

# 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