

# GIN: Open platform and services for efficient research data management, collaboration and data publication

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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*

File	Commit	Message	Time
scripts	26878567f6	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	af2a5e0fd1	'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.

**Datacite....**

Field	Value
Title	Vocal production learning in the pale spear-nosed bat, <i>Phyllostomus discolor</i>
Authors	Lattenkamp, Ella Z.; ORCID:0000-0002-8928-8770 Vernes, Sonja C.; ORCID:0000-0003-0305-4584 Wiegand, Lutz; ORCID:0000-0002-9289-6187
Description	Raw data set and extracted data; incl. extraction and analysis scripts. Extract the raw recordings in one 'recordings' folder. Ext...
License	Creative Commons CC0 1.0 Public Domain Dedication ( <a href="https://creativecommons.org/publicdomain/zero/1.0/">https://creativecommons.org/publicdomain/zero/1.0/</a> )
References	
Funding	Human Frontiers Science Program Research Grant, RGP0058/2016 Max Planck Research Group Award
Keywords	Vocal production learning pitch adjustment frequency contour imitation
Resource Type	Dataset and scripts

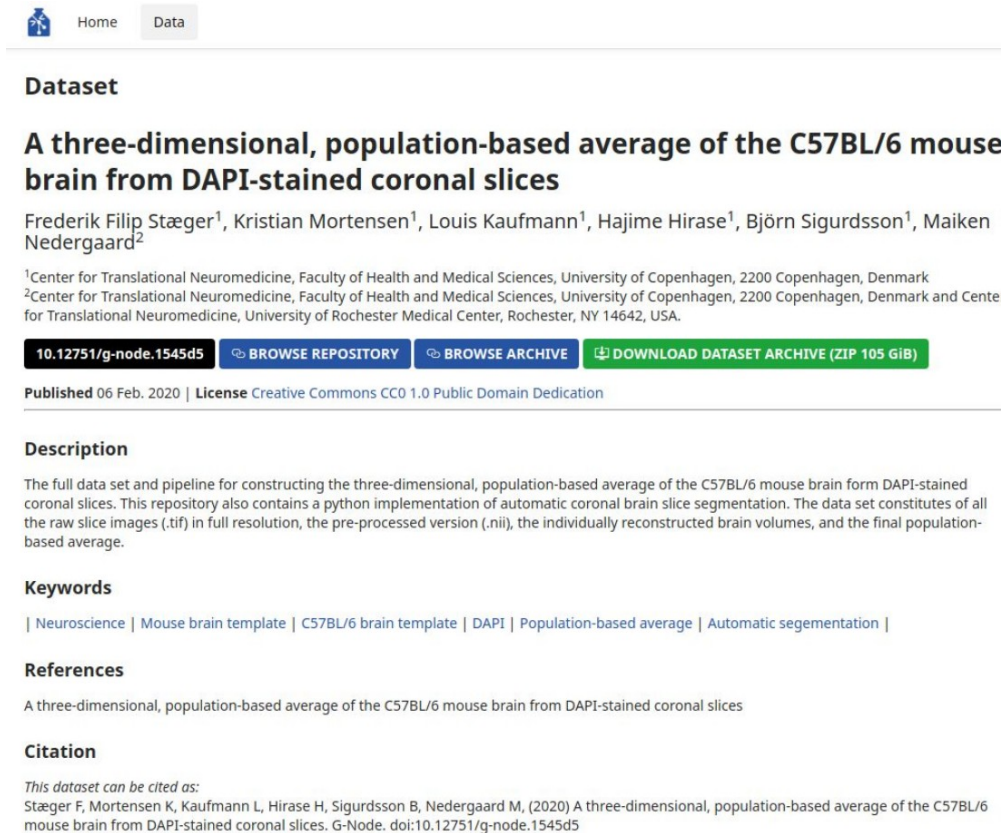
- Free to use
- Unlimited\* storage
- Collaborative repos/datasets
- Public or private
- Web or git/ssh uploads & downloads
- Rendering for supported files
  - Structured formats:  
odML, JSON, YAML, Markdown
  - Media and documents:  
Images, Videos, PDF
- Indexing and search for text and documents
- Neuroscientific service recommended by



**PLOS**



**eLife**



The screenshot shows the GIN dataset page for a mouse brain dataset. It includes a navigation bar with 'Home' and 'Data' links. The main title is 'A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices'. Below the title are the authors' names and their affiliations. There are three buttons: 'BROWSE REPOSITORY', 'BROWSE ARCHIVE', and 'DOWNLOAD DATASET ARCHIVE (ZIP 105 GiB)'. The page also includes a description, keywords, and references.

**Dataset**

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

Frederik Filip Stæger<sup>1</sup>, Kristian Mortensen<sup>1</sup>, Louis Kaufmann<sup>1</sup>, Hajime Hirase<sup>1</sup>, Björn Sigurdsson<sup>1</sup>, Maiken Nedergaard<sup>2</sup>

<sup>1</sup>Center for Translational Neuromedicine, Faculty of Health and Medical Sciences, University of Copenhagen, 2200 Copenhagen, Denmark  
<sup>2</sup>Center 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 from 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**

