



Open for all. Reusable for whom?

A review of what data reusers want
and how data repositories can deliver



Presenters



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Motivation for Our Work

Examples of prior data reuse research:

Curty (2016) provides an integrated view of the individual, social, and technological factors that influence reuse.

Yakel et al., (2013) describe how reusers construct trust in repositories and how they associate repository actions with trust.

Chin and Lansing (2004) design the Biological Sciences Collaboratory after identifying and capturing social and scientific contexts needed to understand and reuse others' data.

Our research questions:

How do reusers needs for context translate into a desirable feature set for data repositories?

How do data repositories showcase these desirable features in use?

Context from the Data Reuser's Point of View

Repository Information

Provenance
Reputation and History
Curation and Digitization

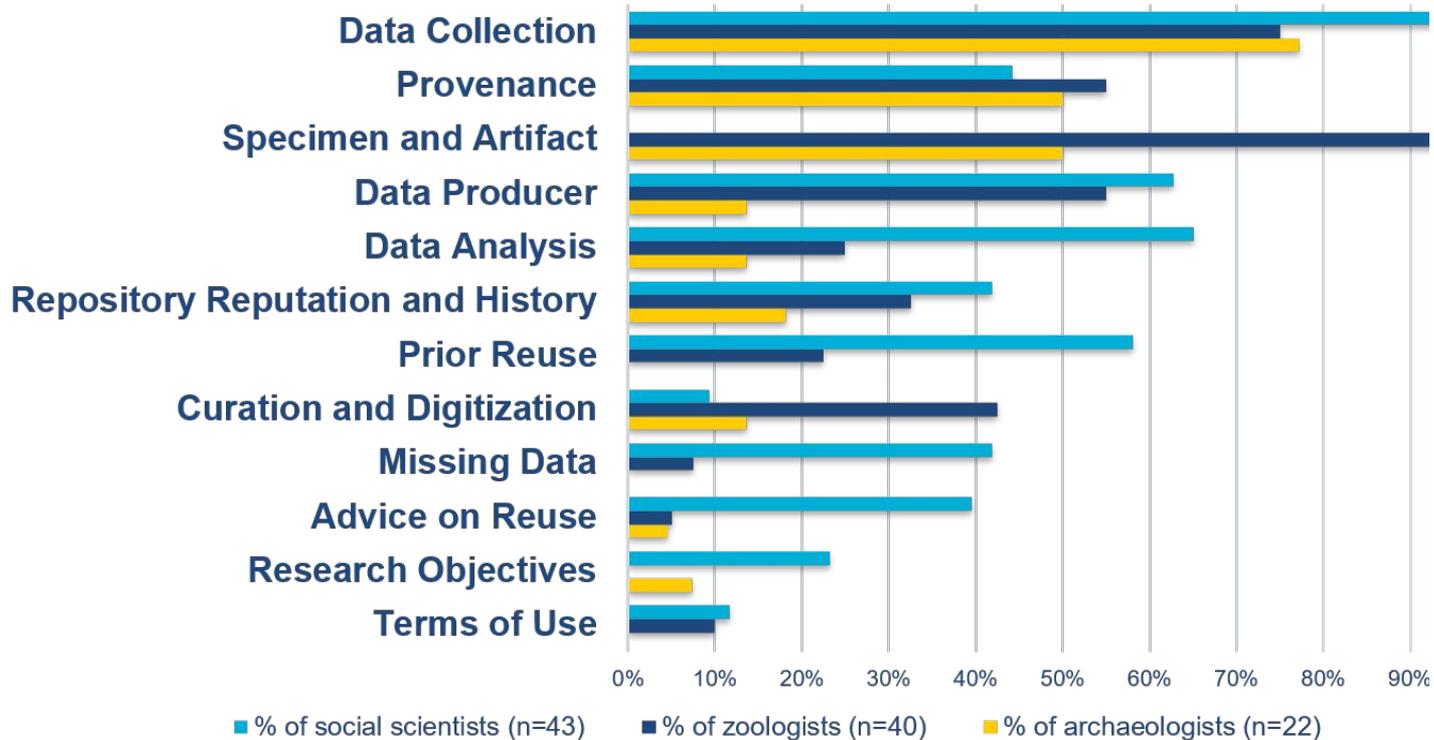
Data Reuse Information

Prior Reuse
Terms of Use
Advice on Reuse

Data Production Information

Data Collection
Specimen and Artifact
Data Producer
Data Analysis
Missing Data
Research Objectives

