**Supplementary Tables**

**Table 1 ­– Modular assignment**

|  |  |
| --- | --- |
| SylPN | SPN |
| Module 1 |
| *Frontal* |
|  | L Inferior frontal gyrus |
| L Superior frontal gyrus | L Superior frontal gyrus |
| L / R Medial frontal gyrus | R Middle frontal gyrus |
| L / R Middle cingulate cortex |  |
| L / R Posterior cingulate cortex |  |
| L Middle orbital gyrus |  |
| L / R premotor cortex (Area 6) |  |
| L / R primary motor cortex (Area 4a) | R Area 4p |
| *Insula* |
| L Area Id1 | R Area Id1 |
|  | R Area Ig1 |
|  | R Area Ig2 |
|  | R Insular lobe |
| *Parietal* |  |
| L IPC (area PFcm) | R IPC (area PFcm) |
|  | R IPC (area PF) |
| L IPC (area PFm) | R IPC (area PFm) |
| L / R IPC (area PFop) |  |
| L / R IPC (area PGa) |  |
| L IPC (area PGp) | R IPC (area PGp) |
| L / R SPC (Area 5Ci) |  |
|  | R Area 1 |
|  | R Area 2 |
|  | R Area 3a |
|  | R Area 3b |
| L / R Area 5L |  |
| L Area 5M | R Area 5M |
| L / R Area 7A |  |
|  | R Area 7M |
|  | R Area 7P |
|  | R Area 7PC |
| L / R Precuneus |  |
|  | R auditory cortex (area hIP3) |
|  | R Operculum (area OP 1) |
|  | R Operculum 2 |
|  | R Operculum 4 |
| *Temporal* |  |
|  | R TE 1.0 |
|  | R TE 1.2 |
|  | R TE 3.0 |
|  | R Temporal pole |
|  | R Middle temporal pole |
|  | R Middle temporal gyrus |
|  | R Fusiform gyrus |
| *Occipital* |  |
| L / R Area 18 |  |
| L / R Area hOC3v |  |
| L / R Area hOC4v |  |
| L / R Area hOC5v |  |
| L / R Middle occipital gyrus |  |
| L / R Inferior occipital gyrus |  |
| R Superior occipital gyrus | L Superior occipital gyrus |
| L / R Cuneus |  |
| L / R Nucleus accumbens |  |
| R Lingual gyrus | L / R Lingual gyrus |
| *Subcortical* |  |
| R Caudate nucleus |  |
|  | L Thalamus (premotor area) |
|  | R Thalamus (motor area) |
|  | L / R Thalamus (temporal area) |
|  | L / R Amygdala (area Lb) |
|  | R Amygdala (area CM) |
|  | L / R Amygdala (area SF) |
|  | R Hippocampus (area CA) |
|  | R Hippocampus (area EC) |
|  | L Hippocampus (area FD) |
|  | R Hippocampal gyrus |
|  | R Hippocampus (area HATA) |
|  | L / R Hippocampus (area SUB) |
|  | R Medial globus pallidus |
| *Cerebellum* |  |
| L Lobule I/IV | R Lobule I/IV |
| L / R Lobule V | R Lobule V |
|  | R Lobule VIv |
|  | R Lobule VIIa/C |
|  | R Lobule VIIb |
|  | R Lobule VIIbv |
| L Lobule VIIIav | R Lobule VIIIav |
|  | R Lobule VIIIa |
|  | R Lobule VIIIbv |
|  | R Lobule VIIIb |
|  | R Lobule X |
| L / R Lobule Xv |  |
| Module 2 |
| *Frontal* |
| L Inferior frontal gyrus |  |
| R Medial frontal gyrus | L / R Medial frontal gyrus |
|  | L Middle frontal gyrus |
|  | L / R Middle orbital gyrus |
| R Inferior frontal gyrus (Area 45) |  |
|  | L / R Area 4a |
| R Area 4p |  |
|  | L / R Area 6 |
|  | L / R Anterior cingulate cortex |
|  | L / R Middle cingulate cortex |
|  | L Posterior cingulate cortex |
|  | L / R Precuneus |
| *Insula* |
| R Area Id1 | L Area Id1 |
| R Area Ig1 | L Area Ig1 |
| R Area Ig2 |  |
| R Insular lobe |  |
| *Parietal* |  |
| L IPC (area PFt) |  |
| R IPC (area PF) |  |
| R IPC (area PFcm) | L IPC (area PFcm) |
| R IPC (area PFm) | L IPC (area PFm) |
|  | L / R IPC (area PFop) |
|  | L / R IPC (area PGa) |
| R IPC (area PGp) | L IPC (area PGp) |
| R hIP1 |  |
| R hIP3 |  |
| R Area 1 |  |
| R Area 2 |  |
| R Area 3a |  |
| R Area 3b |  |
|  | L / R Area 5Ci |
|  | L / R Area 5L |
| R Area 5M | L Area 5M |
|  | L / R Area 7A |
| R Area 7M | L Area 7M |
| R Area 7P |  |
| R Area 7PC |  |
| R Operculum 1 |  |
| R Operculum 4 |  |
| *Temporal* |  |
| R TE 1.0 |  |
| R TE 1.2 |  |
| R TE 3.0 |  |
| R Temporal pole |  |
| R Medial temporal gyrus |  |
| R Inferior temporal gyrus |  |
| R Fusiform gyrus |  |
| *Occipital* |  |
