

2. Study inception and planning

2.1. Study Preparation and Piloting

protocols.io	https://www.protocols.io	Platform for sharing protocols	General	
Protocol exchange	https://protocolexchange.researchsquare.com	Repository for sharing protocols sponsored by Nature Portfolio	General	
Nature protocols	https://www.nature.com/nprot	Journal to publish secondary research articles - predominantly Protocols	General	
Example SOP for MRI	https://osf.io/6r9f8	Example SOP for MRI	MRI	
Example SOP for EEG	https://protocolexchange.researchsquare.com/article/pe	Farrens et al. EEG Recording Protocol for Cognitive and Affective Human Neuroscience Research	EEG	10.21203/rs.2.18328/v2
SOP of the HCP for MRI	https://www.humanconnectome.org/storage/app/media/	Example SOP of the HumanConnectomeProject for MRI	MRI	
SOP of the HCP for MEG	https://www.humanconnectome.org/storage/app/media/	Example SOP of the HumanConnectomeProject for MEG	MEG	
BrainVerse	https://github.com/repronim/brainverse	Desktop application for reproducible practices (electronic lab notebook, semantic annotation, etc)		
Hitchhackers	https://learn-neuroimaging.github.io/hitchhackers_guide	Guide with links and resources for neuro-needs	General	
BrainPower	https://brainpower.readthedocs.io/en/latest	Power analysis in neuroimaging	General	

2.2. Pre-registration

OSF preregistration	https://osf.io/registries	OSF preregistration platform including templates and forms for different types of preregistration	General	
Aspredicted.org	https://aspredicted.org/	A simplified form for pre-registration	General	
Clinicaltrials.gov	https://clinicaltrials.gov/	Pre-registration of clinical trials (NIH requires a pre-registration for clinical trials)	General	
Center for Open Science (Preregistration)	https://www.cos.io/initiatives/prereg	General information about pre-registration	General	
Center for Open Science (Registered Reports)	https://www.cos.io/initiatives/registered-reports	General information about registered reports	General	
Tips for pre-registrations (from OHBM)	https://www.ohbmbrianmappingblog.com/blog/pre-regis	A blog post sponsored by OHBM with tips for pre-registration	General	
fMRI-prereg	https://github.com/jessicafflannery/fmri-prereg	Pre-registration template for fMRI studies. Extended OSF template.	fMRI	
EEG ERP Preregistration Template	https://osf.io/preprints/metaarxiv/4nvt/	EEG ERP Preregistration Template	EEG	10.31222/osf.io/4nvt
List of pre-registration examples	https://docs.google.com/spreadsheets/d/1_R3UBKvT4	List of neuroimaging and electrophysiology pre-registrations	General	
Examples of preregistered M/EEG studies	http://mneimai.org/eeeg-meg-preregistration/	EEG/MEG articles with (some form of) preregistration by Natalie Schaworonkoff	M/EEG	

[See Reporting section in 6.4. Publication of scientific results]

2.3. Ethical review and data sharing plan

Open Brain Consent	https://open-brain-consent.readthedocs.io/	Examples to prepare consent forms including a EU GDPR-compliant template (multiple languages)	General	10.5281/zenodo.4264941
TTW: Guide for Ethical Research	https://the-turing-way.netlify.app/ethical-research	The Turing Way - Guide for Ethical Research covers topics related to ethical aspects in data science	General	10.5281/zenodo.3233986

2.4. Looking at the data early and often: Monitoring quality

MRIQC	https://mriqc.readthedocs.io/en/latest/	Data quality control software for MRI	MRI	10.1371/journal.pone.0184661
qaala-T	https://qaala-t.shinyapps.io/qaala-t_app/	Quality control of FreeSurfer segmented MRI data	MRI	10.5281/zenodo.4575464
visual QC	https://raamana.github.io/visualqc/readme.html	Assistive tool to improve the quality control workflow of MRI/fMRI/dMRI data	MRI	10.5281/zenodo.3266381
MRI QC Book	https://www.nipreps.org/qc-book/welcome.html	Hands-on quality control of human and preclinical MRI data: from acquisition to post processing	MRI	

