

Maintaining reproducible data workflows while keeping data in sync, backed up, and easily accessible from within and outside the lab is a growing challenge in research. To help minimize the time and effort required for these tasks, the GIN services provide support for comprehensive, reproducible and versioned management of scientific data throughout the data lifecycle.

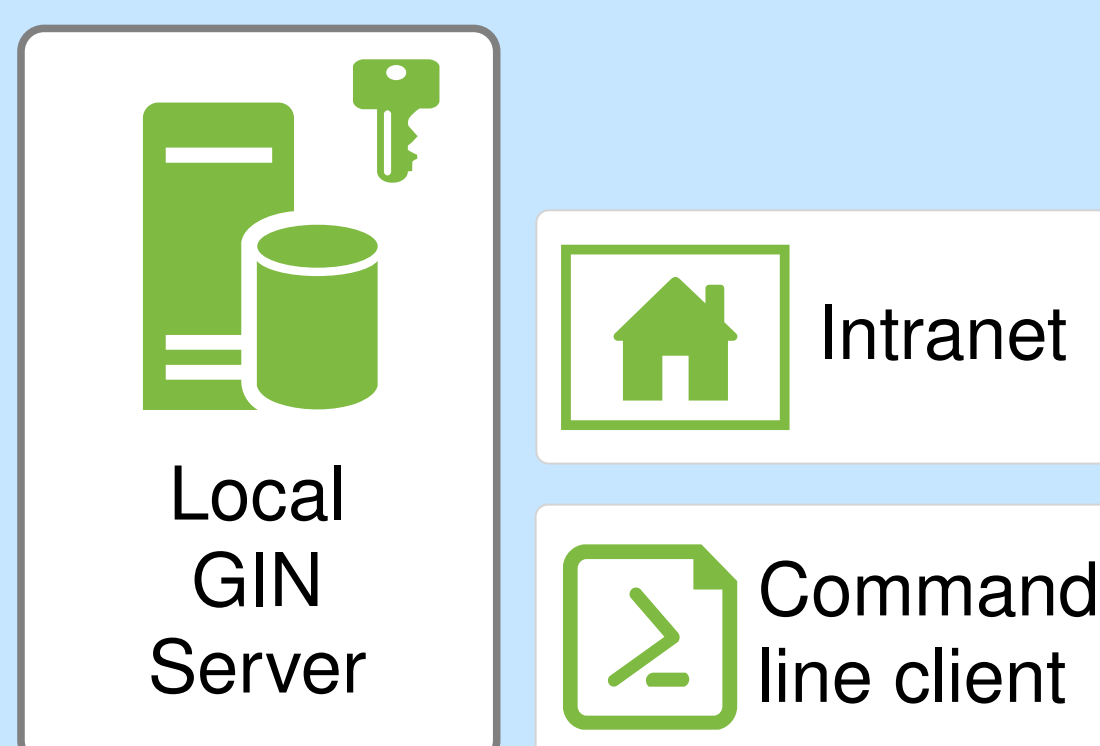
GIN Services for Data Storage, Collaboration and Data Publication




