

**Supplementary Table 1: Stereological sampling parameters in various brain regions implicated in motor control and coordination**

Brain region	Neurons counted/staining	No. of sections	Counting frame area ( $\mu\text{m}$ )	Sampling grid area ( $\mu\text{m}$ )
Sim	PC/cresyl	4	50 x 50	130 x 170
6cb		4		
Crus I		5		
Crus II		4		170 x 130
PM		4		
7cb		3		
SNc	TH+/ anti-TH mouse	5		150 x 150
Striatum	Total neurons/ anti-NeuN rabbit	12	40 x 40	375 x 325
M1/M2	Total neurons/ anti-NeuN rabbit	6	40 x 40	375 x 325