**Table 2.** FMRP-rich neuronal cell groups in the mouse brain.

Neuronal cell groups Neuronal cell groups Neuronal cell groups

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| **Spinal Cord** | **Cerebellum** | **Cerebral Cortex** |
| Grey matter | Dentate nucleus (DN) | Isocortex – all areas |
|  | Fastigial nucleus (FN) | Basolateral amygdalar nucleus (BLA) |
| **Brainstem** | Interposed nucleus (IP) | Basomedial amygdalar nucleus, |
| Abducens nucleus (VI) | Granular cells | posterior part (BMAp) |
| Dorsal motor nucleus | Purkinje neurons | Claustrum (CLA) |
| of the vagus nerve (DMX) |  | Cortical amygdalar area (COA) |
| External cuneate nucleus (ECU) | **Midbrain** | Endopiriform nucleus (EP) |
| Facial motor nucleus (VII) | Inferior colliculus (IC) | Lateral amygdalar nucleus (LA) |
| Gigantocellular reticular nucleus (GRN) | Midbrain trigeminal nucleus (MEV) |  |
| Gracile nucleus (GR) | Parabigeminal nucleus (PBG) | **Cerebral Nuclei** |
| Inferior olivary complex (IO) | Red nucleus (RN) | Caudoputamen (CP) |
| Lateral reticular nucleus, | Substantia nigra, compact part (SNc) | Diagonal band nucleus (NDB) |
| magnocellular part (LRNm) | Superior colliculus, intermediate gray layer (SCig) | Globus pallidus (GP) |
| Motor nucleus of the trigeminal (V) |  | Intercalated amygdalar nucleus (IA) |
| motor root of the trigeminal nerve (moV) | **Thalamus** | Islands of Calleja (isl) |
| Nucleus of the lateral lemniscus (NLL) | Lateral geniculate complex, dorsal part (LGd) | Medial amygdalar nucleus, |
| Nucleus of the trapezoid body (NTB) | Lateral habenula (LH) | posteroventral part (MEApv) |
| Nucleus raphe obscurus (RO) | Lateral posterior nucleus of the thalamus (LP) | Olfactory tubercle (OT) |
| Nucleus raphe pallidus (RPA) | Medial geniculate complex (MG) |  |
| Pontine gray (PG) | Medial habenula (MH) | **Hippocampus** |
| Principal sensory nucleus | Parafascicular nucleus (PF) | Dentate gyrus (DG) |
| of the trigeminal (PSV) | Posterior complex of the thalamus (PO) | Field CA1 (CA1) |
| Spinal nucleus of the trigeminal (SPV) | Ventral group of the dorsal thalamus (VENT) | Field CA2 (CA2) |
| Superior olivary complex (SOC) | Ventral posterior complex of the thalamus (VP) | Field CA3 (CA3) |
| Lateral superior olive (LSO) \* |  |  |
| Medial superior olive (MSO) \* | **Hypothalamus** | **Olfactory** |
| Superior paraolivary nucleus (SPO)\* | Dorsomedial nucleus of the hypothalamus (DMH) | Accessory olfactory bulb (AOB) |
| Tegmental reticular nucleus (TRN) | Lateral mammillary nucleus (LM) | Anterior olfactory nucleus (AON) |
| Ventral cochlear nucleus (VCO) | Medial mammillary nucleus, medial part (MMm)\* | Main olfactory bulb (MOB) |
| ­Vestibular nuclei (VNC) | Parasubthalamic nucleus (PSTN) | glomerular layer (MOBgl) |
| Lateral vestibular nucleus (LAV) | Subthalamic nucleus (STN) | granule layer (MOBgr) |
| Spinal vestibular nucleus (SPIV) | Tuberal nucleus (TU) | mitral layer (MOBmi) |
| Superior vestibular nucleus (SUV) | Tuberomammilliary nucleus, ventral part (TMv) | Nucleus of the lateral olfactory tract (NLOT) |
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\* indicates the cell groups whose name is not included in the Allen Mouse Brain Atlas (<http://atlas.brain-map.org>).