3dBAR reconstruction examples

Under construction - more examples soon.

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 cortex:

(both archi and neocortex):

M1,M2 primary and secondary motor cortex

RSD - retrosplenial dysgranular cortex

Reconstruction of whole brain V1 - primary visual cortex

Thalamus

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:

ic - internal capsule,

Pyramidal tract 1fp - longitudinal fasciculus of the pons,

cp - celebral penducles,

py - pyramids.

Based on <u>ScalableBrainAtlas</u> templates

Segmented reconstruction of cortex: Reconstructions of cerebral cortex 6, 47 - area 6 and 47 of cortex, and chosen subcortical structures:

PE - parietal area PE, Amg - amygdala, STreg - superior temporal sulcus Str - striatum,

V1,V4 - visual area 1 and 4. 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.