3. Data acquisition

3.1. Brain data acquisition and reconstruction

Open Source Imaging	https://www.opensourceimaging.org	Open source soft- and hardware reserach and development projects around MRI	MRI	
MRhub	https://ismrm.github.io/mrhub/	Index of open-source tools developed by the ISMRM community	MRI	
qmLab	http://qmrlab.org/	MATLAB/Octave open-source software for quantitative MR image analysis	MRI	10.21105/joss.02343
Pulseq	https://pulseq.github.io/	Open source framework for the development and execution of MR pulse sequences	MRI	
PyPulseq	https://github.com/imr-framework/pypulseq	Python package for MRI pulse sequence design	MRI	10.21105/joss.01725
GammaStar	https://gamma-star.mevis.fraunhofer.de/#/	Portable and platform-independent MR pulse sequence programming framework	MRI	10.1002/mrm.28020
TOPPE	https://www.opensourceimaging.org/project/toppe-rapid	Modular framework for rapid prototyping of pulse sequences on General Electric MRI scanners	MRI	
ODIN	http://od1n.sourceforge.net/	C++ software framework to develop and simulate magnetic resonance sequences	MRI	10.1016/j.jmr.2004.05.021
SequenceTree	https://github.com/magland/sequencetree4	Pulse sequence programming in a dynamic visual environment	MRI	
ISMIR Raw data format	https://ismmrd.github.io/apidocs/1.4.2/	Standard for MRI raw datasets	MRI	10.1002/mrm.26089
Gadgetron	http://gadgetron.github.io/	Open source framework for medical image reconstruction	MRI	10.1002/mrm.24389 - 10.1002/mrm.25213
BART	https://mrirecon.github.io/bart/	Open source image-reconstruction framework for computational MRI	MRI	10.5281/zenodo.4570601

MRIReco.jl	https://github.com/MagneticResonanceImaging/MRIReco	MRI reconstruction framework	MRI	10.48550/arXiv.2101.12624
Vendor-neutral sequences (VENUS)	https://github.com/qmrlab/venus	Open-source pulse sequences integrated with qMRLab for reproducible quantitative imaging	MRI	
SigPy	https://sigpy.readthedocs.io/en/latest/	Package for signal processing, iterative methods, MRI reconstruction and MRI pulse design	MRI	10.5281/zenodo.5893788
MRM Highlights	https://blog.ismrm.org/category/highlights/	An MRI science communication platform endorsed by Magnetic Resonance in Medicine	MRI	
MNE-Python Maxwell filter	https://mne.tools/dev/generated/mne.preprocessing.ma	MNE-Python Maxwell filter implementation (equivalent to Elekta's proprietary Maxfilter)	MEG	
OpenBCI	https://openbci.com	Initiative for open EEG hardware and tools for biosensing	EEG	

3.2. Stimulus presentation and behaviour

Psychopy	https://www.psychopy.org/	Python-based toolbox for stimulus presentation	General	10.3758/s13428-018-01193-y
Psychtoolbox	http://psychtoolbox.org/	MATLAB/Octave based toolbox for stimulus presentation	General	
Pavlovía	https://pavlovía.org	Already implemented task protocols	General	
ReproStim	https://github.com/ReproNim/reprostim	Video capture and recording suite for neuroimaging and psychology experiments	General	
ERP CORE	https://erpinfo.org/erp-core	Optimized paradigms for ERP components including scripts and data processing pipelines	EEG	10.18115/D5JW4R

