

Cerebral Mechanisms Underlying the Effects of Music during a Fatiguing Isometric Ankle-
Dorsiflexion Task

*****Table 1*****

Table 1

Mixed-Model Repeated-Measures ANOVA and t Test Results.

Affective Valence – Within-subjects effects	<i>F</i>	<i>p</i>	η_p^2
Experimental Condition	7.45	.014	.29
Time	3.01	.100	.14
Experimental Condition x Time	2.32	.145	.11
Felt Arousal – Within-subjects effects	<i>F</i>	<i>p</i>	η_p^2
Experimental Condition	.681	.420	.03
Time	53.5	.000	.74
Experimental Condition x Time	.656	.428	.03
Situational Motivation – Within-subjects effects	<i>F</i>	<i>p</i>	η_p^2
Experimental Condition	2.85	.108	.13
Time	.007	.933	.00
Experimental Condition x Time	1.67	.213	.08
Limb Discomfort – Within-subjects effects	<i>F</i>	<i>p</i>	η_p^2
Experimental Condition	.000	1.00	.00
Time	101	.000	.84
Experimental Condition x Time	1.69	.209	.08
	<i>t</i>	<i>p</i>	
Time to exhaustion (s)	-2.25	.037	
Attentional shift (slope)	-2.49	.023	

Note. η_p^2 = partial eta squared; Power = Observed power (computed using an alpha of .05).

Table 2

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Oneway ANOVA (F and p Values) Results.

Electrodes	Theta (<i>F</i>)	Theta (<i>p</i>)	Alpha (<i>F</i>)	Alpha (<i>p</i>)	Beta (<i>F</i>)	Beta (<i>p</i>)
FP1	3.327	.044*	2.215	.120	.791	.459
FPZ	3.017	.058	1.977	.150	.889	.418
FP2	2.866	.067	1.839	.170	.849	.434
AF3	3.940	.026*	4.430	.017*	.780	.464
AF4	2.589	.086	1.755	.184	.345	.710
F7	2.080	.136	2.049	.140	.602	.552
F5	3.467	.039*	2.468	.095	1.240	.299
F3	3.517	.038*	2.493	.093	1.403	.256
F1	3.296	.046*	1.419	.252	1.543	.224
FZ	2.437	.098	.747	.479	1.145	.327
F2	2.509	.092	.978	.384	1.117	.336
F4	2.317	.110	.907	.411	.874	.424
F6	2.301	.111	.601	.553	.902	.413
F8	1.637	.205	1.836	.171	.827	.443
FT7	1.949	.154	1.127	.332	.665	.519
FC5	2.813	.070	1.624	.208	.721	.491
FC3	2.893	.065	1.302	.281	1.227	.302
FC1	3.056	.056	1.589	.215	1.696	.194
FCZ	3.134	.053	1.244	.297	1.707	.192
FC2	3.458	.040*	1.354	.268	1.901	.161
FC4	2.982	.060	1.345	.270	.276	.760
FC6	2.143	.128	1.313	.278	.204	.816
FT8	2.325	.109	1.665	.200	.583	.562
T7	2.058	.139	1.200	.310	.840	.438
C5	2.310	.110	.740	.482	.585	.561
C3	2.761	.073	.494	.613	1.088	.345
C1	3.698	.032*	1.655	.202	1.290	.285
CZ	3.888	.027*	1.639	.205	1.285	.286
C2	3.903	.027*	1.404	.256	1.374	.263
C4	3.181	.050*	.883	.420	.313	.733
C6	2.799	.071	1.034	.363	.584	.562
T8	3.085	.055	1.245	.297	.615	.545
TP7	2.210	.121	.997	.376	1.563	.220
CP5	2.686	.078	1.171	.319	.619	.543
CP3	2.887	.065	.882	.421	1.079	.348
CP1	1.999	.147	1.355	.268	1.049	.358
CPZ	3.678	.033*	1.040	.361	.939	.398
CP2	3.897	.027*	1.262	.292	1.224	.303
CP4	3.901	.027*	1.554	.222	.678	.512
CP6	3.828	.029*	1.788	.178	.670	.516
TP8	3.404	.041*	1.437	.248	.754	.476
P7	3.074	.055	2.549	.089	3.153	.052

Table 2 Continues

Electrodes	Theta (<i>F</i>)	Theta (<i>p</i>)	Alpha (<i>F</i>)	Alpha (<i>p</i>)	Beta (<i>F</i>)	Beta (<i>p</i>)
P5	3.132	.053	2.671	.079	2.085	.135
P3	3.309	.045*	2.388	.103	2.035	.142
P1	3.792	.030*	2.539	.089	1.669	.199
PZ	3.804	.029*	1.820	.173	1.665	.200
P2	3.706	.032*	1.820	.173	1.296	.283
P4	4.137	.022*	2.743	.074	1.768	.182
P6	4.136	.022*	2.466	.096	1.162	.322
P8	3.561	.036*	1.473	.239	1.957	.152
PO7	3.483	.039*	1.964	.151	1.411	.254
PO5	2.747	.074	1.584	.216	1.896	.161
PO3	2.718	.076	1.564	.220	1.904	.160
POZ	3.441	.040*	1.961	.152	2.205	.121
PO4	3.829	.029*	2.749	.074	2.581	.086
PO6	3.766	.030*	2.527	.090	2.419	.100
PO8	3.800	.029*	2.424	.099	2.427	.099
CB1	2.598	.085	1.395	.258	1.933	.156
O1	.821	.447	.370	.693	.826	.445
OZ	3.900	.027*	2.227	.119	3.019	.058
O2	3.742	.031*	2.709	.077	2.678	.079
CB2	2.105	.133	1.242	.298	1.007	.373

* $p < .05$.