GIN core features

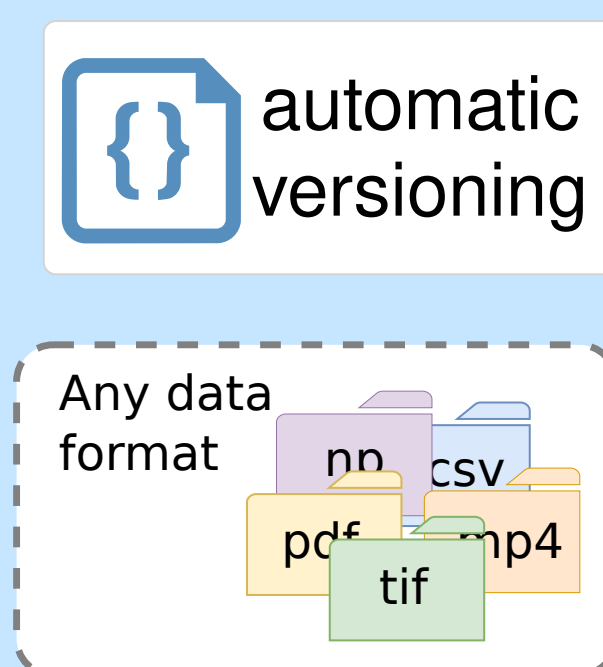
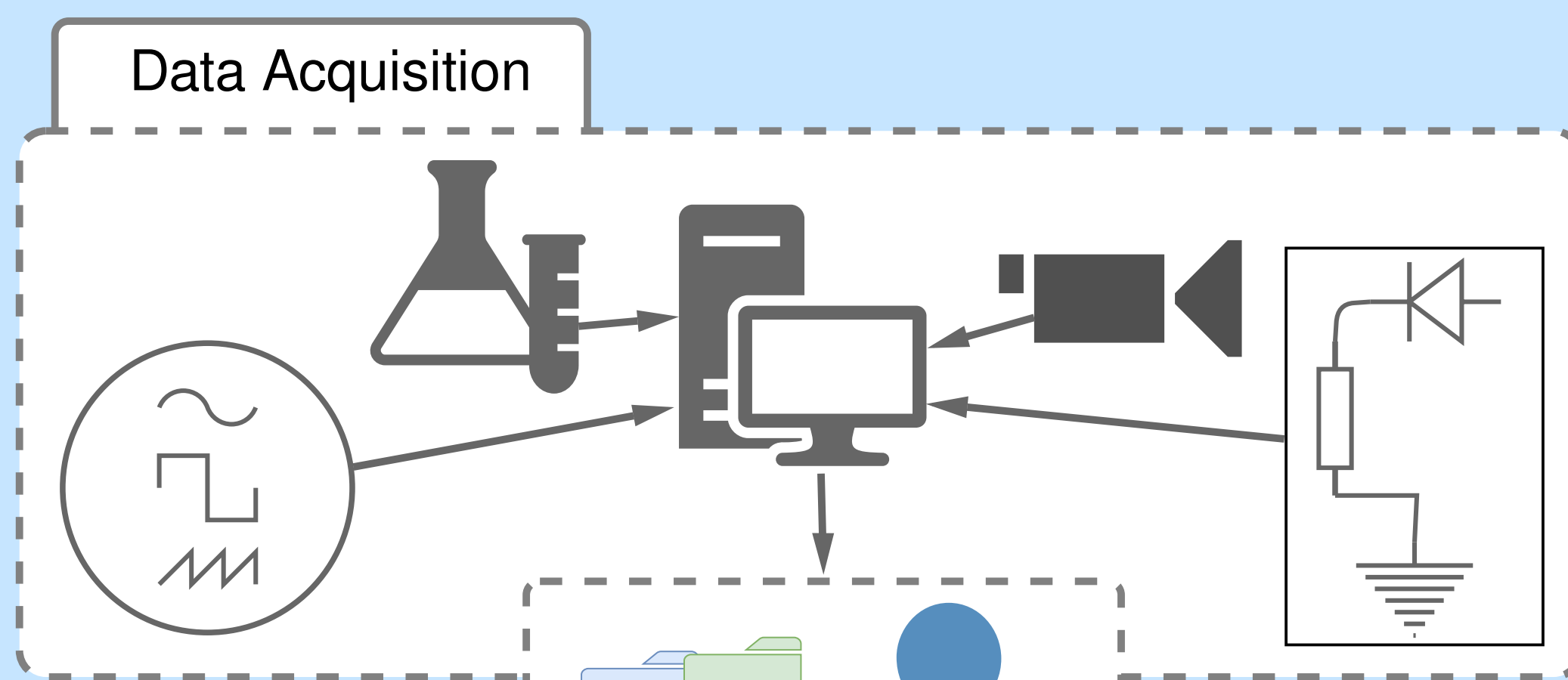
- Access data from any location
- Built-in versioning
- Platform and format independent
- Secure access
- Public and private repositories