4. Research Data Management

4.1. Data standard: BIDS

BIDS	www.bids-standard.org	Community-driven standard for organizing, describing and sharing neuroimaging data	General	
BIDS specification	https://bids-specification.readthedocs.io/en/stable/	Specification with details for different neuroimaging modalities	General	
BIDS validator	https://bids-standard.github.io/bids-validator/	Validator to easily check whether a dataset meets the standard	General	
BIDS starter kit	https://bids-standard.github.io/bids-starter-kit/	Simplifies the learning process for newcomers	General	
BIDS examples	https://github.com/bids-standard/bids-examples	Example files following BIDS organization	General	
BIDS converters				
BIDS available converters	https://bids.neuroimaging.io/benefits.html#converters	BIDS available converters for different modalities	General	
HeuDiConv	https://github.com/nipy/heudiconv	BIDS converter for MRI data	MRI	10.5281/zenodo.6544633
dcm2bids	https://github.com/UNFMontreal/Dcm2Bids	BIDS converter for MRI data	MRI	10.5281/zenodo.6658099
Data2Bids	https://github.com/SIMEXP/Data2Bids	BIDS converter for MRI data	MRI	
ReproIn	https://zenodo.org/record/3625000#.Yk8fS27MJJQ	Generation of version-controlled BIDS datasets from MR scanners, using HeuDiConv and DataLad	MRI	10.5281/zenodo.3625000
PET2BIDS	https://github.com/openneuroPET/PET2BIDS	BIDS converter for PET data	PET	
MNE-BIDS	https://mne.tools/mne-bids/stable/index.html	BIDS converter for MEEG data as part of the MNE-Python software	M/EEG,iEEG	10.5281/zenodo.6359371
Fieldtrip data2bids	https://www.fieldtriptoolbox.org/reference/data2bids/	BIDS converter for MEEG data as part of the FieldTrip toolbox	M/EEG	
Brainstorm BIDS tools	https://neuroimage.usc.edu/brainstorm/ExportBids	BIDS converter for MEEG data as part of the Brainstorm toolbox	M/EEG	
EEGLAB bids-matlab-tools	https://github.com/scn/bids-matlab-tools	BIDS converter for EEG data as part of the EEGLAB toolbox	EEG	
Interaction with BIDS datasets				
pyBIDS	https://github.com/bids-standard/pybids	Python library centralizing interactions with datasets conforming BIDS	General	10.5281/zenodo.6412479
BIDS-Matlab	https://github.com/bids-standard/bids-matlab/	Matlab library centralizing interactions with datasets conforming BIDS	General	10.5281/zenodo.5910585
rbids	https://rdr.io/github/mathesong/rbids/	R Package To Access BIDS Datasets	General	
ancpBIDS	https://github.com/ANCPLabOldenburg/ancp-bids	Lightweight python library with schema support centralizing interactions with datasets conforming BIDS.	General	
BIDS apps	https://bids-apps.neuroimaging.io/	Container images capturing neuroimaging pipelines for BIDS formatted datasets	General	
Interaction with the BIDS community				
BIDS email discussion list	https://groups.google.com/g/bids-discussion	Email list for discussion of issues and BIDS extensions	General	
Neurostars: BIDS tag	https://neurostars.org/	Question&Answer forum for neuroscience researchers, infrastructure providers and software developers	General	
Brainhack Mattermost: BIDS channel	https://mattermost.brainhack.org/	Communication channel part of the Brainhack project	General	

4.2. Metadata and data annotation

Hierarchical Event Descriptor (HED)	https://www.hedtags.org/	Framework for systematically describing events using a controlled but extensible vocabulary	General	
InterLex	https://neuinfo.org/interlex/dashboard	Project to define mapping between different data terminologies	General	
The Cognitive Atlas	http://www.cognitiveatlas.org	Knowledge base (or ontology) that characterizes the state of current thought in cognitive science	General	10.3389/fninf.2011.00017
The Cognitive Paradigm Ontology (CogPO)	http://www.cogpo.org/	Linked ontology about the structure and function of the brain	General	
PROV vocabulary	https://www.w3.org/ns/prov	Enable the interoperable interchange of provenance information in heterogeneous environments	General	
The Neuroimaging Data Modeling (NIDM)	http://nidm.nidash.org/	Collection of specifications for experiment description and results of neuroimaging analysis	MRI	
NIDM-Terms	https://nidm-terms.github.io/	Collection of community-developed controlled vocabularies of publicly-available neuroimaging data	MRI	

