

**Table S1** | Amplitude range of LFP signals recorded by means of the skull-fixed vs. the floating probes.

<b>Power range LFP signals</b>		
Week 8. All trials.		
(a.u.)		
	<b>Floating probe recorded signals</b>	<b>Skull-fixed probe recorded signals</b>
	( $\times 10^{-12}$ )	( $\times 10^{-12}$ )
Minima	4.992	4.751
	6.512	4.278
	7.239	3.566
	4.792	2.621
	4.329	2.654
	4.581	2.814
	6.106	2.315
	8.687	2.241
	6.034	2.813
	7.054	2.661
	5.640	2.497
	4.193	2.991
	7.345	3.353
	4.360	3.672
	5.956	2.516
	6.385	4.002
<b>Average</b>	<b>5.888</b>	<b>3.109</b>
	<b>Floating probe recorded signals</b>	<b>Skull-fixed probe recorded signals</b>
	( $\times 10^{-10}$ )	( $\times 10^{-11}$ )
Maxima	2.241	6.652
	1.876	8.731
	1.563	7.375
	1.970	8.960
	1.893	6.790
	2.131	6.149
	2.331	4.534
	1.436	7.814
	1.823	6.790
	1.574	6.922
	1.733	6.266
	1.363	6.636
	1.673	6.076
	1.349	7.323
	1.318	7.237
	1.890	6.264
<b>Average</b>	<b>1.760</b>	<b>6.907</b>
<b>Ratios max/min</b>	<b>29.891</b>	<b>22.216</b>
<b>Ratios min SFP / min FP</b>	<b>1.894</b>	
<b>Ratios max SFP/ max FP</b>	<b>2.548</b>	

SFP = Skull-fixed probe  
 FP = Floating probe