3dBAR reconstruction examples

Under construction - more examples soon.

- 1. Based on Paxinos and Watson The Rat Brain in Stereotaxic Coordinates
- 2. Based on ScalableBrainAtlas templates
- 3. Based on Waxholm Space Atlas

Based on Paxinos and Watson *The Rat Brain in Stereotaxic Coordinates*

Examples of reconstructions based on Paxinos and Watson *The Rat Brain in Stereotaxic Coordinates* created with 3D Brain Atlas Reconstructor. Meshes are presented without any additional processing such as smoothing or complexity reduction in order to fully represent source data.

Segmented reconstruction of the cortex

(both archi and neocortex):

M1,M2 primary and secondary motor cortex

RSD - retrosplenial dysgranular cortex

Reconstruction of the whole brain V1 - primary visual cortex

OlfCx - olfactory cortex

S2 - secondary somatosensory cortex S1ULp - primary somatosensory cortex,

upper lip region.

Segmented reconstruction of thalamus:

LD - laterodorsal thalamic nucleus,

PO - posterior thalamic nuclear group,

LP - lateral posterior thalamic nucleus,

DLG - dorsal lateral geniculate nucleus,

MG - medial geniculate nucleus,

Rt - reticular thalamic nucleus,

PVA - paraventricular thalamic nucleus.

Segmented reconstruction

of pyramidal tract:

Pyramidal tract

Thalamus

ic - internal capsule,

lfp - longitudinal fasciculus of the pons,

cp - cerebral penducles,

py - pyramids.

Based on <u>ScalableBrainAtlas</u> templates

Rhesus Monkey, Paxinos et al. 2000 NeuroMaps Macaque Atlas

Reconstructions of cerebral cortex and chosen subcortical structures:

6, 47 - areas 6 and 47 of cortex,
PE - parietal area PE,
Amg - amygdala,
Str - striatum,

V1,V4 - visual area 1 and 4.

STreg - superior temporal sulcus

CgG - cingulate gyrus,

FL,OL,PL - frontal, occipital and

parietal lobe,

Olf - olfactory bulb.

Based on Waxholm Space Atlas

Segmented reconstructions

of chosen brain structures:

Reconstruction of whole brain SC - superior colliculus,

VS - ventricular system,

cb - cerebellum.