**Supplementary File 1**

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| --- |
| Fixed effects: Vividness Model (Pupil\_dilation ~ Vivid\_Rating + SetSize + (1 | ID)) |
| Estimate Std. Error t value |
| (Intercept) 0.15909 0.03645 4.365 |
| Vivid\_Rating2 0.07556 0.02563 2.948 |
| Vivid\_Rating3 0.17058 0.02488 6.855 |
| Vivid\_Rating4 0.14879 0.02528 5.887 |
| SS -0.07980 0.01663 -4.797 |

**Supplementary File 1:** Fixed effects for LME of vividness data (see Figure 1D)