t1:1

Table 1

t1:2 Neocortical segmentation in coronal sections using T2\*-weighted images. For each structure the name and abbreviation is listed according to Paxinos and Franklin and the Allen

t1:3 Brain Reference Atlas, a color code for the region, an average volume, and an average signal intensity as a percent of the maximum.

The mouse brain in stereotaxic coordinates The allen reference atlas Region Structure names Abbreviations Abbreviations Structure names

Pallium

OOF PR

UNCORRECTED

Medial pallium

Subicular complex

Average volume (mm3)

Average signal intensity (%)

Presubiculum PrS PRE Presubiculum 0.27 70.04

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Parasubiculum PaS PAR Parasubiculum 1.42 70.07

Dorsal subiculum DS SUBd Subiculum, dorsal part 0.74 68.04

Postsubiculum Post POST Postsubiculum 0.64 69.17

Subiculum transition area STr SUBv Subiculum, ventral part 2.08 67.83

Entorhinal cortex

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Medial entorhinal cortex | MEnt |  | ENTm, ENTmv | Entorhinal area, medialpart, ventral zone | 0.58 | 70.65 |
| Caudomedial entorhinal cortex | CEnt |  | ENTm | Entorhinal area, medial part, dorsal zone | 4.84 | 67.93 |
| Dorsal intermediate entorhinal cortex | DIEnt |  | ENTl | Entorhinal area, lateral part | 1.67 | 69.16 |
| Dorsolateral entorhinal cortex | DLEnt |  | ENTl | Entorhinal area, lateral part | 3.11 | 69.46 |
| Ventral intermediate entorhinal cortex | VIEnt |  | ENTl | Entorhinal area, lateral part | 0.87 | 70.21 |
| Dorsal tenia tecta | DTT |  | TTd | Tenia tecta, dorsal part | 0.84 | 72.69 |
| Ventral tenia tecta | VTT |  | TTv | Tenia tecta, ventral part | 0.15 | 72.55 |

Dorsal pallium

Frontal region

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dorsolateral orbital cortex | DLO |  | AId | Agranular insular area, dorsal part | 0.55 | 68.47 |
| Frontal cortex, area 3 | Fr3 |  | MOp | Primary motor area | 0.65 | 68.59 |
| Frontal association cortex | FrA |  | FRP | Frontal pole, cerebral cortex | 4.54 | 68.46 |
| Lateral orbital cortex | LO |  | ORBl | Orbital area, lateral part | 2.44 | 67.78 |
| Primary motor cortex | M1 |  | MOp | Primary motor area | 6.68 | 68.00 |
| Secondary motor cortex | M2 |  | MOs | Secondary Motor area | 6.52 | 69.09 |
| Medial orbital cortex | MO |  | ORBm | Orbital area, medial part | 1.37 | 70.99 |
| Ventral orbital cortex | VO |  | ORBvl | Orbital area, ventrolateral part | 1.16 | 68.95 |