PyNIDM	https://github.com/ncf-nidash/PyNIDM	Python library to manipulate the NIDM	MRI	
4.3. Data management and tracking				
DMP Online	https://dmponline.dcc.ac.uk/	A resource to create, review, and share Data Management Plans.	General	
DataLad	datalad.org	Managing and version controlling digital files	General	10.5281/zenodo.6845396
DataLad Handbook	http://handbook.datalad.org/en/latest/	description why and how to use DataLad	General	10.5281/zenodo.6463273
Brainlife	https://brainlife.io	Free cloud platform for secure neuroscience data analysis	General	
XNAT	https://www.xnat.org	Platform for management, productivity and quality assurance of imaging and associated data	MRI	

5. Data processing and analysis

5.1. Software as a research instrument

General				
Nibabel	https://nipy.org/nibabel/	Read/write access to some common neuroimaging file formats (NiPy)	General	
NiPype	https://nipy.readthedocs.io/en/latest/	Interface to facilitate interaction between neuroimaging sw packages within a single workflow (NiPy)	General	10.5281/zenodo.6658382
The Good Research Code Handbook	https://goodresearch.dev/	The Good Research Code Handbook by Patrick Mineaul	General	10.5281/zenodo.6834519
Neuroimaging and data science Book	http://neuroimaging-data-science.org	Jupyter book for a practical introduction to neuroimaging and data science by Ariel Rokem & Tal Yarkoni	General	10.5281/zenodo.5796873
Python for the practicing neuroscientist [See 6.2. Methodological transparency]	https://elifesciences.org/labs/779833b	Python for the practicing neuroscientist: an online educational resource	EEG	
Neuroimaging MRI				
AFNI	https://afni.nimh.nih.gov/	Software for analysis and display of multiple MRI modalities (C, Python, R)	MRI	10.1006/cbmr.1996.0014
ANTs	http://stnava.github.io/ANTs/	Advanced Normalization Tools for MRI analysis	MRI	
Freesurfer	https://surfer.nmr.mgh.harvard.edu/	Software suite for processing and analyzing (human) brain MRI images	MRI	
FSL	https://fsl.fmrib.ox.ac.uk/fsl/fslwiki/FSL	Library of analysis tools for FMRI, MRI and DTI brain imaging data (only free for academic use)	MRI	
SPM	https://www.fil.ion.ucl.ac.uk/spm/	Designed for the analysis of brain imaging data sequences (Matlab)	MRI,PET,M/EEG	
Neuroimaging MEG & EEG				
Brainstorm	https://neuroimage.usc.edu/brainstorm/Introduction	Analysis of brain recordings and multiunit electrophysiology (Matlab)	M/EEG,iEEG,ñNIRS	
EEGLAB	https://sccn.ucsd.edu/eeglab/index.php	Processing continuous and event-related EEG, MEG and other electrophysiological data (Matlab)	EEG	
Fieldtrip	https://www.fieldtriptoolbox.org/	Toolbox for MEG, EEG and iEEG analysis (Matlab)	M/EEG,iEEG,ñNIRS	10.1155/2011/156869
MNE-Python	https://mne.tools/stable/index.html	Exploring, visualizing, and analyzing human neurophysiological data (Python)	M/EEG,iEEG,ñNIRS	10.5281/zenodo.7019768
Neuroimaging PET				
PETSurfer	https://surfer.nmr.mgh.harvard.edu/fswiki/PetSurfer	Part of FreeSurfer, Coregistration with MRI, partial volume correction and kinetic modelling (RTM only)	PET	
Kinfitr	https://github.com/mathesong/kinfitr	PET Kinetic Modelling using R, kinfitr is a package for PET Kinetic Modelling Using R	PET	10.1101/755751
PETPVE12	https://github.com/GGonEsc/petpve12	An SPM toolbox for Partial Volume Effects correction of PET images	PET	10.1016/j.neuroimage.2016.12.077