|  | L Nucleus accumbens |
|  | L / R Inferior occipital gyrus  |
|  | L / R Middle occipital gyrus  |
| L Superior occipital gyrus | R Superior occipital gyrus |
| R Area 17 |  |
|  | L / R Area 18 |
|  | L / R hOC3v |
|  | L / R hOC4v |
|  | L / R hOC5v |
|  | L / R Cuneus |
|  |  |
| *Subcortical* |  |
|  | L / R Caudate nucleus |
| L / R Thalamus (prefrontal area) |  |
| L Thalamus (premotor area) |  |
| R Thalamus (motor area) |  |
| L Thalamus (temporal area) |  |
| L Thalamus (somatosensory area) |  |
| R Thalamus (parietal area) | L Thalamus (parietal area) |
| R Amygdala (area CM) |  |
| L Amygdala (area Lb) |  |
| L / R Amygdala (area SF) |  |
| R Hippocampus (area CA) |  |
| L Hippocampus (area FD) |  |
| L / R Hippocampus (area HATA) |  |
| L / R Hippocampus (area SUB) |  |
| L / R Hippocampal gyrus |  |
|  | R Substantia nigra |
| *Cerebellum* |  |
| R Lobule I/IV | L Lobule I/IV |
|  | L Lobule V |
| R Lobule VIv |  |
| R Lobule VIIa/Cr1 |  |
| R Lobule VIIa/Cr2v |  |
| R Lobule VIIb | L Lobule VIIb |
| R Lobule VIIbv |  |
| R Lobule VIIIav | L Lobule VIIIav |
| R Lobule VIIIa |  |
| R Lobule VIIIbv |  |
| R Lobule VIIIb |  |
| R Lobule IX |  |
| R Lobule X | L Lobule X |
|  | L Lobule Xv |
| Module 3 |
| *Frontal* |
| R Inferior frontal gyrus | R Inferior frontal gyrus |
| R Superior frontal gyrus | R Superior frontal gyrus |
| L / R Area 44 | L / R Area 44 |
| L Area 45 | L / R Area 45 |
| L Area 4p | L Area 4p |
| *Insula* |  |
| L Area Ig1 |  |
|  | L Area Ig2 |
| L Insular lobe | L Insular lobe |
| *Parietal* |  |
| L / R IPC (area PFt) | L / R IPC (area PFt) |
| L hIP1 | L / R hIP1 |
| L / R hIP2 |  |
| L hIP3 | L hIP3 |
| L Area 1 | L Area 1 |
| L Area 2 | L Area 2 |
| L Area 3a | L Area 3a |
| L Area 3b | L Area 3b |
| L Area 7M |  |
| L Area 7P | L Area 7P |
| L Area 7PC | L Area 7PC |
| L Operculum 1 | L Operculum 1 |
| R Operculum 2 | L Operculum 2 |
| L Operculum 3 | L / R Operculum 3 |
| L Operculum 4 | L Operculum 4 |
| *Temporal* |  |
| L TE1.0 | L TE1.0 |
| L / R TE1.1 | L / R TE1.1 |
| L TE1.2 | L TE1.2 |
| L TE3.0 | L TE3.0 |
| L Temporal pole | L Temporal pole |
| L Inferior temporal gyrus | L Inferior temporal gyrus |
| L Middle temporal gyrus | L Middle temporal gyrus |
| L Fusiform gyrus |  |
| *Occipital* |  |
| L Lingual gyrus |  |
| L Area 17 | L / R Area 17 |
| *Subcortical* |  |
|  | L Medial globus pallidus |
| L / R Putamen | L / R Putamen |
| L / R Substantia nigra | L Substantia nigra |
| L / R Red nucleus | L Red nucleus |
| R Subthalamic nucleus | L / R Subthalamic nucleus |
|  | L / R Thalamus (prefrontal area) |
| R Thalamus (premotor area) |  |
| L Thalamus (motor area) |  |
| R Thalamus (temporal area) |  |
| R Thalamus (somatosensory area) | R Thalamus (somatosensory area) |
| L / R Thalamus (visual area) | L Thalamus (visual area) |
| L Hippocampus (area CA) |  |
|  | L Hippocampus (area EC) |
| R Hippocampus (area FD) | R Hippocampus (area FD) |
|  | L Hippocampus (area HATA) |
|  | L Hippocampal gyrus |
| *Cerebellum* |  |
| L / R Lobule VI |  |
| L Lobule VIv | L Lobule VIv |
| L Lobule VIIa/Cr1 | L Lobule VIIa/Cr1 |
| L Lobule VIIa/Cr2 |  |
| L Lobule VIIa/Cr2v | L Lobule VIIa/Cr2v |
| L Lobule VIIb |  |
| L Lobule VIIbv | L Lobule VIIbv |
| L Lobule VIIIa | L Lobule VIIIa |
| L Lobule VIIIb | L Lobule VIIIb |
| L Lobule VIIIbv | L Lobule VIIIbv |
| L Lobule IX | L Lobule IX |
| L / R Lobule IXv | L / R Lobule IXv |
| L Lobule X |  |
| Module 4 |
| *Parietal* |  |
|  | L / R hIP2 |
| *Subcortical* |  |
|  | L / R Lateral globus pallidus |
|  | R Red nucleus |
|  | R Amygdala (area CM) |
| *Cerebellum* |  |
|  | L / R Lobule VI |
|  |  |

