

VentralcROIAtlas BrainVoyager Documentation

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This package contains the cytoarchitectonic atlas of the human ventral visual stream, composed of 8 cytoarchitectonic regions. The atlas is available in FreeSurfer, as well as BrainVoyager file format. You downloaded the BrainVoyager version.

BRAINVOYAGER FILES:

In order to evaluate data in BrainVoyager with this cytoarchitectonic atlas, each dataset has to be aligned to the fsaverage brain. The files required for CBA to the fsaverage brain, as well as the fsaverage surface are provided with the atlas. The atlas is created on the the surfaces with reduced vertices (SPH). IMPORTANT: Chose target alignment for the CBA process, NOT the default dynamic group average (see details below).

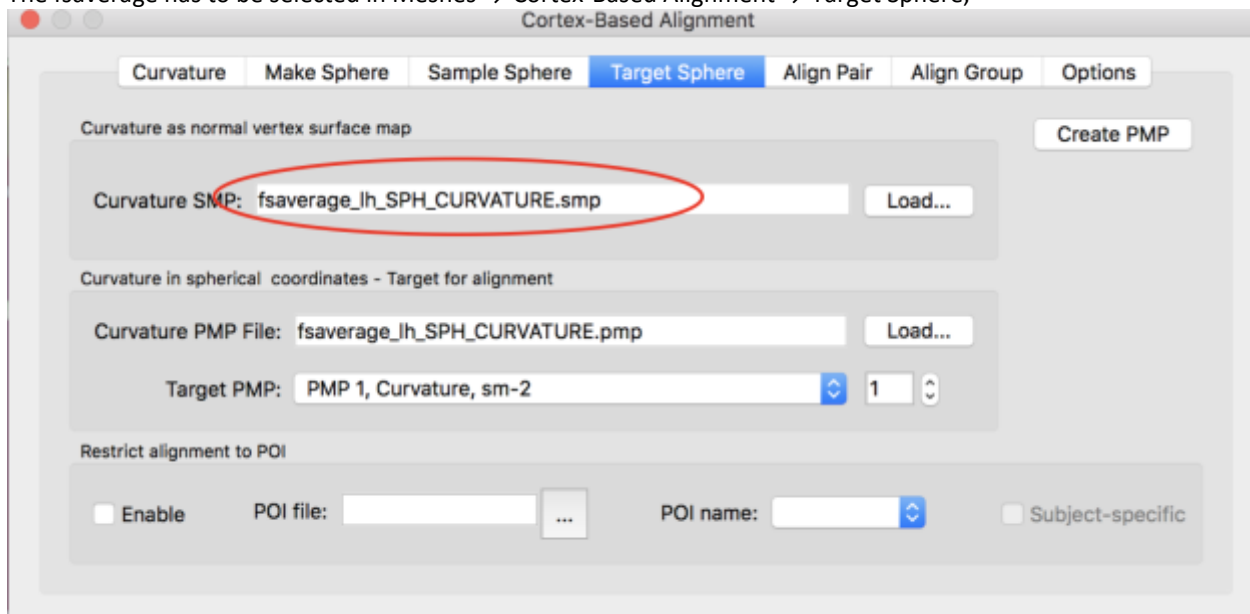
- (i) MNI305.vmr : MNI305 group average volume
 - (ii) fsaverage_hemisphere_SPH_CURVATURE.smp : Curvature SMP for target sphere PMP creation
 - (iii) fsaverage_hemisphere_SPH.srf : Fsaverage with standardized number of vertices
 - (iv) hemisphere_vcAtlas.poi : Each maximum cROI of the atlas is saved as individual ROI
- In addition: fsaverage_hemisphere.srf : Fsaverage surface with full number of vertices

ANALYSIS:

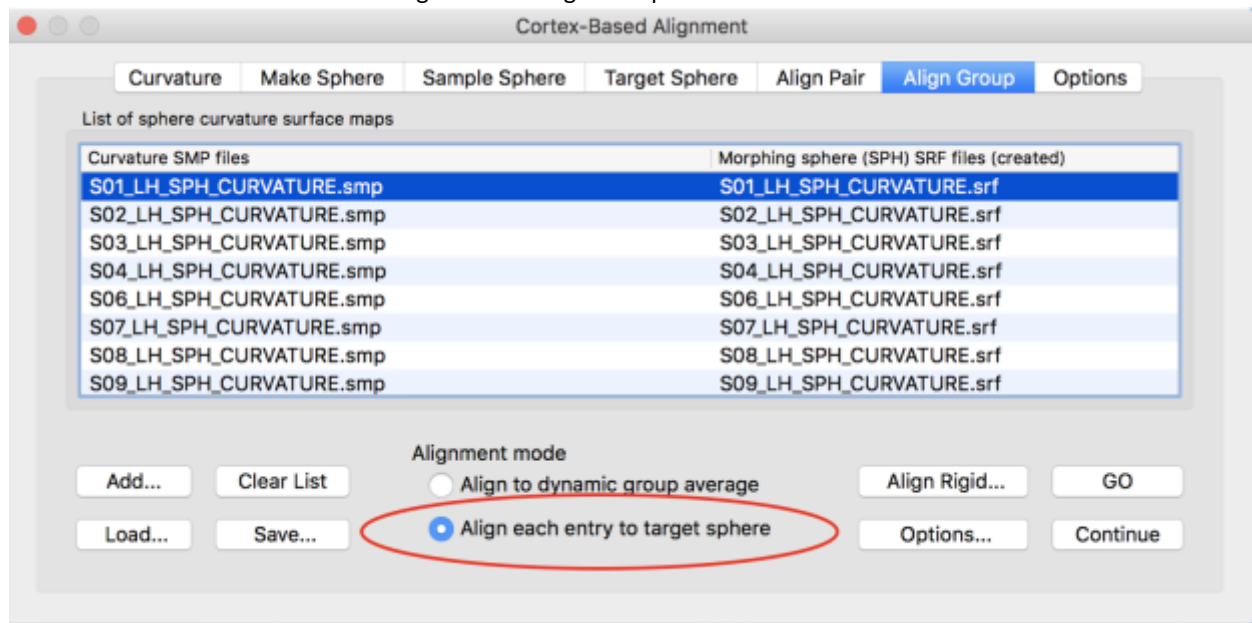
Consult the BrainVoyager support website for details on how to run CBA
(<http://support.brainvoyager.com/surface-space/42-cortex-based-alignment.html>).

By default, BrainVoyager creates a dynamic group average for cortex-based alignment. However, the cytoarchitectonic atlas was created on the fsaverage brain. Therefore you need to change the default settings to target alignment and choose the fsaverage as target.

The fsaverage has to be selected in Meshes → Cortex-Based Alignment → Target Sphere,



as well as Meshes → Cortex-Based Alignment → Align Group.



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