Context Types by Percentage of Mentions



Our Approach

- Translated the twelve context types into a desirable feature set
- Reviewed generalist and disciplinary data repositories for those features
- Created a self-assessment questionnaire for data repository staff asking what context they capture and display
- Piloted the self-assessment questionnaire with staff at four data repositories in the Data Curation Network (DCN)
- Conducted interviews with staff to discuss self-assessment results, including what they identified as their data repositories' exemplar features.

Data Repository Features Supporting Reuse Context

Data Repository Features Supporting Reuse Context

Categories

Categories

Data production information	Data Collection	Methodology Ephemeral documentation Data type Granularity or resolution	Repository information	Provenance	By source By traceability Versions Linkages File naming convention
	Specimen and Artifact	Taxonomies Provenance/source Unique IDs Access info Age estimation		Repository Reputation and History	Support services Staffing levels
	Data Producer	ORCID Other Data Producer		Curation and Digitization	Documentation about the digitalization and curation process.
	Data Analysis	Code book Documentation of data analysis Reproducibility		Prior Reuse	Citation count Data citation
	Missing Data	Documentation Procedure	Prior reuse information	Advice on Reuse	Classes / education Documentation on how to reuse
	Research Objectives	Linkages research Linkages funder Abstract Data citations		Terms of Use	Transparency and clarity around data access processes (restricted)

Example features of
a “reuser-oriented”
data repository

Methodology

“These details are important, because data collection processes are highly individualized across quantitative and qualitative disciplines (Carlson and Anderson, 2007).”

The screenshot shows the University of Michigan Deep Blue Data website. At the top, there is a navigation bar with the logo 'M LIBRARY Deep Blue Data' and links for 'About', 'Help', 'Contact', and 'Login'. Below the navigation bar is a search bar with the placeholder text 'Enter search terms' and a blue 'Go' button. The main content area features a 'Work Description' section with a document icon. The title of the work is 'Data for Service Providers' Influence in Collaborative Governance Networks: Effectiveness in Reducing Chronic Homelessness', with 'Open Access' and 'Deposited' tags. Below the title is a table with two columns: 'Attribute' and 'Value'.

Attribute	Value
Methodology	We conducted the 2014 National Community of Care (CoC) survey with the intent of helping policymakers, funding organizations, and nonprofit leaders better understand the range of what CoCs do and how they work with providers, clients, and government to address the issue of homelessness. The survey da... [more]
Description	This data set is comprised of publicly available data from three HUD websites and the 2014 National Continuum of Care (CoC) Survey questionnaire and protocol. The HUD data sets are comprised of Community Planning and

Data Type

Data Type

- Experimental Data (123)
- Field Study Data (119)
- Observational Data (71)
- Spatial Data (53)
- Genomics Data (43)
- ... View More

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Data Repository for U of M

University Digital Conservancy Home / University of Minnesota / Data Repository for U of M (DRUM) / View Item

Free carrier induced ferroelectricity in layered perovskites

Unknown author (2021)

