**S5 Table. Three-way repeated measures ANOVAs for the factors of Condition, Group, and Flow, and *post hoc* results.** The significant *P*-values were marked in bold letters. In thee-way ANOVAs for 2 groups $×$ 2 flows, and in *post hoc* paired *t* teat for 2 groups $×$ 3 conditions, the significance levels of *P*-values corrected by the Bonferroni test are \* *p* < 0.05, \*\* *p* < 0.001, and \*\*\* *p* < 0.001.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | ***F/t*** | ***P (uncorrected)*** | ***P (corrected)*** |
| ***Three-way ANOVA******in the left IFG*** | ***Condition*** | 2.859 | 0.064 | 0.257 |
| ***Condition*** $×$ ***Group*** | 4.634 | 0.013 | 0.052 |
| ***Condition*** $×$ ***Flow*** | 12.442 | **0.00002 \*\*\*** | **0.0001 \*\*\*** |
| ***Condition*** $×$ ***Group*** $×$ ***Flow*** | 14.661 | **0.000005 \*\*\*** | **0.00002 \*\*\*** |
| ***Group*** | 1.632 | 0.210 | 0.840 |
| ***Flow*** | 18.875 | **0.0001 \*\*** | **0.0005 \*\*** |
| ***Group*** $×$ ***Flow*** | 6.443 | 0.016 | 0.636 |
|  |  |  |  |  |
| ***Three-way ANOVA******in the right IFG*** | ***Condition*** | 0.758 | 0.445 | 1.0 |
| ***Condition*** $×$ ***Group*** | 0.730 | 0.456 | 1.0 |
| ***Condition*** $×$ ***Flow*** | 1.588 | 0.216 | 0.865 |
| ***Condition*** $×$ ***Group*** $×$ ***Flow*** | 2.880 | 0.077 | 0.306 |
| ***Group*** | 1.703 | 0.201 | 0.803 |
| ***Flow*** | 0.292 | 0.593 | 1.0 |
| ***Group*** $×$ ***Flow*** | 11.583 | **0.002 \*\*** | **0.007 \*\*** |
|  |  |  |  |  |
| ***Three-way ANOVA******in the left STG*** | ***Condition*** | 0.812 | 0.448 | 0.448 |
| ***Condition*** $×$ ***Group*** | 0.276 | 0.760 | 0.760 |
| ***Condition*** $×$ ***Flow*** | 3.094 | 0.052 | 0.207 |
| ***Condition*** $×$ ***Group*** $×$ ***Flow*** | 2.539 | 0.086 | 0.346 |
| ***Group*** | 0.113 | 0.739 | 1.0 |
| ***Flow*** | 12.196 | **0.001 \*\*\*** | **0.005 \*\*\*** |
| ***Group*** $×$ ***Flow*** | 0.087 | 0.770 | 1.0 |
|  |  |  |  |  |
| ***Three-way ANOVA******in the right STG*** | ***Condition*** | 0.986 | 0.360 | 1.0 |
| ***Condition*** $×$ ***Group*** | 0.322 | 0.666 | 1.0 |
| ***Condition*** $×$ ***Flow*** | 4.601 | 0.022 | 0.090 |
| ***Condition*** $×$ ***Group*** $×$ ***Flow*** | 1.800 | 0.183 | 0.730 |
| ***Group*** | 0.016 | 0.900 | 1.0 |
| ***Flow*** | 14.477 | **0.0006 \*\*** | **0.002 \*\*** |
| ***Group*** $×$ ***Flow*** | 0.046 | 0.832 | 1.0 |
|  |  |  |  |  |
| ***Post hoc*** ***paired t test******(Flow difference******in the left IFG)*** | ***Music-majors*** | ***Tonic*** | 1.631 | 0.142 | 0.849 |
| ***Submediant*** | 5.929 | **0.00035 \*\*** | **0.002 \*\*** |
| ***Supertonic*** | 0.829 | 0.431 | 0.257 |
| ***Non-Music-majors*** | ***Tonic*** | 2.994 | 0.015 | 0.091 |
| ***Submediant*** | 0.086 | 0.934 | 1.0 |
| ***Supertonic*** | -1.561 | 0.153 | 0.917 |
|  |  |  |  |  |  |
| ***Post hoc*** ***paired t test******(Flow difference******in the right IFG)*** | ***Music-majors*** | ***Tonic*** | 0.175 | 0.865 | 1.0 |
| ***Submediant*** | -3.784 | **0.005 \*** | **0.032 \*** |
| ***Supertonic*** | -0.657 | 0.530 | 1.0 |
| ***Non-Music-majors*** | ***Tonic*** | 0.030 | 0.977 | 0.091 |
| ***Submediant*** | 0.989 | 0.349 | 1.0 |
| ***Supertonic*** | 2.226 | 0.053 | 0.917 |