**Numbers2regions for the Hammers\_mith atlas n30r83**

The region list on the next page translates the (essentially arbitrary) voxel value coding for the regions into anatomical names.

The exact region definitions and protocols used for manually delineating the 30x83 regions can be found in the following papers:

(for regions 1-49):

**Hammers A**, Allom R, Koepp MJ, Free SL, Myers R, Lemieux L, Mitchell TN, Brooks DJ, Duncan JS. Three-dimensional maximum probability atlas of the human brain, with particular reference to the temporal lobe. *Hum Brain Mapp* 2003, 19: 224-247.

(for regions 50-83):

Gousias IS, Rueckert D, Heckemann RA, Dyet LE, Boardman JP, Edwards AD, **Hammers A**. Automatic segmentation of brain MRIs of 2-year-olds into 83 regions of interest. *Neuroimage* 2008 Apr 1;40(2):672-684

and on the associated web page, www.brain-development.org.

IMPORTANT HINT:

Odd numbers always indicate a region on the right side of the brain; even numbers one on the left. This can help when using n30r83 with new software, to check R/L orientation is correct after spatial manipulations.

Alexander Hammers, Lyon, 15 December 2011.

**Number in Atlas Name of Structure**

***Temporal Lobe***

1; 2 Hippocampus

3; 4 Amygdala

5; 6 Anterior temporal lobe, medial part 7; 8 Anterior temporal lobe, lateral part 9; 10 Parahippocampal and ambient gyri

11; 12 Superior temporal gyrus, posterior part 13; 14 Middle and inferior temporal gyrus 15; 16 Fusiform gyrus

30; 31 Posterior temporal lobe 82; 83 Superior temporal gyrus, anterior part

***Posterior Fossa***

17; 18 Cerebellum

19 Brainstem

***Insula and Cingulate gyri***

20; 21 Insula

24; 25 Cingulate gyrus (gyrus cinguli), anterior part 26; 27 Cingulate gyurs (gyrus cinguli), posterior part ***Frontal Lobe***

28; 29 Middle frontal gyrus 50; 51 Precentral gyrus

52; 53 Straight gyrus

54; 55 Anterior orbital gyrus 56; 57 Inferior frontal gyrus 58; 59 Superior frontal gyrus

68; 69 Medial orbital gyrus 70; 71 Lateral orbital gyrus 72; 73 Posterior orbital gyrus 76; 77 Subgenual frontal cortex 78; 79 Subcallosal area

80; 81 Pre-subgenual frontal cortex ***Occipital Lobe***

64; 65 Lingual gyrus

66; 67 Cuneus

22; 23 Lateral remainder of occipital lobe ***Parietal Lobe***

60; 61 Postcentral gyrus

62; 63 Superior parietal gyrus 32; 33 Inferiolateral remainder of parietal lobe ***Central Structures***

34; 35 Caudate nucleus

36; 37 Nucleus accumbens 38; 39 Putamen

40; 41 Thalamus

42; 43 Pallidum

44 Corpus callosum

74; 75 Substantia nigra

***Ventricles***

45; 46 Lateral ventricle (excluding temporal horn) 47; 48 Lateral ventricle, temporal horn 49 Third ventricle