

3d Brain Atlas Reconstructor on-line service

*Supported by an infrastructural grant
from the Polish Ministry of Regional Development
POIG.02.03.00-00-003/09*

Available services

getCafInfo

Returns the index file of selected CAF dataset. Index file contains the list of structures available for reconstruction, their hierarchy and the list of slides within the given dataset.

Examples

- http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51
- http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51;listSlides=False;listStructures=False

getReconstruction

Returns a model of a given structure from selected dataset as a zip file containing the reconstruction and a short description.

Examples

- http://service.3dbar.org/getReconstruction?cafDatasetName=whs_0.51;structureName=thalamus
- http://service.3dbar.org/getReconstruction?cafDatasetName=whs_0.51;structureName=thalamus;qualityPreset=high

getPreview

Displays a window allowing to manipulate (rotate, zoom, etc.) lightweight version of the reconstruction. Note that the web browser has to support WebGL in order to use this feature.

Examples

- http://service.3dbar.org/getPreview?cafDatasetName=whs_0.51&structureName=CNS
- http://service.3dbar.org/getPreview?cafDatasetName=whs_0.5&structureName=Hc
- http://service.3dbar.org/getPreview?cafDatasetName=sba_DB08&structureName=FBr

getThumbnail

Returns a thumbnail of the reconstruction of a given structure available via `getReconstruction` in png format.

Examples

- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=corpus-callosum
- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=thalamus

- http://service.3dbar.org/getThumbnail?cafDatasetName=whs_0.51;structureName=CNS
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_DB08;structureName=FL
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_DB08;structureName=LV
- http://service.3dbar.org/getThumbnail?cafDatasetName=sba_PHT00;structureName=Brain

getCafSlide

Returns an SVG image with CAF slide filtered by provided settings.

Examples

- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460
- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460;showMask=True;showLabels=False
- http://service.3dbar.org/getCafSlide?cafDatasetName=whs_0.51;slideNumber=460;showLabels=False
- http://service.3dbar.org/getCafSlide?cafDatasetName=sba_DB08;slideNumber=84;structureList=Cx
- http://service.3dbar.org/getCafSlide?cafDatasetName=sba_DB08;slideNumber=84;structureList=Cx.Th

Available datasets

The Waxholm Space mouse atlas, 2010 delineation (whs_0.51)

http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.51

The Waxholm Space mouse atlas, 2009 delineation (whs_0.5)

http://service.3dbar.org/getCafInfo?cafDatasetName=whs_0.5

NeuroMaps Macaque Atlas from SBA template (sba_DB08)

http://service.3dbar.org/getCafInfo?cafDatasetName=sba_DB08

Rhesus Monkey, Paxinos et al. 2000 from SBA template (sba_PHT00)

http://service.3dbar.org/getCafInfo?cafDatasetName=sba_PHT00

SBA template of Waxholm Space mouse atlas (sba_WHS09)

http://service.3dbar.org/getCafInfo?cafDatasetName=sba_WHS09

SBA template of Waxholm Space mouse atlas (sba_WHS10)

http://service.3dbar.org/getCafInfo?cafDatasetName=sba_WHS10