Parietal region

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| --- | --- | --- | --- | --- | --- | --- | --- |
| Lateral parietal association cortex | LPtA |  |  | PTLp | Posterior parietal association areas | 0.30 | 69.22 |
| Medial parietal association cortex | MPtA |  |  | PTLp | Posterior parietal association areas | 0.46 | 69.50 |
| Parietal cortex, posterior area, rostral part | PtPR |  |  | PTLp | Posterior parietal association areas | 0.12 | 68.86 |
| Somatosensory cortex |  |  |  |  |  |  |  |
| Primary somatosensory cortex | S1 |  |  | SSp | Primary somatosensory area | 3.82 | 68.58 |
| Primary somatosensory cortex, barrel field | S1BF |  |  | SSp-bfd | Primary somatosensory cortex, barrel field | 9.11 | 68.41 |
| Primary somatosensory cortex, dysgranular zone | S1DZ |  |  | SSp-tr | Primary somatosensory area, trunk | 0.38 | 68.80 |
| Primary somatosensory cortex, forelimb region | S1FL |  |  | SSp-ul | Primary somatosensory area, upper limb | 3.96 | 68.10 |
| Primary somatosensory cortex, hindlimb region | S1HL |  |  | SSp-ll | Primary somatosensory area, lower limb | 2.79 | 68.53 |
| Primary somatosensory cortex, jaw region | S1J |  |  | SSp-m | Primary somatosensory area, mouth | 0.51 | 68.37 |
| Primary somatosensory cortex, shoulder region | S1Sh |  |  | SSp-tr | Primary somatosensory area, trunk | 0.24 | 68.61 |
| Primary somatosensory cortex, trunk region | S1Tr |  |  | SSp-tr | Primary somatosensory area, trunk | 0.71 | 68.93 |
| Primary somatosensory cortex, upper lip region | S1ULp |  |  | SSp-n | Primary somatosensory area, nose | 4.58 | 68.91 |
| Secondary somatosensory cortex | S2 |  |  | SSs | Supplemental somatosensory area | 6.11 | 69.12 |
| Temporal region  Auditory cortex |  |  |  |  |  |  |  |
| Primary auditory cortex | Au1 |  | | AUDp | Primary auditory area | 1.59 | 69.26 |
| Secondary auditory cortex, dorsal area | AuD |  | | AUDd | Dorsal auditory area | 1.75 | 69.97 |
| Secondary auditory cortex, ventral area | AuV |  | | AUDv | Ventral auditory area | 1.74 | 69.12 |
| Temporal association area | TeA |  | | TEa | Temporal association areas | 2.84 | 70.63 |
| Occipital region  Visual cortex |  |  |  |  |  |  |  |
| Primary visual cortex | V1 |  | | VISp | Primary visual area | 2.63 | 70.29 |
| Primary visual cortex, binocular area | V1B |  | | VISl | Lateral visual area | 2.35 | 69.61 |
| Primary visual cortex, monocular area | V1M |  | | VISpm | Posteromedial visual area | 2.16 | 68.66 |
| Secondary visual cortex, lateral area | V2L |  | | VISal | Anterolateral visual area | 3.02 | 70.25 |
| Secondary visual cortex, mediolateral area | V2ML |  | | VISam | Anteromedial visual area | 1.13 | 68.78 |
| Secondary visual cortex, mediomedial area | V2MM |  | | PTLp | Posterior parietal association areas | 1.93 | 69.19 |
| Cingulate region |  |  |  |  |  |  |  |
| Cingulate cortex, area 24a | A24a |  | | ACAv | Anterior cingulate area, ventral part | 1.67 | 73.18 |
| Cingulate cortex, area 24a’ | A24a’ |  | |  | Not differentiated | 0.62 | 70.77 |
| Cingulate cortex, area 24b | A24b |  | | ACAd | Anterior cingulate area, dorsal part | 1.63 | 71.11 |
| Cingulate cortex, area 24b’ | A24b’ |  | |  | Not differentiated | 0.59 | 69.64 |
| Cingulate cortex, area 25 | A25 |  | | ILA | Infralimbic area | 0.38 | 72.92 |
| Cingulate cortex, area 29a | A29a |  | | RSPv | Retrosplenial area, ventral part | 0.57 | 70.71 |
| Cingulate cortex, area 29b | A29b |  | | RSPv | Retrosplenial area, ventral part | 0.45 | 72.55 |
| Cingulate cortex, area 29c | A29c |  | | RSPv | Retrosplenial area, ventral part | 1.76 | 68.82 |
| Cingulate cortex, area 30 | A30 |  | | RSPd | Retrosplenial area, dorsal part | 2.95 | 68.78 |
| Cingulate cortex, area 32 | A32 |  | | PL | Prelimbic area | 1.67 | 71.52 |
| Insular region |  |  |  |  |  |  |  |
| Insular region, not subdivided | Ins |  | |  | Not differentiated | 6.55 | 71.14 |
| Ectorhinal cortex | Ect |  | | ECT | Ectorhinal area | 2.85 | 69.96 |
| Perirhinal cortex | PRh |  | | PERI | Perirhinal area | 2.45 | 69.28 |
|  |  |  | |  |  |  |  |

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Table 1 (*continued*)

The mouse brain in stereotaxic coordinates The allen reference atlas Region Structure names Abbreviations Abbreviations Structure names

Average volume (mm3)

Average signal intensity (%)

Lateral pallium

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Insular claustrum |  | | | | | |
| Claustrum | Cl |  | CLA | Claustrum | 0.20 | 67.96 |
| Claustrum, dorsal part | DCl |  | CLA | Claustrum | 0.21 | 72.07 |
| Claustrum, ventral part | VCl |  | CLA | Claustrum | 0.45 | 73.10 |

Ventral pallium

Endopiriform claustrum

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Dorsal nucleus of the endopiriform | DEn |  | EPd | Endopiriform nucleus, dorsal part | 1.06 | 70.13 |
| Intermediate nucleus of the endopiriform claustrum | IEn |  |  | Not differentiated | 0.43 | 66.51 |
| Ventral nucleus of the endopiriform claustrum | VEn |  | EPv | Endopiriform nucleus, ventral part | 0.37 | 70.23 |

Piriform cortex area

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Cortex-amygdala transition zones | CxA |  | PIR | Piriform area | 0.69 | 66.07 |
| Piriform cortex | Pir |  | PIR | Piriform area | 8.92 | 71.15 |
| Amygdalopiriform transition area | APir |  | TR | Postpiriform transition area | 0.83 | 69.64 |
| Rostral amygdalopiriform area | RAPir |  | PAA | Piriform-amygdalar area | 0.34 | 67.48 |
| Posterolateral cortical amygdaloid area PLCo COApl Cortical amygdalar area, posterior part,  lateral zone | | | | | 0.75 | 67.67 |
| Posteromedial cortical amygdaloid area PMCo COApm Cortical amygdalar area, posterior part, | | | | |  |  |
| medial zone | | | | | 1.08 | 70.20 |
| Fiber Groups |  |  |  |  |  |  |
| Corpus callosum / External capsule | cc/ec |  | cc/ec | Corpus callosum / External capsule | 6.63 | 50.60 |
| Cingulum | cg |  | cing | Cingulum bundle | 0.67 | 53.43 |
| Dorsal fornix | df |  | df | Dorsal fornix | 0.03 | 41.97 |
| Dorsal hippocampal fissure | dhc |  | dhc | Dorsal hippocampal fissure | 1.06 | 53.63 |
| Forceps minor of the corpus callosum | fmi |  | fa | Corpus callosum, anterior forceps | 1.23 | 57.34 |
| Lateral olfactory tract | lo |  | lot | Lateral olfactory tract | 0.29 | 43.33 |
|  |  |  |  |  |  |  |