

Dataset Search

a lightweight, community-built tool to support research data discovery at small and mid-sized institutions

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Open data benefits

Economic savings

Less burden on research subjects

New discoveries and new
knowledge

+

Open data benefits

+

Teaching and student use

Reproducibility

In other words, libraries want to support open data.

And at first, MSU tried publishing data in our DSpace repository.

Our DSpace system isn't designed for research data

1. It's designed for articles, which are published once, in a final state.
2. Doesn't have data-specific features like versioning, file-level metadata
3. Customizing for data may prevent upgrading to new versions.

Challenges of a data- specific repository

Why not build a data-specific repository?

1. Open source systems require developers and data storage infrastructure.
2. Vendor solutions cost money.
3. This is in addition to resources required for our existing DSpace system.



Dataset Search

<http://arc.lib.montana.edu/msu-dataset-search>

A metadata index that harvests data repository APIs

Human curators clean and edit metadata records

Optimized for search engines

Montana State University Dataset Search

Quick Search

Advanced Search

Search:

Search

Browse

Keywords

Categories

Dataset Names

About

 About the MSU Dataset Search Online Database

Latest Feeds Tool

Check on latest datasets from MSU

Your search for **wheat** resulted in **1** record.

[« Back to Home page](#)

Title: Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for Managing the Wheat Stem Sawfly, *Cephus cinctus* (Hymenoptera: Cephidae)

Date: 2017-01-26

Creators: Portman , Scott L. , Krishnankutty, Sindhu M. , Reddy, Gadi V. P.

Description: The wheat stem sawfly, (*Cephus cinctus* Norton) Hymenoptera: Cephidae, has been a major pest of winter w...

Object ID: 1

Keywords: cephus cinctus

[+ View additional details about Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for Managing the Wheat Stem Sawfly, *Cephus cinctus* \(Hymenoptera: Cephidae\)](#)

[« Back to Home page](#)

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Creators:

- Portman , Scott L.
- Krishnankutty, Sindhu M.
- Reddy, Gadi V. P.

Date: 2017-01-26

Description: The wheat stem sawfly, (*Cephus cinctus* Norton) Hymenoptera: Cephidae, has been a major pest of winter wheat and barley in the northern Great Plains for more than 100 years. The insect's cryptic nature and lack of safe chemical control options make the wheat stem sawfly (WSS) difficult to manage; thus, biological control offers the best hope for sustainable management of WSS. Entomopathogenic nematodes (EPNs) have been used successfully against other above-ground insect pests and adding adjuvants to sprays containing EPNs has been shown to improve their effectiveness. We tested the hypothesis that adding

DOI: <https://doi.org/10.5061/dryad.4p6pf>

Keywords: cephus cinctus

[∞ Persistent Link](#)

[+ Bookmark and Share](#)

[<Get Embed Code>](#)

[<a title="Data from: Entomop](#)

Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for Managing the Wheat Stem Sawfly, *Cephus cinctus* (Hymenoptera: Cephidae)

Portman, Scott L., Montana State University

Krishnankutty, Sindhu M., Xavier University

Reddy, Gadi V.P.

Reddy, Gadi V. P., Montana State University

Publication date: December 7, 2017

Publisher: Dryad

<https://doi.org/10.5061/dryad.4p6pf>

Citation

Portman, Scott L.; Krishnankutty, Sindhu M.; Reddy, Gadi V.P.; Reddy, Gadi V. P. (2017), Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for Managing the Wheat Stem Sawfly, *Cephus cinctus* (Hymenoptera: Cephidae), Dryad, Dataset, <https://doi.org/10.5061/dryad.4p6pf>



Download complete dataset ~ 71 kB



Download Data Publication (PDF)

Data Files

> December 7, 2017

Metrics



91 views



10 downloads



[1 citations](#)

Keywords

wheat stem sawfly



Behind the scenes

Dataset Candidates

SHARE

Sara Mannheimer et al. ([publishedDate]) Data From: Toward a Better Data Management Plan: The Impact of DMPs on Grant Funded Research Practices

Jonathan Wheeler et al. ([publishedDate]) Repository Analytics and Metrics Portal (RAMP) Production Snapshot Dataset, 2018-11-01