Abbreviations: L - left; R - right; IPC - Inferior parietal cortex.

**Table 2 ­– Modular assignment of inhibitory network**

|  |  |
| --- | --- |
| SylPN | SPN |
| Module 1 |
| *Frontal* |
| L Inferior frontal gyrus | L Inferior frontal gyrus |
|  | L / R Area 44 |
| *Insula* |  |
| R Insular lobe |  |
| *Parietal* |  |
| R Area 1 |  |
| R Area 3b |  |
| *Temporal* |  |
| R TE1.0 |  |
| R TE1.1 |  |
| R Inferior temporal gyrus |  |
| *Occipital* |  |
| R Nucleus accumbens |  |
| *Subcortical* |  |
| L Putamen |  |
| R Substantia nigra |  |
|  | L Thalamus (temporal area) |
| Module 2 |
| *Frontal* |  |
| L Area 6 | L / R Area 6 |
| L / R Middle cingulate cortex | R Middle cingulate cortex |
| R Medial frontal gyrus |  |
|  | R Middle orbital gyrus |
| *Parietal* |  |
|  | R Area 7A |
| *Cerebellum* |  |
|  | L Lobule X |
| Module 3 |
| *Frontal* |  |
| L Middle orbital gyrus | L Middle orbital gyrus |
| *Parietal* |  |
|  | R IPC (area PGp) |
| *Occipital* |  |
| L Nucleus accumbens |  |
| R hOC4v |  |
| *Subcortical* |  |
| R Caudate nucleus | R Caudate nucleus |
| Module 4 |
| *Frontal* |  |
|  | R Area 45 |
| *Parietal* |  |
|  | R Area 1 |
|  | R Operculum 1 |
|  | R IPC (area PFt) |
| *Subcortical* |  |
|  |  |
|  | R Hippocampus (area CA) |
|  | R Hippocampus (area EC) |
|  | R Hippocampus (area FD) |
|  | R Hippocampal gyrus |

Abbreviations: L - left; R - right; IPC - Inferior parietal cortex.