5.2. Standardized preprocessing and workflows

NIPreps	https://github.com/nipreps	Summary of neuroimaging preprocessing tools	MRI	
fMRIPrep	https://fmriprep.org/en/stable/	Robust preprocessing pipeline for fMRI data	MRI	10.1038/s41592-018-0235-4
HCP Pipelines	https://github.com/Washington-University/HCPpipelines	Set of tools for processing MRI images for the HCP	MRI	
C-PAC	https://fcp-indi.github.io/	Preprocessing and analysis pipeline for resting state fMRI	MRI	
QSIprep	https://qsiprep.readthedocs.io/en/latest/	Preprocessing and analysis of q-space images	MRI	
Connectome Mapper	https://connectome-mapper-3.readthedocs.io/en/latest/	Full anatomical, diffusion and resting-state MRI processing pipeline for connection matrices	MRI	10.5281/zenodo.6645256
TractoFlow	https://tractoflow-documentation.readthedocs.io/en/latest/	Pipeline for diffusion MRI datasets from the raw data to the tractography	MRI	10.1016/j.neuroimage.2020.116889
NIAC	https://niak.simexp-lab.org/build/html/index.html	Neuroimaging Analysis Kit: pipelines for preprocessing and mining connectomes	MRI	
Neurosynth	https://neurosynth.org/	Platform for large-scale, automated synthesis of fMRI data	MRI	
BrainMap	http://www.brainmap.org/	Database of published neuroimaging experiments with coordinate-based results in Talairach or MNI space	MRI	
NIMARE	https://nimare.readthedocs.io/en/latest/	Neuroimaging Meta-Analysis Research Environment	MRI	10.5281/zenodo.6642243
neuroquery	https://neuroquery.org	Generate brain maps by querying the neuroscience literature	MRI	10.7554/eLife.53385
qMRFlow	https://github.com/qMRLab/qMRFlow	Pipelines for end-to-end quantitative MRI processing	MRI	
Appian	https://github.com/APPIAN-PET/APPIAN	PET pipeline: coregistration, partial-volume correction, quantification with tracer kinetic modeling	PET	10.3389/fninf.2018.00064
MNE-BIDS Pipeline	https://mne.tools/mne-bids-pipeline/	Full processing pipeline for BIDS formatted MEG and EEG data	M/EEG	

Containers

Docker	https://www.docker.com/	To package specific versions of heterogeneous dependencies and ensure cross-platform compatibility	General	
Apptainer/Singularity	https://apptainer.org/	To package specific versions of heterogeneous dependencies and ensure cross-platform compatibility	General	
NeuroDocker	https://github.com/ReproNim/neurodocker	Command-line program to generate neuroimaging Docker/Singularity files and minify containers	General	10.5281/zenodo.3753248
ReproMan	https://github.com/repronim/reproman	Simplify the creation and management of computing environments in Neuroimaging	General	

5.3. Statistical modeling and advanced analysis

scikit-learn	https://scikit-learn.org/stable/	Machine learning analyses in Python	General	
Nilearn	https://nilearn.github.io/	Open source python library for advanced analyses of fMRI data	MRI	10.3389/fninf.2014.00014
PyMVPA	http://www.pympva.org/	Python package intended to ease statistical learning analyses of large datasets	MRI	10.1007/s12021-008-9041-y
Neuroscout	https://neuroscout.org/	Platform for fast and flexible re-analysis of (naturalistic) fMRI studies	MRI	
FitLins	https://fitlins.readthedocs.io/en/latest/model.html	Reference workflow that fits BIDS-SM using AFNI or Nilearn	MRI	10.5281/zenodo.6397685
BIDS-SM	https://docs.google.com/document/d/1bq5eNDHTb6Nk	BIDS stats model standard, implementation-independent representation of fMRI GLM models	MRI	

