**Supplementary Table 1.** Bayesian ANOVA results comparing the signal-to-noise ratio, Shannon entropy and average correlation between the different S-R category templates under declarative and procedural formats. The table presents $BF_{10}$ values ($BF_{10} < 0.3$ can be interpreted as strong evidence for a null effect). The observed values are overall within this range, suggesting similar signal-to-noise, informational density and average correlation between templates of different format and S-R category.

| | Signal-to-noise ratio | | | Shannon entropy | | | Average correlation | | |
|---|---|---|---|---|---|---|---|---|---|
| | Format | Category | F*C | Format | Category | F*C | Format | Category | F*C |
| **lPFC** | 0.292 | 0.05 | 0.056 | 0.164 | 0.03 | 0.067 | 0.229 | 0.029 | 0.065 |
| **rPFC** | 0.209 | 0.027 | 0.085 | 0.208 | 0.031 | 0.091 | 0.186 | 0.03 | 0.063 |
| **lPar** | 0.151 | 0.028 | 0.061 | 0.425 | 0.037 | 0.095 | 0.236 | 0.027 | 0.066 |
| **rPar** | 0.151 | 0.026 | 0.059 | 0.442 | 0.043 | 0.069 | 0.153 | 0.031 | 0.061 |
| **VVC** | 0.15 | 0.062 | 0.097 | 0.149 | 0.043 | 0.165 | 0.358 | 0.026 | 0.065 |
| **M1** | 0.406 | 0.059 | 0.065 | 0.498 | 0.046 | 0.08 | 0.0151 | 0.028 | 0.066 |