These probabilistic masks of the Bed Nucleus of the Stria Terminalis (BNST) are offered for fMRI-based analyses. Individual subject BNST masks were manually created by three raters from 7 Tesla, 0.7mm isotropic, T1 structural scans of 36 healthy adults. These datasets were nonlinearly warped using AFNI's *3dQwarp* to the ICBM 2009b Nonlinear Asymmetric template (also called “MNI 152 nonlinear template”): <http://www.bic.mni.mcgill.ca/ServicesAtlases/ICBM152NLin2009> . We therefore recommend the use of these BNST masks with this template for group studies. It is highly recommended to visually check your alignment; see figure and citation below for details of anatomical boundaries.

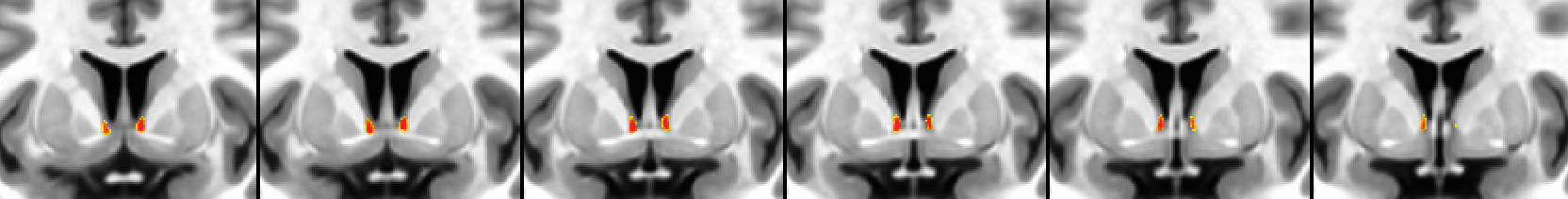


Figure 1: 50% probability map overlaid on high resolution MNI asymmetrical template. Coronal slices from anterior to posterior.

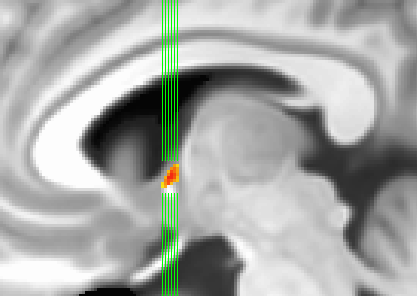


Figure 2: Same threshold, sagittal slice shows location of coronals slices above.

Download all masks from the following link: **bnstMasks.tgz**

Included in this distribution is:

*probbnsts36.nii.gz*: unthresholded mask (probabilistic maps stored as floats)

*bnsts36\_50.nii.gz*: Thresholded mask at 50%, stored as bytes.

If one wishes to add these to the *whereami* program in AFNI for automated identification, modify your .afnirc file like this:

AFNI\_SUPP\_ATLAS\_DIR = ..../bnsts\_v1.0

Change the path for the supplemental atlas directory listed above to the path where the directory and the maps actually are installed on your system.

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