5.4. Multiverse analysis

Explorable Multiverse Analyses	https://explorablemultiverse.github.io/	Tool to compare alternative analysis options for a given study	General	10.1145/3290605.3300295
Fuzzy	https://github.com/gklar/fuzzy	Introduces perturbations and keeps track of their influence	General	10.5281/zenodo.6856971
boba	https://github.com/uwdata/boba	Author and visualize multiverse analyses	General	10.48550/arXiv.2007.05551
Neuroimaging Analysis Replication & Prediction Study (NARPS)	https://www.narps.info/	Same fMRI dataset independently analyzed by 70 teams	MRI	10.1038/s41586-020-2314-9
EEGManyPipelines	https://eegmanypipelines.org/	Same EEG dataset is being analyzed independently by many teams	EEG	
Data driven auditory encoding	https://datadrivenauditoryencoding.herokuapp.com/	Example to demonstrate the influence of parameter choice on results in Boos et al. 2021	MRI	

6. Research dissemination

FAIR Principles	https://www.go-fair.org/fair-principles/	Findability, Accessibility, Interoperability, and Reusability	General	10.1038/sdata.2016.18
The Turing Way Community	https://the-turing-way.netlify.app	Open source community-driven guide to reproducible, ethical, inclusive and collaborative data science	General	10.5281/zenodo.6533831
Research Resource Identifier (RRID)	https://scicrunch.org/resources	To promote research resource identification, discovery, and reuse	General	
Licensing				
How to choose a license	https://choosealicense.com/	Step by step guide to choose an appropriate license	General	
Comparison of licences	https://en.wikipedia.org/wiki/Comparison_of_free_and_open_source_software_licences	Wikipedia Comparison of free and open-source software licences	General	
TTW chapter on Licensing	https://the-turing-way.netlify.app/reproducible-research/	Provides criteria for selection of a license	General	
Example: NiPreps Licensing	https://www.nipreps.org/community/licensing/	NiPreps software license: Apache License, Version 2.0	General	

6.1. Data sharing

Platforms: neuro-oriented

OpenNeuro	openneuro.org	Platform for openly share BIDS formatted neuroimaging data	General	
GIN	https://gin.g-node.org	Data management system for comprehensive and reproducible neuroscientific data	General	
Brainlife	https://brainlife.io	Cloud platform for secure neuroscience data analysis	General	
Ebrains	https://ebrains.eu/	Digital research infrastructure by the EU Human Brain Project, for data and tools in brain research	General	
Ebrains data and knowledge sharing	https://ebrains.eu/services/#category0	Supports GDPR compatible data sharing	General	
Canadian Open Neuroscience Platform (CONP)	http://conp.ca	Infrastructure for open-science workflows and sharing neuroscience data	General	
Distributed Archives Neurophy Data Integration (DANDI)	www.dandiarchive.org	The BRAIN Initiative archive for publishing and sharing neurophysiology data	General	
International Neuroimaging Data-Sharing Initiative (INDI)	http://fcon_1000.projects.nitrc.org/	Contains multiple neuroimaging datasets including human and non-human primate neuroimaging data	General	
Neuroimaging Tools & Resources Collaboratory (NITRC)	https://www.nitrc.org/	Neuroimaging tools and resources and data repository	General	
National Institute of Mental Health Data Archive (NDA)	https://nda.nih.gov/	Infrastructure for sharing research data, tools, methods, and analyses	General	

Platforms: generic

OSF	https://osf.io/	For small datasets, study-related files, supplemental information for manuscripts	General	
zenodo	https://zenodo.org/	Repository for research papers, datasets, research software, reports, and other research outputs	General	
figshare	https://figshare.com/	Share files with any format	General	

Large scale neuroimaging repositories

UK Biobank	https://www.ukbiobank.ac.uk/	Biomedical database covering genetic and health data of half a million UK citizens	General	
Human Connectome Project (HCP)	https://www.humanconnectome.org/	Datasets of the Human Connectome Project	MRI	
Adolescent Brain Cognitive Development (ABCD)	https://abcdstudy.org/	Data from a long-term study of brain development and child health	MRI	

