

1. Dryad Survey

The Dryad repository is a repository for scientific data supporting published research in the field of evolutionary biology. Dryad supports data acquisition, ensures long-term preservation of data objects, and promotes resource discovery, data sharing, and data reuse of heterogeneous digital datasets.

This survey is being conducted to help determine the functional requirements for the repository.

Please answer the questions to the best of your ability.

More information about this project can be found at the [Dryad repository website](#).

2. Participant Information

Information about you will help us better understand the range of prospective users of Dryad, and thereby inform us about its requirements.

The information that you provide in this section will be kept confidential, and your anonymity will be preserved in all survey results and reports.

1. Which of the following best describes your *primary* field of concentration within evolutionary biology?

Behavior/Neurobiology

Development/Morphology

Ecology

Genetics/Genomics

Molecular evolution

Paleontology

Phylogenetics/Systematics

Physiology/Organismal biology

Mathematical theory

Other (please specify)

2. What is your current position?

Graduate Student

Research Staff

Postdoctoral Fellow

Professor (not tenured)

Professor (tenured)

Other (please specify)

3. ATTITUDES: Data Sharing & Preservation

Information about your perceptions and feelings towards data use, sharing, and preservation.

3. How important are the following reasons for sharing data? Rank them in order of value, 1 being most important, 7 being least important:

	Importance
Reinforcing open scientific inquiry	<input type="text"/>
Encouraging diversity of analysis and opinion	<input type="text"/>
Promoting new research, testing of new or alternative hypotheses and methods of analysis	<input type="text"/>
Facilitating education of new researchers	<input type="text"/>
Enabling the exploration of topics not envisioned by the initial investigators	<input type="text"/>
Permitting the creation of new datasets by combining data from multiple sources	<input type="text"/>
Other (please specify in text-box below)	<input type="text"/>

4. Do you think the data underlying published scientific results should be made publicly accessible?

Yes

No (If you answered "no," please skip to question 6)

5. If you answered yes to the previous question, do you think journals should require data sharing of their authors, or should it be voluntary?

Yes, journals should require data sharing.

No, data sharing should be voluntary.

6. Valuable research data is sometimes lost or discarded due to inadequate preservation or distribution by the author/s. How concerned are you that this loss of data has a negative impact on your field?

Very concerned

Somewhat concerned

Slightly concerned

Neutral

I am not concerned

4. BEHAVIOR: Data Use & Preservation

Information about your data preservation and use/reuse practices.

7. What kinds of data records do you have? Rank them in order of volume from most to least important, 1 being most important, 5 being least important. (Use "N/A" for those types of data which you do not use):

	Volume
2D Images (including maps)	<input type="text"/>
3D images	<input type="text"/>
Experimental data (in tabular form), not including pedigree data	<input type="text"/>
Individual observations, such as behavioral data (in tabular form)	<input type="text"/>
Pedigree data (genotypic and/or phenotypic data)	<input type="text"/>
Free-form text (e.g., field observations, specimen descriptions)	<input type="text"/>
Biomolecular structures	<input type="text"/>
DNA, RNA or protein sequences (unaligned)	<input type="text"/>
Gene expression data	<input type="text"/>
Phylogenetic data matrices and sequence alignments	<input type="text"/>
Population-based observations, such as allele frequencies (in tabular form)	<input type="text"/>
Geographic data (multiple localities, not including map images)	<input type="text"/>
Environmental observations (from one locality, in tabular form)	<input type="text"/>
Movies (with or without sound)	<input type="text"/>
Sound files	<input type="text"/>
Mathematical model results (in tabular form)	<input type="text"/>
Stratigraphic data (in tabular form)	<input type="text"/>
Other tabular data (please describe in text-box below)	<input type="text"/>
Other non-tabular data (please describe in text-box below)	<input type="text"/>



8. Which of these kinds of data records do you NOT share with others?

- 2D Images (including maps)
- 3D images
- Experimental data (in tabular form), not including pedigree data
- Individual observations, such as behavioral data (in tabular form)
- Pedigree data (genotypic and/or phenotypic data)
- Free-form text (e.g., field observations, specimen descriptions)
- Biomolecular structures
- DNA, RNA or protein sequences (unaligned)
- Gene expression data
- Phylogenetic data matrices and sequence alignments
- Population-based observations, such as allele frequencies (in tabular form)
- Geographic data (multiple localities, not including map images)
- Environmental observations (from one locality, in tabular form)
- Movies (with or without sound)
- Sound files
- Mathematical model results (in tabular form)
- Stratigraphic data (in tabular form)
- Other tabular data (please describe in text-box below)
- Other non-tabular data (please describe in text-box below)

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9. Approximately how much of your data is stored digitally/electronically, in percentage of importance to your overall data collection?