Robert K Szilagyi et al. ([publishedDate]) Computational Data For Selection Of Pbe+50Hfx Functional For Studying Ru-Cl/H-Pr3 Complexes

Terri Hildebrand ([publishedDate]) Montana State University - Northern Herbarium (MSUNH)

Mark C. Marvin-Dipasquale et al. ([publishedDate]) Data for Biogeochemical and Physical Processes Controlling Mercury Methylation and Bioaccumulation in Lake Powell, Glen Canyon National Recreation Area, Utah and Arizona

Tasneen Khaleel ([publishedDate]) Montana State University - Billings (MSUB)

Noah D. Charney et al. ([publishedDate]) Runs with 50% subsets

Noah D. Charney et al. ([publishedDate]) Primary Zipped Folder of Outputs and Scripts

Select a Feed

SHARE

Metabolomic Exchange

 retrieving data from DataMed

MSU Dataset Search List by Status

ID	STATUS	TITLE	OPTIONS
1	a	Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for Managing the Wheat Stem Sawfly, <i>Cephus cinctus</i> (Hymenoptera: Cephidae)	+ Edit - Delete
2	a	Data from: Assessing the sustainability of African lion trophy hunting, with recommendations for policy	+ Edit - Delete
3	a	Supporting Data: A large-scale dataset of solar event reports from automated feature recognition modules	+ Edit - Delete
4	a	Molecular Models and Wave Function Definitions for Models A-E of the [2Fe]F Cluster in FeFe-hydrogenase Maturase Enzyme HydF	+ Edit - Delete
5	a	Molecular Level Characterization of Dissolved Organic Carbon and Microbial Diversity in the WAIS Divide Replicate Core	+ Edit - Delete

MSU Dataset Search Edit Object

MSU Dataset Search Metadata

Dataset Name

Data from: Entomopathogenic Nematodes Combined with Adjuvants Presents a New Potential Biological Control Method for

Creator 1

Creator 1 Name [Last, First Middle (or Middle Initial)]

Portman , Scott L.

Creator 1 ORCID

Creator 1 Type

Creator 1 URL

Dataset Linked Data Category 2

Dataset Linked Data Category 3

Dataset Encoding Format (e.g. CSV)

Dataset Copyright Conditions

Dataset Version Number

Object Status

Object's current status is a. Edit object's status below. 

a = Active

r = Review

p = Pending

i = Inactive

d = Discarded

u = Unprocessed

Submit Metadata Edits

Enriched metadata from researcher profiles

 [jasonclark](#) / [linked-people-bioscience](#)

 Unwatch ▾ 2

 Star 5

 Fork 2

 Code

 Issues 7

 Pull requests 0

 Projects 0

 Wiki

 Insights

 Settings

Branch: master ▾


[linked-people-bioscience](#) / [meta](#) / [scripts](#) /

Create new file

Upload files





Find file

History

 **jasonclark** loaded basic app shell and components for #mozspint

Latest commit c2665c9 on May 31, 2017

..

 getGoogleScholarCitationsSkills.py	set default URL to harvest	a year ago
 getLinkedInSkills.py	set default URL to harvest	a year ago
 getMSAcademicSearchKeywords.py	loaded basic app shell and components for #mozspint	a year ago
 getOrcidKeywords.py	Initial commit	a year ago

Search engine optimization

Google Structured Data Testing Tool



```
1 <!doctype html>
2 <html lang="en" vocab="http://schema.org/" typeof="WebPage">
3 <head>
4 <title>MSU Data Catalog Record - Montana State University (MSU)
  Library</title>
5 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
6 <meta name="description" content="Dataset metadata" />
7 <meta name="keywords" content="" />
8 <meta name="robots" content="noindex, nofollow" />
9 <link rel="canonical" href="http://shelf.lib.montana.edu/msu-data-
  catalog/item/1" />
10 <link rel="stylesheet" type="text/css" media="screen, projection"
  href="/msu-data-catalog/meta/styles/master.css" />
11 </head>
12 <body class="fullWidth default">
13 <div id="contain">
14 <div id="mastHead">
15   <h1><a href="/msu-data-catalog/index.php">Montana State University
  Data Catalog - Montana State University (MSU) Library</a></h1>
16   <p class="hidden"><a href="#mainContent" title="main content">skip
  navigation</a></p>
17 </div><!-- end masthead div -->
```



