Supplement table 1: Binding protocols

Six different receptor binding sites were used in this study, covering several classical neurotransmitter systems: glutamatergic: AMPA, kainate; GABAergic: $GABA_A$; cholinergic: muscarinic M_1 and M_2; noradrenergic: α_1. Sections were incubated with the tritiated ligand (total binding) or with the tritiated ligand plus an unlabeled specific displacer (non-specific binding). The specific binding equals the difference between total and non-specific binding. Since the non-specific binding was less than 10% of the total binding in all cases and receptor types, the total binding was accepted as a good estimate of the specific binding (Zilles et al., 2002)

Receptor	**^{3}H-Ligand** [nM]	**Displacer** [µM]	**Incubation buffer**	**Preincubation**	**Main incubation**	**Rinsing**
glutamatergic	AMPA [10]	Quisqualat [10]	50 mM Trisacetat (ph 7,2) + 100 mM KSCN	3 x 10 min at 4°C	45 min at 4°C	3 x 4 s in buffer at 4°C 2 x 2 s in Aceton/Glutataldehyd at 4°C (100ml/2,5ml)
glutamatergic	Kainat [9,4]	Sym 2081 [100]	50mM Tris-citrat (pH 7,1) + 10mM Ca-acetat	3 x 10 min at 4°C	45 min at 4°C	3 x 4 s in buffer at 4°C 2 x 2 s in Aceton/Glutataldehyd at 4°C (100ml/2,5ml)
GABAergic	Muscimol [7,7]	GABA [10]	50 mM Tris-citrat (pH 7,0)	3 x 5 min at 4°C	40 min at 4°C	3 x in 3 cuvette buffer
cholinergic muscarinic M1	Pirenzepin [1,0]	Pirenzepin [10]	mod. Krebs-Ringer (pH 7,4)	20 min at 22°C fixation 20 min Bouin-steam rinsing 3 x 3 min in buffer	60 min at 22°C	2 x 5 min in buffer 3 x in Aqua bidest at 4°C
cholinergic muscarinic M2	Oxotremorin-M [0,8]	Carbachol [1]	20 mM Hepes-Tris (ph 7,5) + 10 mM $MgCl_2$	20 min at 22°C	60 min at 22°C	2 x 2 min in buffer at 4°C 3 x in Aqua bidest
noradrenergic α_1	Prazosin [0,4]	Phentolamin-mesylat [10]	50 mM Tris-HCL (pH 7,4)	30 min at 30°C	45 min at 30°C	2 x 5 min in buffer at 4°C 3 x in Aqua bidest

1. Zilles, K., Palomero-Gallagher, N., Grefkes, C., Scheperjans, F., Boy, C., Amunts, K., & Schleicher, A. (2002) *Eur. Neuropsychopharmacol.* **12**, 587-599.