In-lab Local Instance



Local Hosting

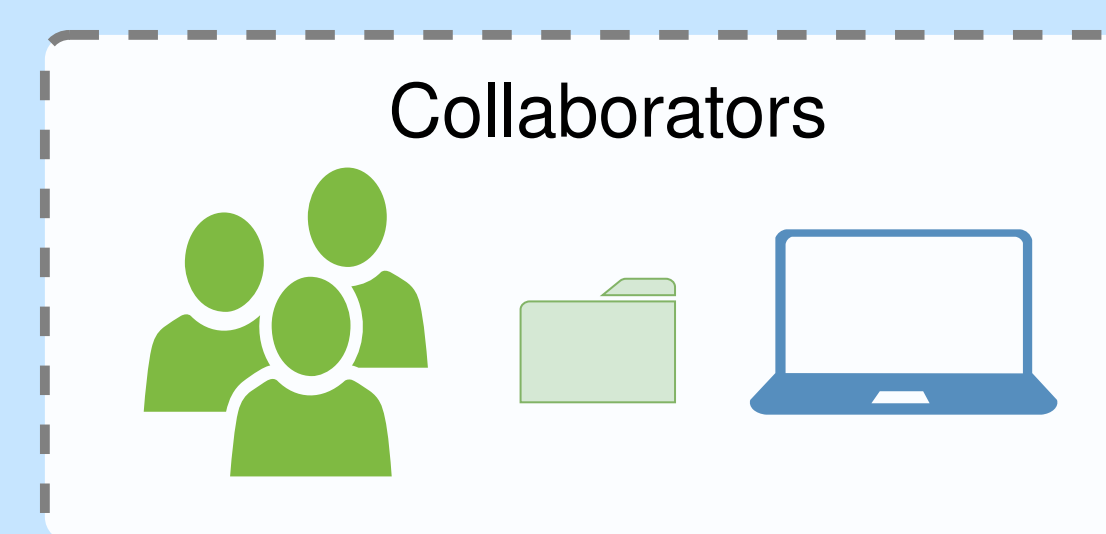
- GIN is open source
- prebuilt docker containers for easy installation 
- use your own data storage
- set up documentation