Submission under curatorial review

Title	Free carrier induced ferroelectricity in layered perovskites
Published Date	2021-06-08
Author Contact	Li, Shutong (li000269@umn.edu)
Type	Dataset Programming Software Code Simulation Data
Abstract	Doping ferroelectrics with carriers is often detrimental to polarization. This makes the design and discovery of metals that undergo a ferroelectric-like transition challenging. In this letter, we show from first principles that the oxygen octahedral rotations in perovskites are often enhanced by electron doping, and this can be used as a means to strengthen the structural polarization in certain hybrid-improper ferroelectrics -- compounds in which the polarization is not stabilized by the long range Coulomb interactions but is instead induced by a trilinear coupling to octahedral rotations. We use this design strategy to predict a cation

Persistent link to this item
<https://hdl.handle.net/11299/220312>

“[Reusers] examine different factors such as the topic, the level of analysis, and the type of data to judge whether data is suitable or not to their purpose.” (Curty, 2016)

Data Repository for the University of Minnesota (DRUM)

Data Format

Format	
TXT	78
CSV	37
DAT	31
PDF	31
EPS	18
more »	

DUKE UNIVERSITY LIBRARIES DIGITAL REPOSITORY RESEARCH DATA

Enter search terms

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Data from: Mean-field caging in a random Lorentz gas

[Export Files](#) [Get Data from Globus](#) [More About Globus](#)

The random Lorentz gas (RLG) is a minimal model of both percolation and glassiness, which leads to a paradox in the infinite-dimensional limit: the localization transition is then expected to be continuous for the former and discontinuous for the latter. ... [\[Read More\]](#)

Total Size
56 files (153 KB)

Data Citation
Biroli, G., Charbonneau, P., Hu, Y., Ikeda, H., Szamel, G., & Zamponi, F. (2021). Data from: Mean-field caging in a random Lorentz gas. Duke Research Data Repository. <https://doi.org/10.7924/r4sb44m3b>

Creator Szamel, Grzegorz Zamponi, Francesco Hu, Yi Charbonneau, Patrick Biroli, Giulio Ikeda, Harukuni	Publisher Duke Research Data Repository
DOI 10.7924/r4sb44m3b	Type Dataset
	Format DAT M EPS
	Related Materials

Home

↓

Simons Collaboration on Cracking the Glass Problem

↓

This Dataset

[USAGE STATS](#)

“Data formats can indicate the degree to which the data are accessible, given the software data reusers have available or are skilled at using (Yoon, 2016)....”

ORCID

“Data producer information, such as the names of the data creators, their institutional affiliations and where they were educated....” (Faniel, Frank, & Yakel, 2019).

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 Roland B. Sookias

Member Since 2018-12-20
Public Profile [osf.io/st7ma](https://orcid.org/0000-0002-5189-4011)

28 activity points
2 projects, 2 public

Social Employment Education

	Personal website	http://rsookias.info
	ORCID	0000-0002-5189-4011
	Google Scholar	z40hKDwAAAAJ

Public projects

 Exploring the effects of character construction and choice, outgroups, and analytical method on phylogenetic inference from discrete characters in extant crocodylians
Sookias

Public components

This user has no public components.

Documentation of Analysis

*“a lot of the work I've been focusing on actually is trying to understand uncertainty Not so much in the primary data itself but in this associated chronology which is necessary to interpret the primary data.”
(Faniel, Frank, & Yakel, 2019).*

Usage Notes

Supplementary File 2 - Probe Design and Sequences

Complete set of probes used for cross-species targeted capture and associated data

Supplementary File 3 - Assembly and Analysis Pipelines and Scripts

Custom pipelines and scripts for the assembly and analysis of cross-species targeted capture data

Supplementary File 4 - Anolis Reference

Reference file used for assembly

Supplementary File 5 - Snake Reference

Reference file used for assembly

Code for Reproducibility

UNIVERSITY LIBRARY UNIVERSITY OF ILLINOIS

Illinois Data Bank

+ Deposit Dataset

Population genetic structure of Miscanthus

Citation:

Clark, Lindsay V.; Jin, Xiaoli; Petersen, Karen K.; Anzoua, Kossanou G.; Bagmet, Larissa; Nicolay, Heo, Kweon; Johnson, Douglas A.; Jørgensen, Uffe; Kjeldsen, Jens; Hironori Nagano, Hye; Yu, Chang Yeon; Long, Stephen P.; Sacks, Erik J. (2018): Population genetic structure of Miscanthus sacchariflorus. University of Illinois at Urbana-Champaign. https://doi.org/10.13012/B2IDB-0170190_V3 Export Citation

Persistent link for this dataset:

https://doi.org/10.13012/B2IDB-0170190_V3

Related Code Lindsay Clark. "R functions for conversion of genetic data formats."