**Table 3 ­– Modular assignment of excitatory network**

|  |  |
| --- | --- |
| SylPN | SPN |
| Module 1 |
| *Frontal* |  |
| L Medial frontal gyrus |  |
|  | R Middle frontal gyrus |
| L Superior frontal gyrus | L Superior frontal gyrus |
| L / R Area 4a |  |
|  | R Area 4p |
| R Area 6 |  |
| L / R Posterior cingulate cortex |  |
| *Insula* |  |
| L Area Id1 | R Area Id1 |
|  | R Area Ig1 |
|  | R Area Ig2 |
|  | R Insular lobe |
| *Parietal* |  |
| L IPC (area PFcm) | R IPC (area PFcm) |
| L IPC (area PFm) | R IPC (area PFm) |
|  | L IPC (area PFt) |
| L / R IPC (area PFop) |  |
| L / R IPC (area PGa) |  |
| L IPC (area PGp) |  |
|  | R Area 2 |
|  | R Area 3a |
|  | R Area 3b |
| L / R Area 5Ci |  |
| L / R Area 5L |  |
| L Area 5M | R Area 5M |
| L / R Area 7A |  |
|  | R Area 7M |
|  | R Area 7P |
|  | R Area 7PC |
| L / R Precuneus |  |
|  | R Operculum 2 |
|  | R Operculum 4 |
| *Temporal* |  |
|  | R TE1.0 |
|  | R TE1.2 |
|  | R TE3.0 |
|  | R Temporal pole |
|  | R Middle temporal pole |
|  | R Middle temporal gyrus |
|  | R Fusiform gyrus |
| *Occipital* |  |
|  | R Area 17 |
| L / R Area 18 |  |
| L / R hOC3v |  |
| L hOC4v |  |
| L / R hOC5v |  |
| L / R Inferior occipital gyrus |  |
| L / R Middle occipital gyrus |  |
| R Superior occipital gyrus | L Superior occipital gyrus |
| L / R Cuneus |  |
|  | L / R Lingual gyrus |
| *Subcortical* |  |
|  | L Thalamus (premotor area) |
|  | R Thalamus (motor area) |
|  | R Thalamus (temporal area) |
|  | L / R Amygdala (area LB) |
|  | L / R Amygdala (area SF) |
|  | L Hippocampus (area FD) |
|  | R Hippocampus (area HATA) |
|  | L / R Hippocampus (Area SUB) |
|  | R Medial globus pallidus |
| *Cerebellum* |  |
| L Lobule I/IV | R Lobule I/IV |
| L / R Lobule V | R Lobule V |
|  | R Lobule VIv |
|  | R Lobule VIIa/Cr2v |
|  | R Lobule VIIb |
|  | R Lobule VIIbv |
|  | R Lobule VIIIa |
| L Lobule VIIIav | R Lobule VIIIav |
|  | R Lobule VIIIb |
|  | R Lobule VIIIbv |
| L / R Lobule Xv |  |
| Module 2 |
| *Frontal* |  |
| R Inferior frontal gyrus |  |
|  | L Middle frontal gyrus |
|  | L / R Medial frontal gyrus |
| R Superior frontal gyrus |  |
| L / R Area 44 |  |
| L Area 45 |  |
|  | L / R Area 4a |
| L Area 4p |  |
|  | L / R Anterior cingulate cortex |
|  | L Middle cingulate cortex |
|  | L Posterior cingulate cortex |
|  | L Nucleus accumbens |
| *Insula* |  |
|  | L Area Id1 |
| L Area Ig1 | L Area Ig1 |
| L Insular lobe |  |
| *Parietal* |  |
| L IPC (area PF) |  |
|  | L IPC (area PFcm) |
|  | L IPC (area PFm) |
|  | L / R IPC (area PFop) |
| R IPC (area PFt) |  |
|  | L / R IPC (area PGa) |
|  | L IPC (area PGp) |
| L / R hIP1 |  |
| L / R hIP2 |  |
| L hIP3 |  |
| L Area 1 |  |
| L Area 2 |  |
| L Area 3a |  |
| L Area 3b |  |
|  | L / R Area 5Ci |
|  | L / R Area 5L |
|  | L Area 7A |
| L Area 7M | L Area 7M |
| L Area 7P |  |
| L Area 7PC |  |
| L Operculum 1 |  |
| L Operculum 3 |  |
| L Operculum 4 |  |
|  | L / R Precuneus |
| *Temporal* |  |
| L TE1.0 |  |
| L TE1.1 |  |
| L TE1.2 |  |
| L TE3.0 |  |
| L Temporal pole |  |
| L Inferior temporal gyrus |  |
| L Middle temporal gyrus |  |
| L Fusiform gyrus |  |
| *Occipital* |  |
| L Lingual gyrus |  |
| L Area 17 |  |
|  | L / R Area 18 |
|  | L / R hOC3v |
|  | L / R hOC4v |
|  | L / R hOC5v |
|  | L / R Inferior occipital gyrus |
|  | L / R Middle occipital gyrus |
|  | R Superior occipital gyrus |
|  | L / R Cuneus |
| *Subcortical* |  |