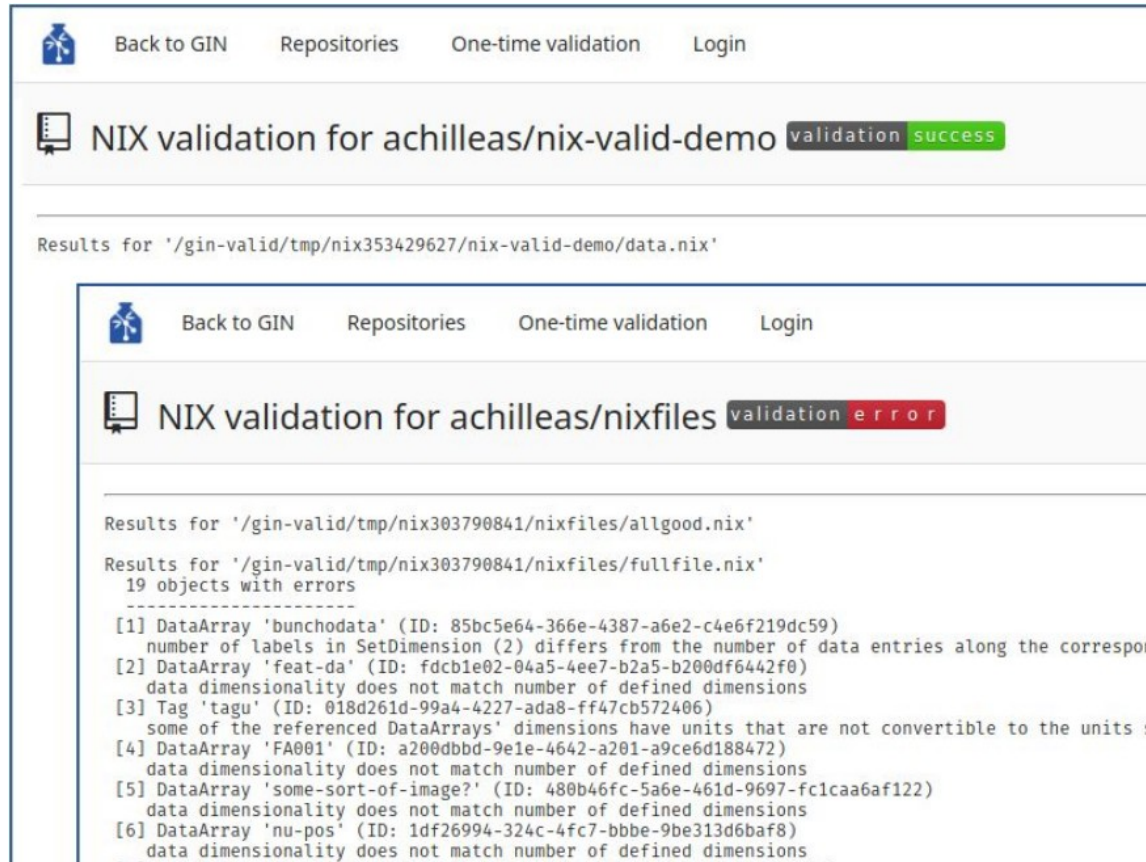
*This dataset can be cited as:*  
Stæger F, Mortensen K, Kaufmann L, Hirase H, Sigurdsson B, Nedergaard M, (2020) A three-dimensional, population-based average of the C57BL/6 mouse brain from DAPI-stained coronal slices. G-Node. doi:10.12751/g-node.1545d5



## Dataset publishing (DOI)

- Publish datasets or code hosted on GIN
- Persistent identifier for referencing
- Permanent archive of your data and/or code



The screenshot shows the GIN Validation service web interface. At the top, there are navigation links: 'Back to GIN', 'Repositories', 'One-time validation', and 'Login'. The main heading is 'NIX validation for achilleas/nix-valid-demo' with a green 'validation success' badge. Below this, it says 'Results for '/gin-valid/tmp/nix353429627/nix-valid-demo/data.nix''. A second, smaller version of the interface is shown below, with the heading 'NIX validation for achilleas/nixfiles' and a red 'validation error' badge. It shows 'Results for '/gin-valid/tmp/nix303790841/nixfiles/allgood.nix'' and 'Results for '/gin-valid/tmp/nix303790841/nixfiles/fullfile.nix'' with '19 objects with errors'. A list of errors follows, including issues with DataArray dimensions and Tag units.

Back to GIN   Repositories   One-time validation   Login

NIX validation for achilleas/nix-valid-demo **validation success**

Results for '/gin-valid/tmp/nix353429627/nix-valid-demo/data.nix'

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Back to GIN   Repositories   One-time validation   Login

NIX validation for achilleas/nixfiles **validation error**

Results for '/gin-valid/tmp/nix303790841/nixfiles/allgood.nix'

Results for '/gin-valid/tmp/nix303790841/nixfiles/fullfile.nix'

19 objects with errors

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- [1] DataArray 'bunchodata' (ID: 85bc5e64-366e-4387-a6e2-c4e6f219dc59)  
number of labels in SetDimension (2) differs from the number of data entries along the correspond
- [2] DataArray 'feat-da' (ID: fdcbe02-04a5-4ee7-b2a5-b200df6442f0)  
data dimensionality does not match number of defined dimensions
- [3] Tag 'tagu' (ID: 018d261d-99a4-4227-ada8-ff47cb572406)  
some of the referenced DataArrays' dimensions have units that are not convertible to the units s
- [4] DataArray 'FA001' (ID: a200dbbd-9e1e-4642-a201-a9ce6d188472)  
data dimensionality does not match number of defined dimensions
- [5] DataArray 'some-sort-of-image?' (ID: 480b46fc-5a6e-461d-9697-fc1caa6af122)  
data dimensionality does not match number of defined dimensions
- [6] DataArray 'nu-pos' (ID: 1df26994-324c-4fc7-bbbe-9be313d6baf8)  
data dimensionality does not match number of defined dimensions

## File validation service (beta)

- Automatic validation of NIX, odML, and BIDS files in GIN repositories
- Can be easily extended to support more formats