Related Code Lindsay Clark. "Functions to help make nice plots in R."

Related Dataset "Genetic diversity of Miscanthus sinensis." Raw DNA sequencing data on NCBI Sequence Read Archive.

Related Dataset "Genetic diversity of Miscanthus sacchariflorus." Raw DNA sequencing data on NCBI Sequence Read Archive.

Related Dataset "Genetic diversity and hybridization of Japanese Miscanthus sinensis and Miscanthus sacchariflorus." Raw DNA sequencing data on NCBI Sequence Read Archive.

Related Dataset "Genetic diversity of Miscanthus in eastern Russia." Raw DNA sequencing data on NCBI Sequence Read Archive.

Related Article Lindsay V Clark, Xiaoli Jin, Karen Koeleod Petersen, Kossanou G Anzoua, Larissa Bagmet, Pavel Chebukin, Martin Deuter, Elena Dzyubenko, Nicolay Dzyubenko, Kweon Heo, Douglas A Johnson, Uffe Jørgensen, Jens Bonderup Kjeldsen, Hironori Nagano, Junhua Peng, Andrey Sabitov, Toshihiko Yamada, Ji Hye Yoo, Chang Yeon Yu, Stephen P Long, Erik J Sacks. Population structure of

Persistent link for this dataset:

https://doi.org/10.13012/B2IDB-0170190_V3

Related Code Lindsay Clark. "R functions for conversion of genetic data formats."

Related Code Lindsay Clark. "Functions to help make nice plots in R."

Related Dataset "Genetic diversity of Miscanthus sinensis." Raw DNA sequencing data

Illinois Data Bank

Linkages to Funder and Grant Information



Title	Semiochemical responsive olfactory sensory neurons are sexually dimorphic and plastic [pS6-IP-Seq of whole olfactory mucosa]
Organism	Mus musculus
Experiment type	Other
Summary	Understanding how genes and experiences work in concert to generate phenotypic variability will provide a better understanding of individuality. Here, we considered this in the context of the main olfactory epithelium, a chemosensory structure with over a thousand distinct cell types, in mice. We identified a subpopulation of at least three types of olfactory sensory neurons, defined by receptor expression, whose abundances were sexually dimorphic. This subpopulation of olfactory sensory neurons was over-represented in sex-separated female mice and responded robustly to the male-specific semiochemicals 2-sec-butyl-4,5-dihydrothiazole and (methylthio)methanethiol. Sex-combined housing led to a robust attenuation of the female over-representation. Testing of Bax ^{-/-} mice revealed a Bax-dependence in generating the sexual dimorphism in sex-separated mice. Altogether, our results suggest a profound role of experience and activity in influencing homeostatic mechanisms to generate a robust sexually dimorphic phenotype in the main olfactory epithelium.
Overall design	Phosphorylated S6 ribosomal subunit capture and associated mRNA profiling (pS6-IP-Seq) on whole olfactory mucosa after odorant exposure.



Funding Agency
NIH

Grant Number
R01-GM097261
DC016224
DC014423

"I'll typically go and download the article and see what were they doing with the data. Again, it gets you before you start your own analysis a sense of what's possible, what's not possible...." (Faniel, Frank, & Yakel, 2019).