StudyForrest	https://www.studyforrest.org	Database for fMRI scans, exetracking data and annotations of the movie Forrest Gump	MRI	
The Open MEG Archive (OMEGA)	https://www.mcgill.ca/bic/neuroinformatics/omega	First open data repository fully dedicated to MEG	MEG	
Cambridge Centre for Ageing&Neuroscience (Cam-CAN)	https://www.cam-can.org/	Epidemiological, cognitive, and neuroimaging data to to study ageing	MRI,MEG	
List of open datasets in ephys	https://github.com/openlists/ElectrophysiologyData	List of openly available electrophysiological data (EEG, MEG, ECoG/iEEG, and LFP) by Tom Donoghue	M/EEG	
6.2. Methodological transparency				
GIT	https://git-scm.com/about	Version control system	General	
GitHub	https://github.com/	Development platform for code sharing	General	
GitLab	https://gitlab.com	DevOps platform	General	
Bitbucket	https://bitbucket.org/product/	Allows planning of projects, collaboration on code	General	
jupyter notebooks	https://jupyter.org/	Web application for creating and sharing computational documents	General	
Binder	https://binder.readthedocs.io/en/latest/	Web application for managing digital repositories	General	
Google Colab	https://colab.research.google.com/	Jupyter notebook service on the cloud that requires no setup to use	General	
DeepNote	https://docs.deepnote.com	Real-time browser application to collaborate and share projects and jupyter notebooks	General	
Software Heritage	https://www.softwareheritage.org/	Collection, preservation, and sharing of all software that is publicly available in source code form	General	
<i>[See 5.1. Software as a research instrument]</i>				
6.3. Derived data sharing				
TemplateFlow	https://www.templateflow.org/	Repository of neuroimaging templates accesible for humans and machines	MRI	10.1101/2021.02.10.430678
Neurovault	https://neurovault.org/	Public repository of unthresholded statistical maps, parcellations and atlases of the brain	MRI,PET	10.3389/fninf.2015.00008
<i>[See 6.1. Data sharing]</i>				
6.4. Publication of scientific results				
Reporting				
COBIDAS MRI	http://www.humanbrainmapping.org/files/2016/COBIDA	Best practices in data analysis and sharing	MRI	10.1101/054262
COBIDAS MEEG	https://cobidasmeeg.wordpress.com/	Best practices in data analysis and sharing	M/EEG	10.31219/osf.io/a8d8x
eCOBIDAS	https://github.com/ohbm/cobidas	A checklist for methods and results reporting for neuroimaging studies	General	
Prototype checklist app for PET	https://remi-gau.github.io/cobidas-PET/#/	Checklist for methods and results reporting for PET studies	PET	
ARTEM-IS	https://osf.io/pvrn6/	Agreed Reporting Template for EEG Methodology - International Standard	EEG	10.17605/osf.io/pvrn6/
Publication				
bioRxiv	https://www.biorxiv.org/	Preprint server for biology	General	
medRxiv	https://www.medrxiv.org/	Preprint server for health sciences	General	
PsyArXiv	https://psyarxiv.com/	Preprint server for psychological sciences	General	
OSF preprints	https://osf.io/preprints	Platform for preprints publication	General	
zenodo	https://zenodo.org/	General purpose repository for research related digital artifacts	General	
Zotero	https://www.zotero.org/	Open reference manager to collect, organize, cite and share research	General	
Jupyter Books	https://jupyterbook.org	Open project for building publication-quality books and documents from computational material		10.5281/zenodo.4539666
Open Research Europe	https://open-research-europe.ec.europa.eu/	Publication and open peer review for research stemming from Horizon 2020/Europe funding	General	
Neurolibre	https://neurolibre.org/	Repository of interactive neuroscience notebooks	General	
CodeOcean	https://codeocean.com	Computational workbench that allows code publication and data upload in capsules.	General	
Aperture	https://www.humanbrainmapping.org/i4a/pages/index.c	Interactive publication tool	General	
F1000Research	https://f1000research.com/	Open research publishing platform with transparent peer review and source data openly available	General	
PREREVIEW	https://prereview.org/	Platform for crowdsourcing of preprint reviews	General	
sherpa	https://v2.sherpa.ac.uk/romeo/	Searchable database for journals' policies	General	
6.5. Beyond publication				
The Turing way	https://the-turing-way.netlify.app/welcome	Open source community-driven guide to reproducible, ethical, inclusive and collaborative data science	General	10.5281/zenodo.6533831
Brainhack	https://brainhack.org/	Collaborative workshop for open neuroscience community including hackathons and unconferences	General	
neuromatch academy	https://academy.neuromatch.io/	Traditional and emerging tools of computational neuroscience and deep learning	General	
Neurohackdemy	https://neurohackdemy.org/	Summer school in neuroimaging and data science	General	
World Wide Neuro	https://www.world-wide.org/Neuro/	Platform for online seminars	General	
OHBM Open Science Room	https://ohbm.github.io/osr2021/	OHBM Open Science Room	General	10.5281/zenodo.4663060

