

*Services and tools for research data management in neuroscience,
facilitating data access, data analysis, and data sharing*

Data Annotation



odML metadata format

Data Organization



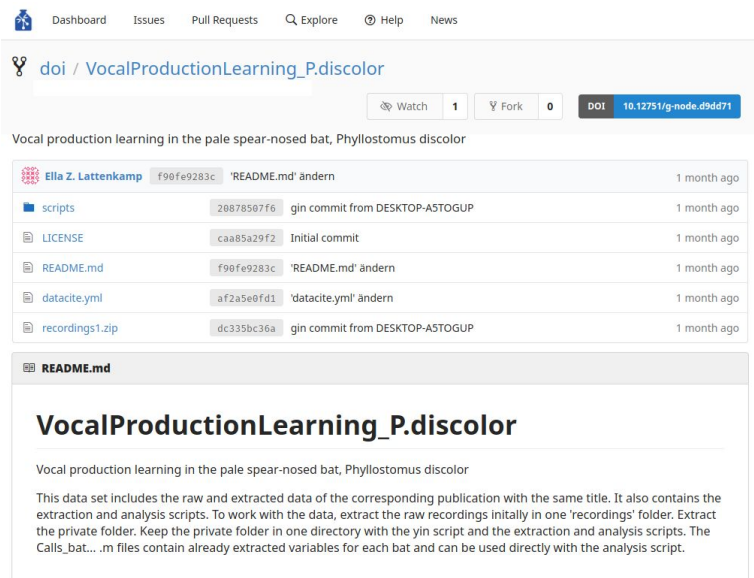
NIX file format
for research data

Data Sharing



GIN services for
version control, collaboration,
and data publication

G-Node projects: [g-node.github.io](https://github.com/g-node)



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doi / VocalProductionLearning_P.discolor

Watch 1 Fork 0 DOI 10.12751/g-node.d9dd71

Vocal production learning in the pale spear-nosed bat, *Phyllostomus discolor*

Elia Z. Lattenkamp	f90fe9283c	'README.md' ändern	1 month ago
scripts	28878507f6	gin commit from DESKTOP-ASTOGUP	1 month ago
LICENSE	caa85a29f2	Initial commit	1 month ago
README.md	f90fe9283c	'README.md' ändern	1 month ago
datacite.yml	a72a5e0fd1	'datacite.yml' ändern	1 month ago
recordings1.zip	dc335bc36a	gin commit from DESKTOP-ASTOGUP	1 month ago

README.md

VocalProductionLearning_P.discolor

Vocal production learning in the pale spear-nosed bat, *Phyllostomus discolor*

This data set includes the raw and extracted data of the corresponding publication with the same title. It also contains the extraction and analysis scripts. To work with the data, extract the raw recordings initially in one 'recordings' folder. Extract the private folder. Keep the private folder in one directory with the yin script and the extraction and analysis scripts. The Calls_bat... .m files contain already extracted variables for each bat and can be used directly with the analysis script.

Research data management services platform supporting reproducible research, collaboration, and FAIR data

- Version control for data
- Collaborative sharing of datasets
- Integration with lab data management routines
- No constraints on data formats, no lock-in
- Content indexing for common formats
- Data publication

Self-hosting of independent instances: Can be set up locally (in the lab or institution)

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Dataset

A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices

Frederik Filip Stæger¹, Kristian Mortensen¹, Louis Kaufmann¹, Hajime Hirase¹, Björn Sigurdsson¹, Maliken Nedergaard²

¹Center for Translational Neuromedicine, Faculty of Health and Medical Sciences, University of Copenhagen, 2200 Copenhagen, Denmark

²Center for Translational Neuromedicine, Faculty of Health and Medical Sciences, University of Copenhagen, 2200 Copenhagen, Denmark and Center for Translational Neuromedicine, University of Rochester Medical Center, Rochester, NY 14642, USA.

10.12751/g-node.1545d5 [BROWSE REPOSITORY](#) [BROWSE ARCHIVE](#) [DOWNLOAD DATASET ARCHIVE \(ZIP 105 GiB\)](#)

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Description

The full data set and pipeline for constructing the three-dimensional, population-based average of the C57BL/6 mouse brain form DAPI-stained coronal slices. This repository also contains a python implementation of automatic coronal brain slice segmentation. The data set constitutes of all the raw slice images (.tif) in full resolution, the pre-processed version (.nii), the individually reconstructed brain volumes, and the final population-based average.

Keywords

Neuroscience | Mouse brain template | C57BL/6 brain template | DAPI | Population-based average | Automatic segmentation |

References

A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices

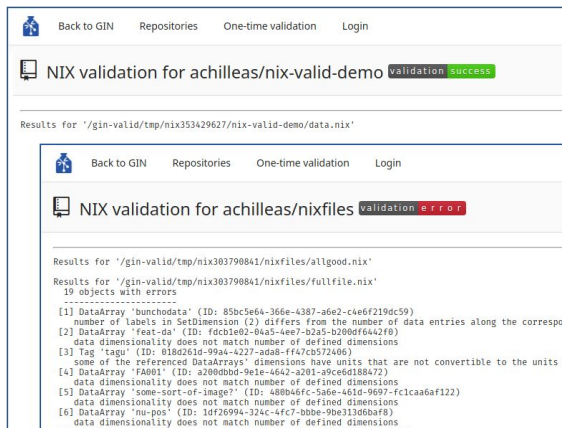
Citation

This dataset can be cited as:

Stæger F, Mortensen K, Kaufmann L, Hirase H, Sigurdsson B, Nedergaard M, (2020) A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices. G-Node. doi:10.12751/g-node.1545d5

Dataset publishing

- Publish datasets or code with a button click
- Persistent identifiers (DOI)
- Recommended by *Nature Scientific Data*, *PLOS*, *eLife*



The screenshot shows the NIX validation service interface. At the top, there are navigation links: 'Back to GIN', 'Repositories', 'One-time validation', and 'Login'. Below this, there are two validation status indicators: 'NIX validation for achilleas/nix-valid-demo' with a green 'validation success' badge, and 'NIX validation for achilleas/nixfiles' with a red 'validation error' badge. The 'validation error' section shows a list of 19 objects with errors, including 'bunchodata', 'feat-da', 'tagu', 'FAB01', and 'nu-pos', each with a detailed error message regarding dimensionality and units.

Validation service (beta)

- Automatic validation of supported formats (NIX, odML, BIDS, ...)



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