Duke Research Data Repository

Citation Count

ADD THE STUDY (3RD MOST)



ICPSR

"...all of the secondary data that I used is federally funded, is nationally representative, and is very widely used among the fields that I'm working in so I've never had to make like an independent judgment of, 'Do I trust this survey or not?'...I just rely on the collective judgment to say that this a trustworthy survey." (Faniel, Frank, & Yakel, 2019)

Links to Related Articles

Illinois Data Bank + Deposit Dataset Find Data Policies Help

New York City Taxi Trip Data (2010-2013)

Citation:
Donovan, Brian; Work, Dan (2016): New York City Taxi Trip Data (2010-2013). University of Illinois at Urbana-Champaign. <https://doi.org/10.13012/J8PN93H8> Export

Persistent link for this dataset:
<https://doi.org/10.13012/J8PN93H8>

Related Article	B. Donovan and D. Work. "Using coarse GPS data to quantify city-scale transportation system resilience to extreme events." presented at the 94th Annual Meeting, August 2014.
Related Code	https://github.com/Lab-Work/gpsresilience
Related Dataset	Donovan, Brian; Mori, Alec; Agrawal, Nimit; Meng, Yalan; Lee, Jong; Work, Daniel (2016): New York City Hourly Traffic Estimates (2010-2013). University of Illinois at Urbana-Champaign. https://doi.org/10.13012/B2IDB-4900670_V1
Related Thesis	Zhu, Chenguang. (2015). Analysis and modeling of large-scale systems: taxis and social polling (Doctoral dissertation). Stanford University.
Related Article	Zhu, C. & Prabhakar, B. (2016, August). "Reducing Inefficiencies in Taxi Systems." Paper presented at UrbComp'16, August 14, 2016, Chicago, IL.
Related Article	Donovan, B., & Work, D. "Empirically quantifying city-scale transportation system resilience to extreme events." <i>Transportation Research Record</i> , 79, June 2017, Pages 333-346, doi:10.1016/j.trc.2017.03.002.

Access to Restricted Data (process)

“to know what’s restricted and what’s not restricted and then how to launch those procedures for getting that would be very helpful.” (Faniel, Frank, & Yakel, 2019).

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Dataverse

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Dataset Terms

Please confirm and/or complete the information needed below in order to continue.

Terms of Use
This data is licensed under the [Creative Commons Attribution 4.0 International](#) license.

Terms of Access
Access to the dataset is restricted. Accompanying documentation is available under open access. For more detailed information beyond the metadata and documentation provided, there is a process of managed access requiring submission of a request form for consideration by our Data Governance Committee (dgc@kemri-wellcome.org). [Click to download Data Request Form](#)

Name *

Email *

Institution *

Position *

Data Availability
Access to these data requires submission of a formal request for consideration by our Data Governance Committee.

Feedback

Classes and Documentation

"[Reusers] mentioned getting advice about working with data sets through workshops and courses....also expressed appreciation for documentation that included recommendations for working with the data (e.g. combining, weighting or linking data, etc.)." (Faniel, Frank, & Yakel, 2019).


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About the Program

Since 1963, the Inter-university Consortium for Political and Social Research (ICPSR) has offered the ICPSR Summer Program in Quantitative Methods of Social Research as a complement to its data services. The ICPSR Summer Program provides rigorous, hands-on training in statistical techniques, research methodologies, and data analysis. ICPSR Summer Program courses emphasize the integration of methodological strategies with the theoretical and practical concerns that arise in research on substantive issues. The Summer Program's broad curriculum is designed to fulfill the needs of researchers throughout their careers. Participants in each year's Summer Program generally represent about 30 different disciplines from more than 350 colleges, universities, and organizations around the world. Because of the premier quality of instruction and unparalleled opportunities for networking, the ICPSR Summer Program is internationally recognized as the leader for training in research methodologies and technologies used across the social, behavioral, and medical sciences.