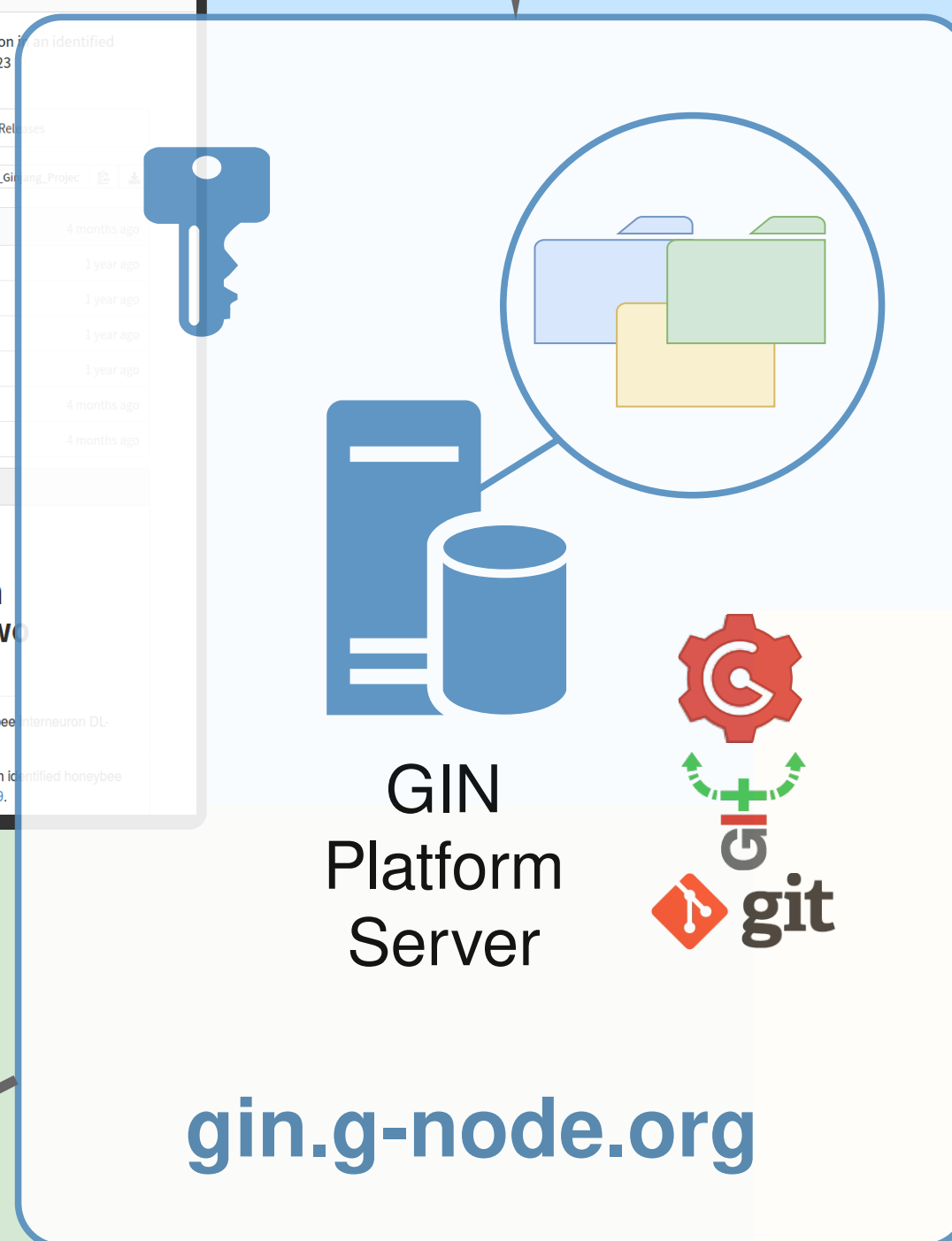
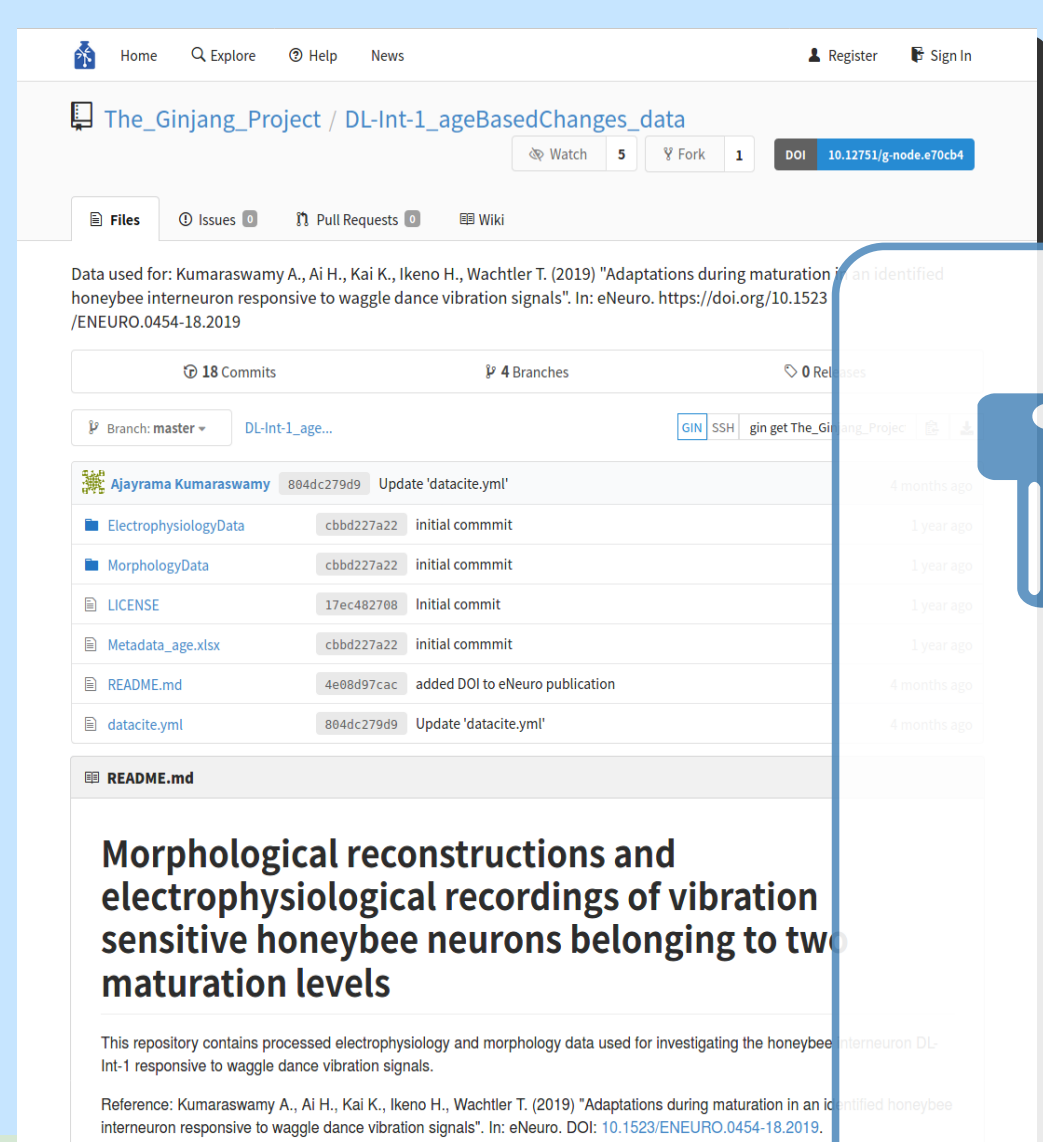
Supporting research data management throughout the data lifecycle

