium by the diatomist, or by their family. Several collections include slides and/or materials of other diatomists, or the collections may have been part of a larger collection of another individual.

Special Collections of the Diatom Herbarium

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mbiota.org/

https://bi

Portal Help Sitemap My Profile Sign Out





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- **Features**

New Symbiota tools

- Support for audio files



Species List

Occurrence Records


Maps

Dataset: All Collections

Search Criteria: Kakamega Forest; excluding cultivated/captive occurrences

1

Page 1, records 1-29 of 29



ANSP:ORTH

Brachytrupes


ANSP-ENT-143711-side_a_clip2



Dan Otte

1987-00-00

Kenya, Kakamega Forest; "This is number 9", 0.255357 34.867788

[Full Record Details](#)





New Symbiota tools

- Ability to search by “associations” (linked resources)



**Agricultural
Research
Service**

ASSOCIATIONS ?

Find all occurrences of taxa that have the following association:

Association Type

hasHost

with the following taxon:

Taxon

Taxon type

Scientific name

☒ Associations-include Synonyms

New Symbiota tools

- Support for cultivars and trade names in taxonomic thesaurus



**Agricultural
Research
Service**

Add New Taxon

Taxon Rank *:	<input type="text" value="Cultivar"/>
Genus Name *:	<input type="text"/>
Specific Epithet:	<input type="text"/>
Infraspecific Epithet:	<input type="text"/>
Author:	<input type="text"/>
Cultivar Epithet:	<input type="text"/>
Trade Name:	<input type="text"/>
Parent Taxon *:	<input type="text"/>
Notes:	<input type="text"/>
Source:	<input type="text"/>

New Symbiota tools

— — —

- Ability to upload and download more media-related data
 - Download image tags
 - Upload captions, photographer info, etc.





What's Symbiota?

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What's Next in Symbiota Portals?

— — —

- Symbiota 3.4 is going to be a big release!
 - Ability to download from Record Search Form (Edit Existing Occurrence Records)

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 - And more!

Reminder

— — —

Help us help you!

- Add Symbiota support to grant proposals
- Donate to Symbiota
- Contract with us on data management needs



Get in touch!
Symbiota.org / help@symbiota.org



bit.ly/supportsymbiota



CAL POLY