**Supplementary Table 1. The brain regions analyzed for OTR binding with the Bregma coordinates from which they were identified.**

|  |  |
| --- | --- |
| OTR Binding | |
| Bregma Coordinates | **Brain Region Analysed** |
| 2.80mm | Anterior Olfactory Nucleus (AOM + AOV + AOL)  Lateral Orbital Cortex (LO)  Ventral Orbital Cortex (VO)  Medial Orbital Cortex (MO)  Frontal Association Cortex (FrA)  Granule Cell Layer of the Olfactory Bulb (GrO) |
| 1.10mm | Nucleus Accumbens (AcbC + AcbSh)  Olfactory Tubercle (Tu)  Piriform Cortex (Pir)  Dorsal Endopiriform Nucleus (DEn)  Medial Septal Nucleus (MS)  Nucleus of the vertical limb of the diagonal band (VDB)  Anterior Cingulate Cortex (Cg1 + Cg2)  Lateral Septal Nucleus (LS) |
| -2.06mm | Fields CA2 and CA3 of the Hippocampus (CA2 + CA3)  Medial Habenular nucleus (MHb)  Temporal Association Cortex (TeA)  Primary Somatosensory Cortex (S1)  Retrosplenial Granular Cortex (RSG)  Thalamus (Th)  Hypothalamus (Hyp)  Amygdala (Amy) |
| -2.54mm | Lateral Entorhinal Cortex (LEnt)  Auditory Cortex: (Au1 + AuD + AuV)  Visual Cortex: (V1 + V2L + V2ML + V2MM)  Substantia Nigra (SN)  Ventral Tegmental Area (VTA)  Periaqueductal Grey (PAG) |

**Supplementary Table 2. The brain regions analyzed for OTR binding with the Bregma coordinates from which they were identified.**

|  |  |
| --- | --- |
| MOPr Binding | |
| Bregma Coordinates | **Brain Region** |
| 2.80mm | Anterior Olfactory Nucleus (AOM + AOV + AOL)  Lateral Orbital Cortex (LO)  Ventral Orbital Cortex (VO)  Medial Orbital Cortex (MO)  Frontal Association Cortex (FrA) |
| 2.10mm | Primary and Secondary Motor Cortex (M1 + M2) |
| 1.98mm | Primary Somatosensory Cortex (S1) |
| 1.10mm | Nucleus Accumbens (AcbC + AcbSh)  Olfactory Tubercle (Tu)  Piriform Cortex (Pir)  Dorsal Endopiriform Nucleus (DEn)  Medial Septal Nucleus (MS)  Nucleus of the vertical limb of the diagonal band (VDB)  Anterior Cingulate Cortex (Cg1 + Cg2)  Lateral Septal Nucleus (LS) |
| -2.06mm | Fields CA2 and CA3 of the Hippocampus (CA2 + CA3)  Medial Habenular nucleus (MHb)  Temporal Association Cortex (TeA)  Primary Somatosensory Cortex (S1)  Retrosplenial Granular Cortex (RSG)  Thalamus (Th)  Hypothalamus (Hyp)  Amygdala (Amy)  Dorsal Dentate Gyrus (dDG) |
| -2.54mm | Lateral Entorhinal Cortex (LEnt)  Auditory Cortex: (Au1 + AuD + AuV)  Visual Cortex: (V1 + V2L + V2ML + V2MM)  Substantia Nigra (SN)  Ventral Tegmental Area (VTA)  Periaqueductal Grey (PAG) |