The Mission of the Summer Program

- To offer instruction for the primary development and "upgrading" of quantitative skills by college and university faculty and by nonacademic research scholars
- To extend the scope and depth of analytic skills for graduate participants, college and university faculty, and research scientists from the public sector
- To furnish training for those individuals who expect to become practicing social methodologists
- To provide opportunities for social scientists to study those methodologies that have special bearing on specific substantive issues
- To create an environment that facilitates an exchange of ideas related to the development of methodologies on the frontier of social research

Summer Program Staff

- Michael Traugott, 2, Interim Director

Support Services

“The repository’s institutional affiliation, extent to which it was well known and widely used, collection size, staff size, expertise, and quality of curation and digitization work were used to assess its reputation and decide whether the data were credible and could be trusted.” (Faniel, Frank, & Yakel, 2019).

The screenshot displays the website for the Parkinson's Disease Biomarkers Program (PDBP), which is part of the National Institute of Neurological Disorders and Stroke (NIH). The navigation menu includes 'About', 'Participants', 'Researchers', and 'Projects We Support'. The main content area is titled 'PDBP provides researchers with access to:' and features four service categories, each with a purple icon and a brief description:

- The Data Management Resource (DMR)**: Utilize a collection of tools that enable research and promote collaboration.
- Biorepositories**: Access a range of biospecimens from different biorepositories.
- Funding Opportunities**: View and apply for relevant and active funding opportunities.
- Clinical Assessments**: Reference all necessary clinical assessments from one consolidated location.

Parkinson's Disease Biomarkers Program

Versioning

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June 6, 2021 Dataset Open Access

A large-scale COVID-19 Twitter chatter dataset for open scientific research - an international collaboration

90,805 views 109,007 downloads

Indexed in OpenAIRE

Publication date: June 6, 2021

DOI: 10.5281/zenodo.4905209

Keyword(s): social media twitter ip covid-19 covid19

Related Identifiers: Continued by http://www.pnasceelab.org/covid19/ (Other) Supplement to https://osf.org/abs/2004.03688 (Preprint)

Alternative Identifiers: https://github.com/theanacasalab/covid19_twitter

emojis.zip

The previewer is not showing all the files

- extracted_elements
 - emojis
 - 2020-01-04_clean-emoji_char.tsv 11 Bytes
 - 2020-01-04_clean-emoji_text.tsv 21 Bytes
 - 2020-01-06_clean-emoji_char.tsv 1 Byte
 - 2020-01-06_clean-emoji_text.tsv 1 Byte
 - 2020-01-08_clean-emoji_char.tsv 1 Byte

Versions

Version 65	Jun 6, 2021
10.5281/zenodo.4905209	
Version 64	May 30, 2021
10.5281/zenodo.4876538	
Version 63	May 23, 2021
10.5281/zenodo.4782234	
Version 62	May 16, 2021
10.5281/zenodo.4767764	
Version 61	May 9, 2021
10.5281/zenodo.4748942	

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Zenodo

“I know it’s Version 4, but I don’t know why [...] they [the data producers] could go, “Look,” it’s like a log saying, “We noticed that [...] there was a problem with blah-blah-blah [...] And we fixed this in variable blah-blah-blah. And this is Version 4”” (Faniel, Frank, & Yakel, 2019).

File Checksums

“Descriptions of how data, specimens, or artifacts were curated or digitized, including the people, functions, and/or services associated with these activities.” (Faniel, Frank, & Yakel, 2019).

figshare

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File info

JamesoniaSuppTable1.docx (38 kB)

MD5 checksum:
92930217eac9a66d9fdcc3d2bdc94370

download

Supplementary Table 1. Habitats of *Jamesonia* and *Eriosorus* species. Habitats include: 1) super-páramo (4000–5000 m); 2) grass páramo (3500–4100 m); 3) sub-páramo (2800/3000–3500 m), and 4) montane forest (1150–2800/3000 m). Abbreviations of geographical distribution are: BO, Bolivia; BR, Brazil; CO, Colombia; CR, Costa Rica; EC, Ecuador; ME, Mexico; PA, Panama; PE, Peru; UR, Uruguay; and VE, Venezuela.

