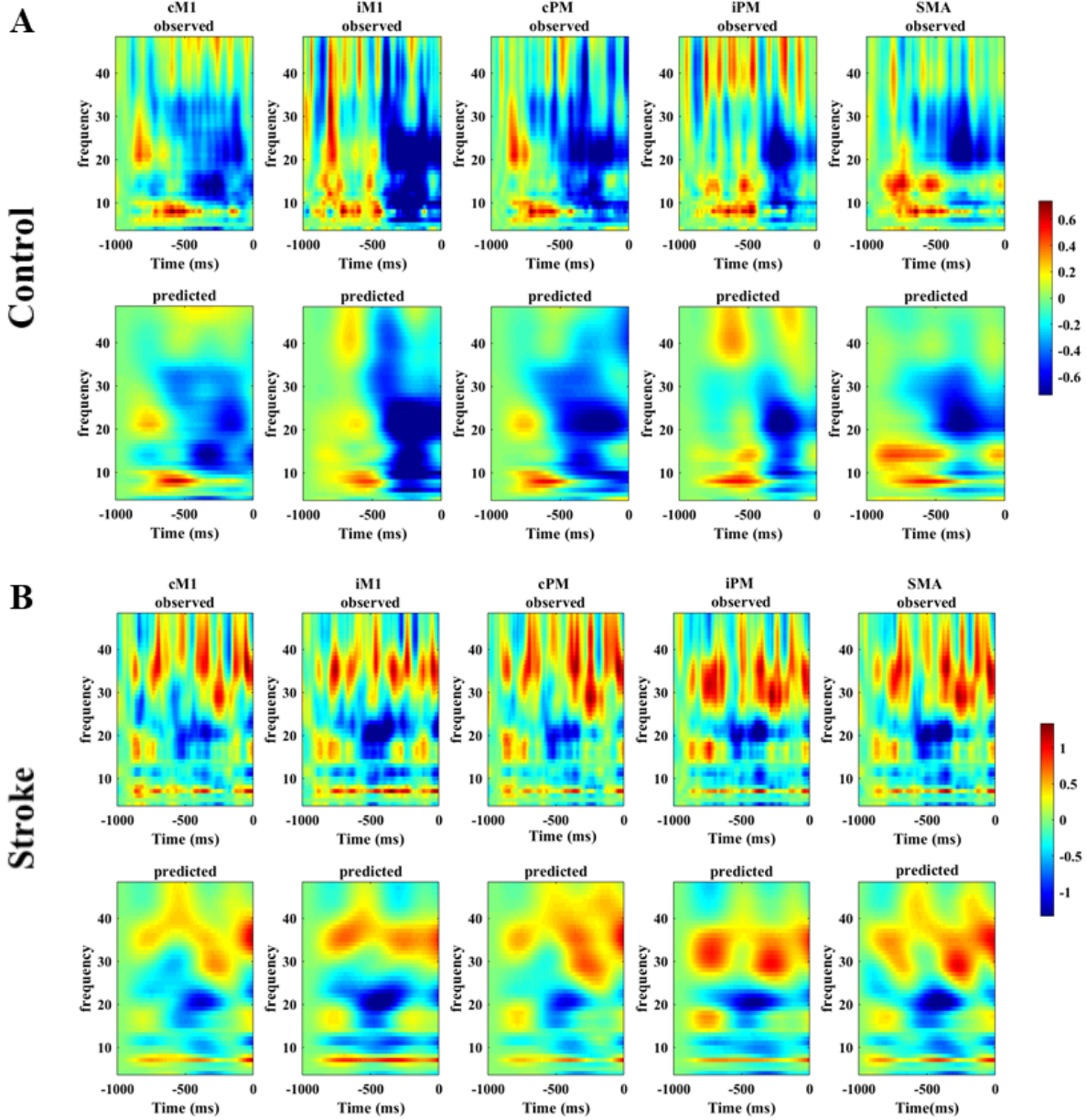




Supplementary Figure 1. A representative example of the observed and model-predicted spectrograms for each region using the winning model (Model 12) averaged across trials for Hand Opening (HO). (A-Top) The observed spectrogram for one healthy participant. (A-Bottom) The model- predicted spectrogram for one healthy participant. (B-Top) The observed spectrogram for one stroke participant with right affected hand. (B-Bottom) The model- predicted spectrogram for one stroke participant with right affected hand. Red represents an increase in power compared to baseline and blue represents a decrease in power compared to baseline. 0 ms indicates movement onset. Overall, the model explained ~85% of the original spectral variance for each group.

Supplementary Table 1. Exceedance probabilities

Model Family	Control	Stroke
Group 1	0.0002	0.0015
Group 2	0.9998	0.9985
Models within Group 2	Control	Stroke
7	0.0001	0.0004
8	0.0000	0.0002
9	0.0026	0.0003
10	0.0000	0.0000
11	0.0001	0.0000
12	0.9970	0.9983