

Supplementary Table 1: Individual motor thresholds as a percentage of maximum stimulator output from the lesioned (LH) and non-lesioned (NH) hemispheres at T1(1 month) and T2 (three months) after the stroke. S.D. indicates standard deviation.

Patient	LH T1	LH T2	NH T1	NH T2
1	n.d.	n.d.	85	91
2	50	56	55	51
3	75	78	57	58
4	n.d.	n.d.	71	81
5	43	44	34	41
6	57	50	42	42
7	49	57	47	47
8	54	51	54	46
9	80	75	59	61
10	46	49	43	42
11	78	64	77	64
12	63	58	54	51
13	64	56	67	69
Mean \pm S.D.	60 \pm 13	58 \pm 11	57 \pm 15	57 \pm 16

Supplementary Table 2: Mean values and standard deviations of the nTMS parameters at T1(1 month) and T2 (three months) after the stroke. MT indicates motor threshold as a percentage of the maximum stimulator output. Short intracortical inhibition (SICI) and intracortical facilitation (ICF) are given as normalized values; actual amplitude values have been divided with the MEP amplitude elicited by a single-pulse nTMS.

	Lesioned Hemisphere			Non-lesioned Hemisphere		
	MT	SICI	ICF	MT	SICI	ICF
T1	60 \pm 13%	0.8 \pm 0.6	3.6 \pm 2.1	57 \pm 15%	6.5 \pm 15.7	29.9 \pm 95.46
T2	58 \pm 11%	2.4 \pm 5.2	2.5 \pm 1.5	57 \pm 16%	1.0 \pm 1.1	2.4 \pm 3.0

Supplementary Table 3: Mean values and standard deviations of the MEG parameters at T1(1 month) and T2 (three months) after the stroke. Event-related desynchronization (ERD) and event-related synchronization (ERS) are given as a percentage of the prestimulus baseline amplitude in the selected frequency band. SI indicates the source strength of the somatosensory evoked fields elicited by stimulation of digit 2 (in nAm), and SIhr the distance of the representations of digit 1 and 5 in the hand somatosensory cortex (in mm). Values indicated with * differ significantly at $p < .05$, those indicated with ** differ at $p < .003$.

	Lesioned Hemisphere				Non-lesioned Hemisphere			
	ERD%	ERS%	SI (nAm)	SIhr (mm)	ERD%	ERS%	SI (nAm)	SIhr (mm)
T1	32 \pm 14	46.±31*	25 \pm 11*	12.±3**	35 \pm 10	63.±32*	32 \pm 13*	10 \pm 3**
T2	36 \pm 11	47 \pm 32	22 \pm 14	10.±3	37 \pm 13	61 \pm 35	23 \pm 22	10 \pm 3