

Supporting Information

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Table S1. SC injection sites

Injection	Monkey	Amplitude (°)	Direction (°)	Agent	Task(s)
1	J	15	135	Muscimol	1
2	J	10	345	Muscimol	1, 2
3	J	12	160	Muscimol	1, 2
4	J	4	20	Muscimol	1, 2
5	J	11	85	Muscimol	1, 2
6	J	8	35	Muscimol	1, 2
7	J	15	205	Muscimol	1, 2
8	K	10	330	Muscimol	1, 2
9	K	12	145	Muscimol	1, 2
10	K	4	25	Muscimol	1
11	K	8	190	Muscimol	1, 2
12	K	6	355	Muscimol	1, 2
13	J	15	230	Saline	1, 2
14	J	13	25	Saline	1, 2
15	K	15	215	Muscimol	2
16	J	15	320	Saline	1, 2
17	K	7	145	Muscimol	1
18	K	5	85	Saline	1, 2
19	K	10	330	Saline	1, 2
20	K	7	25	Muscimol	1, 2

The amplitude and direction columns indicate the location, in visual field coordinates, represented at each injection site, as estimated from the electrically evoked saccades obtained (details are provided in *Materials and Methods*). All injections were of a volume of 0.5 μ L of the indicated agent. All muscimol injections were of a concentration of 0.5 μ g/ μ L. In the task(s) column, 1 indicates that the monkey was tested in the distractor task and 2 indicates that the monkey was tested in the centrally cued task.