**Instructions for uploading contrasts to NeuroVault**

**Why Neurovault?**

* Sharing data without sending files around
* Visualizes your MRI contrasts and gives the dataset a persistent identifier
* Makes meta-analyses a lot easier (a good [open] science practice!)
* Helps you provide transparency to reviewers asking about your data
* Allows referring to the original paper

**Tips**

* **Before uploading:** Keep a good documentation of your contrasts during your data analysis so that it is easier to look up which contrast is which (since SPM is not good at file naming)
* Upload the images before you send in the first version of your paper. This way you can show the reviewers the data from the start (with the neurovault link)
* You can upload both t-maps and ROIs from many different modalities (see below)
* Include all analyses published in the paper and the main effects even if they are not included in the publication. This makes your analysis more transparent to the reviewers

**Which data can be uploaded into neurovault?**

Map types:

* T-maps
* Z-maps
* F-maps
* Chi-squared maps
* P-maps (given null hypothesis)
* 1-P map (“inverted” probability)
* Univariate beta map
* Multivariable beta map
* ROI/mask
* Parcellation
* Anatomical
* Variance

Modalities:

* fMRI BOLD
* fMRI-CBF
* fMRI-CBV
* Diffusion MRI
* Structural MRI
* PET FDP
* PET [15O]-water
* PET other
* MEG
* EEG
* Other

**Example datasets**

* <https://identifiers.org/neurovault.collection:4774> (Renske van der Cruijsen)
* <https://identifiers.org/neurovault.collection:6070> (Michelle Achterberg)

**Instructions**

1. Log in at <https://neurovault.org/>. If you have never used Neurovault before, create an account (or use your Google account).
2. Create a dataset, click “Get started and upload an image!” or “Add new collection” under the “Collections” tab.
3. Fill in the following information (metadata):

**Essentials**

* 1. Name of the collection: title of your article
  2. DOI of your article (if already present: always!!)
  3. Developmental neuroscience community
  4. Full dataset URL: for example a link to an OSF project, dataverseNL publication package, or Openneuro dataset, if applicable
  5. Contributors: add the last author of your paper. In case you lose access to your account, the contributor can still make adaptations
  6. Accessibility: public, unless you are still in the reviewing process and only want the reviewers to see the data (with a view-only link)
  7. **Subjects:** Mean, min and max age of the sample (for easier meta-analysis)
  8. **Design**: type of design
  9. **Acquisition, registration, preprocessing, first level and second level:**  these details should be included in your paper. You can include them here as well but not necessarily.

1. Click “Add image”
   1. Name: short & as clear as possible which map / contrast you are referring to (otherwise add a description)
   2. Map type (often t-map), modality (often fMRI BOLD) and template image (often MNI)
   3. Cognitive Atlas Paradigm: choose the task that resembles yours the best. This may not always be possible, however this field is mandatory
   4. You can upload .nii, .nii.gz and .hdr/.img files. Make sure to select the correct contrast (i.e., have good data documentation)!
   5. Cognitive paradigm description: if you have a task that is not well-known or widely used, e.g., the SNAT, you can refer to a document about the task in this field.
   6. Analysis level: often group (if single-subject, upload each contrast for each subject)
   7. No. of subjects
   8. Corresponding figure: not necessary but very insightful for reviewers ☺