Brainhack School	https://school.brainhackmtl.org/	4 weeks training on neuroimaging with collaborative practical sessions	General	
Reproducible Research	https://github.com/leipzig/awesome-reproducible-research	A curated list of reproducible research case studies, projects, tutorials, and media	General	10.5281/zenodo.3564746
KnowledgeSpace	https://knowledge-space.org/	Community encyclopedia linking brain research concepts to data, models and literature	General	
Awesome Neuroscience	https://github.com/analyticalmonk/awesome-neuroscience	Curated list of awesome neuroscience libraries, software and any content related to the domain	General	
R.I.O.T. Science Club	https://riotscience.co.uk/about-us/	Scientific community providing training in Reproducible, Interpretable, Open, and Transparent Science	General	

6.6. Towards inclusive, diverse and community driven research

OHBM: Code of Conduct	https://www.humanbrainmapping.org/4a/pages/index.c	The Code of Conduct of the OHBM	General	
The Turing Way: Code of Conduct	https://the-turing-way.netlify.app/community-handbook/	The Code of Conduct of the Turing Way	General	
BIDS: Code of Conduct	https://github.com/bids-standard/bids-specification/blob	The Code of Conduct of the BIDS	General	
CARE Principles for Indigenous Data Governance	https://www.gida-global.org/care	Global Indigenous Data Alliance (GIDA) FAIR and CARE principles	General	
Black in Neuro	https://www.blackinneuro.com/	A community built to diversify the neuroscience fields	General	
Women in Neuroscience repository	https://www.winrepo.org/	A repository of female neuroscientists to enhance invitations for talks and collaborations	General	

Other resources

INCF	https://www.incf.org/	A standards organization for open and FAIR neuroscience	General	
OHBM	https://www.humanbrainmapping.org	International society dedicated to using neuroimaging to discover the organization of the human brain	General	
NIH Brain Initiative	https://braininitiative.nih.gov/brain-programs/informatics	NIH large scale initiative for tools to support FAIR principles and reproducibility	General	
NSF CRCNS	https://beta.nsf.gov/funding/opportunities/collaborative-	NSF program that funds open science projects and supports transatlantic cooperations	General	
Human Brain Project	https://www.humanbrainproject.eu/en/	European initiative to investigate the functional organization of brains	General	
Chinese Open Science Network (COSN)	https://open-sci.cn/	Grass-root network for open science and reproducibility in the Chinese-speaking community	General	
ReproNim	https://www.repronim.org/	Reproducible analyses framework (data, software, standardized description of results and workflows)	MRI	
Framework for Open Reprod Research Training (FORRT)	https://forrt.org/	Framework for Open and Reproducible Research Training	General	
The Declaration on Research Assessment (DORA)	https://sfiora.org/	Initiative to improve the ways in which researchers and the outputs of scholarly research are evaluated	General	