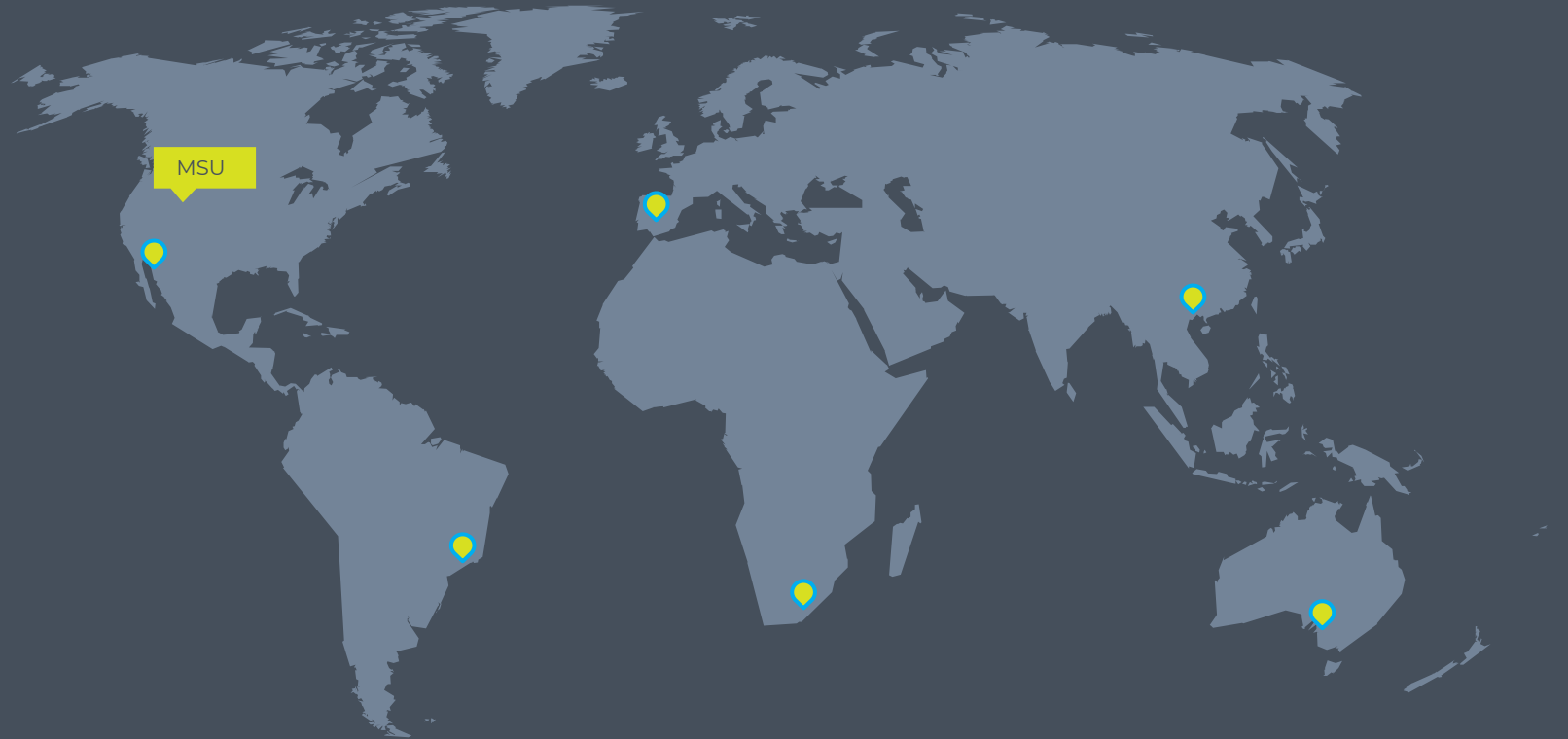
montana state university wheat data



Google Search

I'm Feeling Lucky

Discovery → reuse



Ongoing challenges + solutions

Challenge:

API structures are unstandardized

Solutions:

XML map to translate APIs into our system

Use APIs from other aggregators like DataCite and DataMed

Ongoing challenges + solutions

Challenge:

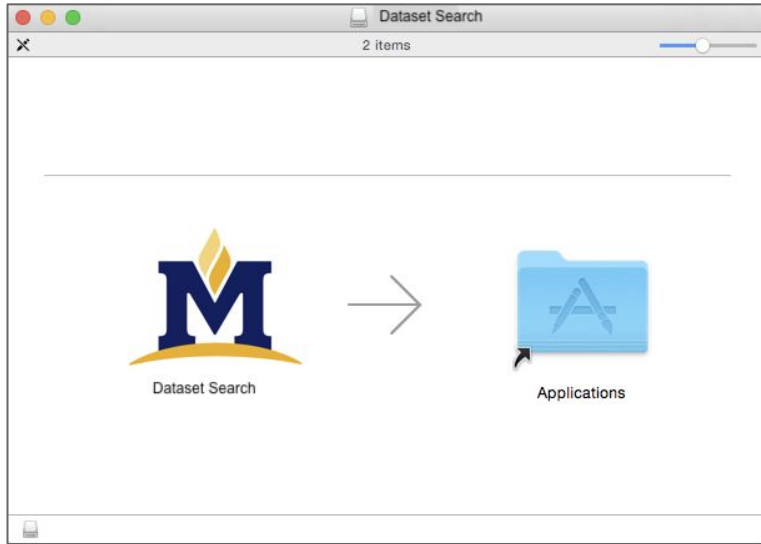
Finding datasets from MSU researchers

Solutions:

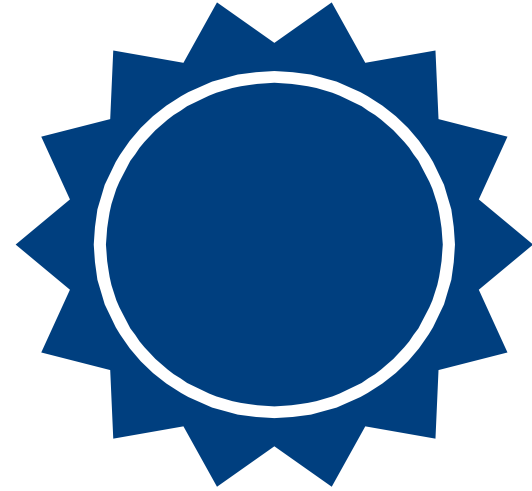
Query data repositories for the full names of MSU researchers

Cross-reference grant numbers with institutional award data

Next steps



September 2020: improve upon early prototype (now available in MSU github)



Summer 2020: Hire a web designer to make it beautiful

Next steps

MSU Dataset Search Dashboard

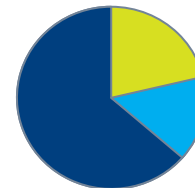
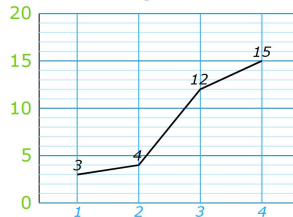
Current Department

Browse by Department

Agriculture Arts & Architecture Business Education Health & Human Development Engineering Letters & Science Nursing

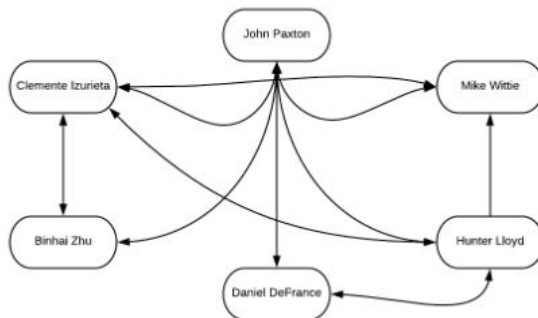
Gianforte School of Computing

Department Head: John Paxton



- _____ of datasets indexed
- _____ % faculty are researchers
- _____ undergraduate researchers
- _____ graduate researchers

Interdepartmental Collaboration



Cross Departmental Collaboration



Next steps



Data Discovery Collaboration
Project



Pilot with the MSU Center for
American Indian and Rural
Health Equity to provide
discovery for restricted datasets

Acknowledgments

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and Nicole Contaxis

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Thanks!

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arc.lib.montana.edu/msu-dataset-search