- less than 5%
- 5% - 25%
- 26% - 50%
- 51% - 75%
- more than 75%

10. If you have reused previously published data (of your own or others), how old was that data at the time of reuse? If multiple answers are possible, please choose the oldest:

I have never reused published data

Less than 1 Year

1-3 Years

3-5 Years

5-10 Years

More than 10 Years

5. BEHAVIOR: Data Sharing

Information about your behavior regarding giving and receiving data to/from others.

11. Rank your preferred methods of providing your data to others using a 1 thru 5 scale, 1 being most preferred and 5 being least preferred. (Use "N/A" for methods you do not use):

	Preference
My lab or personal website	<input type="text"/>
Supplemental materials (hosted by journal/publisher/society website)	<input type="text"/>
Correspondence	<input type="text"/>
Submission to a database	<input type="text"/>
Other (please specify below)	<input type="text"/>

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12. Which of the following types of online repositories or databases have you used to deposit research data? (check all that apply):

- I have not deposited research data into any repositories/online databases
- Sequences: e.g. Genbank/EMBL/DDBJ
- Polymorphisms: e.g. dbSNP
- Images, character matrices: e.g. Morphbank, MorphoBank, DigiMorph
- Microarray data: e.g. GEO, ArrayExpress, SMD
- Ecological data: e.g. Metacat/KNB
- Genomic model organism data: e.g. SGD, ZFIN, FlyBase, WormBase, MGD
- Paleontology data: e.g. PaleoBiology Database
- Phylogenetic trees, character matrices: e.g. TreeBASE, Tolkin
- Other (please specify type & name)

13. When you last deposited data in a publicly accessible repository, by whom were you required to do so?

- I have never deposited data in a repository or online database
- I was not required to deposit my data
- Boss/Employer
- Grant/funding source
- Journal/publisher/scientific society
- Collaborators
- Other (please explain)

14. In general, at what point do your deposited data become publicly accessible?

- I do not deposit research data
- At the time data is collected
- Prior to paper submission
- At the time of paper submission
- At the time of paper acceptance or publication
- After paper publication
- Other (please specify)

6. BEHAVIOR: Data Sharing

Information about your behavior regarding giving and receiving data to/from others.

15. In the past five years, have you been unable to recover your own data that you would have liked to reuse or share?

I have never been unable to recover data

On one occasion

On more than one occasion

16. For what approximate percentage of your published work do you still have access to the original data in usable form?

less than 5%

5% - 25%

26% - 50%

51% - 75%

more than 75%

17. In the past five years, how often have you received requests to share data from your published works?

0 times

1-3 times

4-6 times

more than 6 times

18. Of the data sharing requests that you have received, approximately what percentage of requests have you granted?

less than 5%

5% - 25%

25% - 50%

50% - 75%

more than 75%

19. For the requests that you have granted in the past, what conditions, if any, did you attach? (select all that apply):

I did not attach any conditions

Credit by acknowledgment

Credit by citation

Co-authorship

Reciprocal sharing of the requestor's data

Submitting a joint grant application

Other (please specify)

7. BEHAVIOR: Data Sharing

Information about your behavior regarding giving and receiving data to/from others.

20. For the requests that you have NOT granted in the past, why did you choose not to share your data? (select all that apply):

- Lack of acknowledgment by requester
- Lack of adequate credentials of requester
- Technological constraints
- Legal constraints
- To protect the ability to publish additional findings at a later date
- Too much effort required to locate data
- Too much effort required to adequately organize/document data
- Other (please specify)

21. In the past five years, how many times have you requested data from other authors/researchers?

- I have not requested data from other authors/researchers (*please skip to #23*)
- 1-3 times
- 4-6 times
- more than 6 times

22. In the past five years, how many of your data requests made to other authors/researchers have been granted?

- I do not request data from other authors/researchers
- less than 25%
- 26% - 50%
- 51% - 75%
- more than 75%

23. How many of your publications in the past five years have used a substantial amount of data obtained from public repositories or otherwise acquired from other research groups?

- None
- less than 25%
- 26% - 50%
- 51% - 75%
- more than 75%

24. Please indicate how you have acknowledged data producers from outside your research group. (select all that apply):

- I have never combined my research data
- Acknowledgment
- Citation of publication
- Other form of citation (e.g., to a database record)
- Made them co-author(s)
- Started follow-up collaboration resulting in at least one co-authored publication
- Submitted a joint grant application
- Other (please specify)

8. Survey Complete

Thank you for participating

Your participation in this survey is greatly appreciated, and is an important contribution to the Dryad repository project.

Due to overwhelming response, we have already received 50 entries into our prize drawing. Thank you for your prompt response to the survey!