Species	Habitat	Geographical distribution
Eriosorus		
<i>E. cheilanthoides</i>	Sub-páramo to páramo; among rocks, at edge of boulders and open hillsides	EC, PE, BO, BR
<i>E. congestus</i>	Montane forest; understory, road banks, on mossy turf, shaded sites	CR
<i>E. flexuosus</i>	Montane forest to páramo; scrambling or climbing on shrubby growth in cloud forest and in low bordering páramos	ME, CR, PA, VE, CO, EC,
		PE, BOL, BR
<i>E. insignis</i>	Montane forest; in moist, shaded places at edge of boulders or in caves	BR
<i>E. hirsutus</i>	Montane forest to sub-páramo; among rocks on peaty rock ledges and earth banks	CO
<i>E. hirtus</i>	Montane forest; shaded forest borders and wet places	CO, EC, BO
<i>E. hispidulus</i>	Montane forest; understory, road banks, bare soil, and shaded sites	CO, VE
<i>E. lindigii</i>	Montane forest to sub-páramo; on sandstone ledges or in shade at base of boulders	CO
<i>E. longipetiolatus</i>	Montane forest to sub-páramo; on rocks and wet places at forest borders	CO
<i>E. novogranatensis</i>	Montane forest to sub-páramo; climbing on steep mossy banks or forest borders	CO, EC
<i>E. rufescens</i>	Montane forest to páramo; on shaded crevices of bluffs, and earth banks, or in caves	VE, CO, EC, PE, BO
<i>E. setulosus</i>	Montane forest to sub-páramo; on mossy banks at forest borders	CO, EC
<i>E. ...</i>	Habitat	Geographical distribution

Switch View 9/9 JamesoniaSuppTable1.docx (38 kB)

Adaptation and convergent evolution within the Jamesonia-Eriosorus complex in high-elevation biodiverse Andean hotspots

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DIGITAL SCIENCE CHRONOPOLIS DataCite iO|PK| OPEN ACCESS

Data Repository Features Supporting Reuse Context			Data Repository Features Supporting Reuse Context		
Categories			Categories		
Data production information	Data Collection	Methodology. Ephemeral documentation Data type Granularity or resolution	Repository information	Provenance	By source By traceability Versions Linkages File naming convention
	Specimen and Artifact	Taxonomies Provenance/source Unique IDs Access info Age estimation		Repository Reputation and History	Support services Staffing levels
	Data Producer	ORCID Other Data Producer		Curation and Digitization	Documentation about the digitalization and curation process.
	Data Analysis	Code book Documentation of data analysis Reproducibility		Prior Reuse	Citation count Data citation
	Missing Data	Documentation Procedure	Prior reuse information	Advice on Reuse	Classes / education Documentation on how to reuse
	Research Objectives	Linkages research Linkages funder Abstract Data citations		Terms of Use	Transparency and clarity around data access processes (restricted)

Key Takeaways

- Some context types needed by reusers may not be easily accessible (documentation for missing data, repository curation services, etc.)
- Many data repositories are developed/tested for the depositor. But as a repository matures, we must shift our focus toward the reuser.
- New persistent identifier standards and linking technologies open up options for enhanced context in DRs. This evolving technology requires regular innovation and investment on the part of sponsoring institutions.
- This is preliminary research and we plan to do more interviews with disciplinary or generalist repositories.

Acknowledgements

The “Dissemination Information Packages for Information Reuse” (DIPIR) Project made possible in part by a National Leadership Grant from the Institute of Museum and Library Services, LG-06-10-0140-10, with additional support from OCLC and University of Michigan. <https://www.oclc.org/research/areas/user-studies/dipir.html>

The Data Curation Network is funded by the Alfred P Sloan Foundation and 12 members institutions. <http://datacurationnetwork.org>

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Questions?

Thanks!

Contact us!

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