| L Substantia nigra | R Substantia nigra |
| L / R Red nucleus |  |
| R Putamen |  |
| R Thalamus (premotor area) |  |
| L Thalamus (motor area) |  |
| R Thalamus (somatosensory area) |  |
|  | L Thalamus (parietal area) |
| R Thalamus (temporal area) |  |
| L / R Thalamus (visual area) |  |
| L Hippocampus (area CA) |  |
| R Hippocampus (area FD) |  |
| R Subthalamic nucleus |  |
|  | L Caudate nucleus |
| *Cerebellum* |  |
|  | L Lobule I/IV |
|  | L Lobule V |
| L / R Lobule VI |  |
| L Lobule VIv |  |
| L Lobule VIIa/Cr1 |  |
| L Lobule VIIa/Cr2 |  |
| L Lobule VIIa/Cr2v |  |
| L Lobule VIIb | L Lobule VIIb |
| L Lobule VIIbv |  |
| L Lobule VIIIa |  |
|  | L Lobule VIIIav |
| L Lobule VIIIb |  |
| L Lobule VIIIbv |  |
| L Lobule IX |  |
| L / R Lobule IXv |  |
| L Lobule X | R Lobule X |
|  | L Lobule Xv |
| Module 3 |
| *Frontal* |
|  | R Inferior frontal gyrus |
| R Middle frontal gyrus |  |
|  | R Superior frontal gyrus |
| R Area 45 | L Area 45 |
| R Area 4p | L Area 4p |
| *Insula* |  |
| R Area Id1 |  |
| R Area Ig1 |  |
| R Area Ig2 | L Area Ig2 |
|  | L Insular lobe |
| *Parietal* |  |
| L IPC (area PFt) | R IPC (area PFt) |
| R IPC (area PF) | L IPC (area PF) |
| R IPC (area PFcm) |  |
| R IPC (area PFm) |  |
| R IPC (area PGp) |  |
|  | L Area 1 |
| R Area 2 | L Area 2 |
| R Area 3a | L Area 3a |
|  | L Area 3b |
| R Area 5M | L Area 5M |
| R Area 7M |  |
| R Area 7P | L Area 7P |
| R Area 7PC | L Area 7PC |
| R Operculum 1 | L Operculum 1 |
| R Operculum 2 | L Operculum 2 |
|  | L / R Operculum 3 |
| R Operculum 4 | L Operculum 4 |
|  | L hIP1 |
| R hIP3 | L hIP3 |
| *Temporal* |  |
|  | L TE1.0 |
|  | L / R TE1.1 |
| R TE1.2 | L TE1.2 |
| R TE3.0 | L TE3.0 |
| R Temporal pole | L Temporal pole |
| R Middle temporal pole |  |
|  | L Inferior temporal gyrus |
|  | L Middle temporal gyrus |
| R Fusiform gyrus |  |
| *Occipital* |  |
| L Superior occipital gyrus |  |
| R Lingual gyrus |  |
| R Area 17 | L Area 17 |
| *Subcortical* |  |
|  | L / R Putamen |
|  | L Medial globus pallidus |
| L / R Thalamus (prefrontal area) | L / R Thalamus (prefrontal area) |
| L Thalamus (premotor area) |  |
| R Thalamus (motor area) |  |
| L Thalamus (somatosensory area) | R Thalamus (somatosensory area) |
| R Thalamus (parietal area) |  |
| L Thalamus (temporal area) |  |
|  | L Thalamus (visual area) |
| R Amygdala (area CM) |  |
| L Amygdala (area LB) |  |
| L / R Amygdala (area SF) |  |
| R Hippocampus (area CA) |  |
|  | L Hippocampus (area EC) |
| L Hippocampus (area FD) |  |
| L / R Hippocampus (area HATA) | L Hippocampus (area HATA) |
| L / R Hippocampus (area SUB) |  |
| L / R Hippocampal gyrus | L Hippocampal gyrus |
|  | L / R Subthalamic nucleus |
|  | L Substantia nigra |
|  | L Red nucleus |
| *Cerebellum* |  |
| R Lobule I/IV |  |
| R Lobule VIv | L Lobule VIv |
| R Lobule VIIa/Cr1 | L Lobule VIIa/Cr1 |
| R Lobule VIIa/Cr2v | L Lobule VIIa/Cr2v |
| R Lobule VIIb |  |
| R Lobule VIIbv | L Lobule VIIbv |
| R Lobule VIIIa | L Lobule VIIIa |
| R Lobule VIIIav |  |
| R Lobule VIIIb | L Lobule VIIIb |
| R Lobule VIIIbv | L Lobule VIIIbv |
| R Lobule IX | L Lobule IX |
|  | L / R Lobule IXv |
| R Lobule X |  |
| Module 4 |
| *Parietal* |  |
|  | L / R hIP2 |
| *Subcortical* |  |
|  | L / R Lateral globus pallidus |
|  | R Red nucleus |
|  | R Amygdala (area CM) |
| *Cerebellum* |  |
|  | L / R Lobule VI |

Abbreviations: L - left; R - right; IPC - Inferior parietal cortex.