

3dBAR reconstruction examples

Under construction - more examples soon.

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.

Reconstruction of whole brain Segmented reconstruction cortex:
(both archi and neocortex):
M1,M2 primary and secondary motor cortex
RSD - retrosplenial dysgranular cortex
V1 - primary visual cortex
OlfCx - olfactory cortex
S2 - secondary somatosensory cortex
S1ULp - primary somatosensory cortex,
upper lip region.

Thalamus 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.

Pyramidal tract Segmented reconstruction of pyramidal tract:
ic - internal capsule,
lfp - longitudinal fasciculus of the pons,
cp - cerebral peduncles,
py - pyramids.

Segmented reconstruction of cortex: Segmented reconstruction of cerebral cortex
and chosen subcortical structures:
6, 47 - area 6 and 47 of cortex, Amg - amygdala,
PE - parietal area PE, Str - striatum,
STreg - superior temporal sulcus CgG - cingulate gyrus,
V1, V4 - visual area 1 and 4. FL, OL, PL - frontal, occipital and parietal lobe,
Olf - olfactory bulb.

Reconstruction of whole brain Segmented reconstruction of chosen brain structures:
SC - superior colliculus,

VS - ventricular system,
cb - cerebellum.