- Version control for code and data
- Efficient collaboration through access control and tracking of changes
- Validation services to ensure data quality
- Data publication (DOI) with a button click

Collaboration



- User management
- User access levels
- On and offsite collaboration
- Online issues help coordination
- Ensure repository integrity with versioning and "Pull requests"



Data Publication and Findability

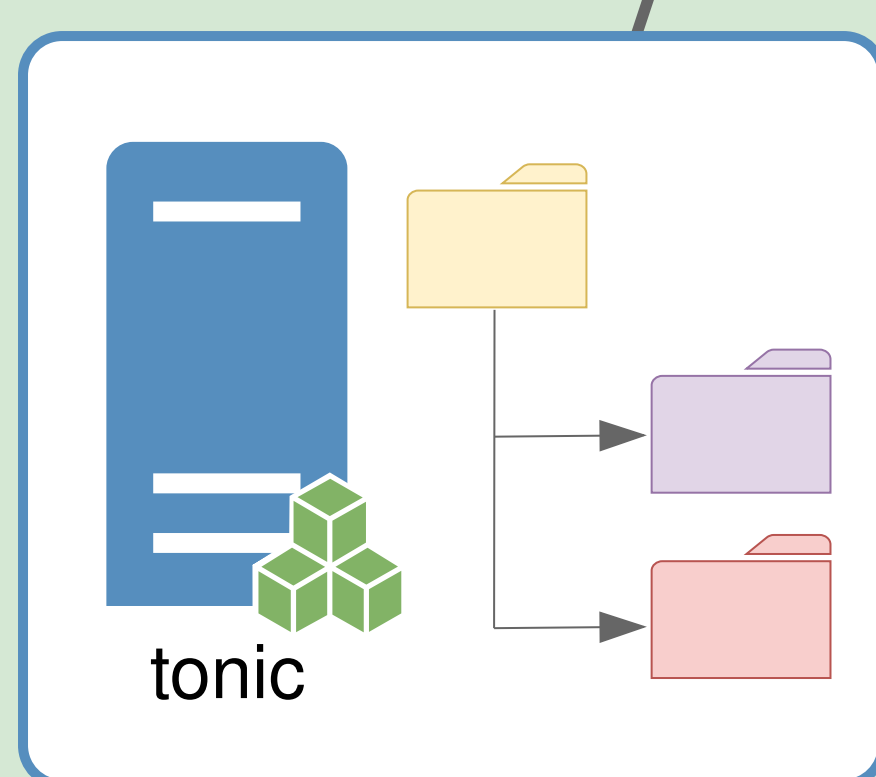
Automation and Validation



Data validation service
valid.gin.g-node.org

Automated Data Validation

- Automatically runs validation on selected repositories
- Supported validation formats:
 - BIDS
 - odML
 - NIX
- Easily extensible to more formats
- Format validation contributions are welcome



Automated repository handling

- Create custom apps interacting with the GIN API
- Automate repository setup
- Manage lab-wide permissions
- Create repository templates

Findable Data via GIN

- Automatic indexing of text based files
- Online search for repository content
- Interactive rendering of markdown formats



DOI service
doi.gin.g-node.org

Recommended by:



Data Publication

- Persistent identifiers (DOI)
- Easy DOI assignment
- Link to publications

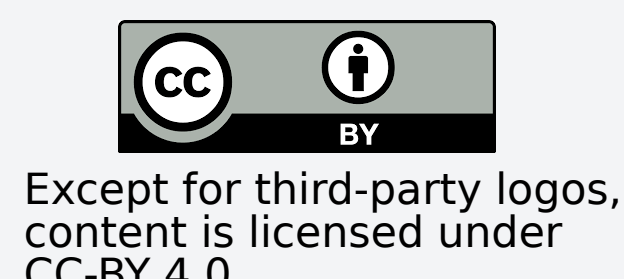
Contact us at
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Resources and References



Contact:
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Poster presented at
BCCN 2022



GIN (RRID:SCR_015864):

BIDS (RRID:SCR_016124):

NIX (RRID:SCR_016196):

odML (RRID:SCR_001376):

DataLad (RRID:SCR_003931):

<https://gin.g-node.org>

<https://gin.g-node.org/G-Node/in-house-gin>

<http://bids.neuroimaging.io>

<http://www.g-node.org/nix>

<http://www.g-node.org/odml>

<https://datalad.org>

<https://github.com/G-Node/tonic>



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