Group differences in power (bilinguals - monolinguals) for each electrode region and frequency range. Values are the mean difference; italicized values are marginally significant after FDR-correction of the permuted t-tests, bold values indicate significant group difference after FDR-correction.

| Electrode Region 1 | Electrode Region 2 | Theta | Alpha | Low Beta | High Beta | Gamma |
|--------------------|--------------------|-------|-------|----------|-----------|-------|
| Left Fronto-Temporal | Medial-Frontal     | -0.20 | 0.07  | -0.05    | -0.03     | 0.03  |
| Medial-Frontal      |                    | -0.11 | 0.23  | 0.02     | 0.07      | 0.10  |
| Right Fronto-Temporal |                | -0.07 | 0.17  | 0.02     | 0.04      | 0.12  |
| Left Posterior      |                   | -0.08 | 0.22  | 0.01     | 0.07      | 0.09  |
| Right Posterior     |                   | -0.07 | 0.31  | 0.06     | 0.16      | 0.17  |

Group differences in coherence (bilinguals - monolinguals) for every connection between electrode regions and for each frequency range. Values are the mean difference; italicized values are marginally significant after FDR-correction of the permuted t-tests, bold values indicate significant group difference after FDR-correction.

| Connection between: | Theta | Alpha | Low Beta | High Beta | Gamma |
|--------------------|-------|-------|----------|-----------|-------|
| Left Fronto-Temporal | Medial Frontal | 0.005 | 0.008 | 0.004 | 0.006 | 0.006 |
| Left Fronto-Temporal | Right Fronto-Temporal | -0.002 | -0.007 | 0.000 | 0.006 | 0.007 |
| Left Fronto-Temporal | Left Fronto-Temporal | 0.008 | 0.002 | 0.002 | 0.005 | 0.005 |
| Left Posterior | Left Fronto-Temporal | 0.011 | **0.021** | **0.014** | **0.013** | 0.009 |
| Left Posterior | Medial Frontal | 0.005 | **0.020** | 0.009 | 0.007 | 0.004 |
| Left Posterior | Right Fronto-Temporal | 0.007 | **0.012** | **0.011** | 0.008 | 0.007 |
| Left Posterior | Right Posterior | 0.009 | **0.021** | 0.012 | 0.010 | 0.009 |
| Left Posterior | Left Posterior | 0.008 | **0.024** | 0.011 | 0.010 | 0.007 |
| Medial Frontal | Medial Frontal | **-0.018** | -0.010 | -0.014 | -0.005 | 0.001 |
| Right Fronto-Temporal | Medial Frontal | 0.002 | -0.010 | 0.003 | 0.006 | 0.007 |
| Right Fronto-Temporal | Right Fronto-Temporal | -0.007 | -0.012 | -0.002 | 0.005 | 0.007 |
| Right Posterior | Left Fronto-Temporal | 0.009 | **0.011** | 0.009 | 0.010 | 0.010 |
| Right Posterior | Medial Frontal | 0.013 | **0.012** | **0.017** | 0.013 | 0.011 |
| Right Posterior | Right Fronto-Temporal | 0.006 | 0.009 | **0.016** | 0.014 | **0.013** |
| Right Posterior | Right Posterior | 0.005 | **0.013** | 0.008 | 0.010 | **0.011** |