**Figure 6 – source data 1**

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| **Social recognition - MeA vs. All** |
| **Figure 6 – source data 1a -** one-sided corrected paired t-test (Fig.6d) |
| **MeA** | **vs.** | **n** | **t** | **p** |
| **Base vs. Enc. 1** | **AOB** | 11 | -1.0045 | >0.05 |
| **MOB** | 11 | 0.924 | >0.05 |
| **LS** | 10 | -3.0458 | **<0.05** |
| **Pir** | 11 | -3.8628 | **<0.005** |
| **Base vs. Post 1** | **AOB** | 11 | -1.4723 | >0.05 |
| **MOB** | 11 | -0.3362 | >0.05 |
| **LS** | 10 | -2.3561 | **<0.05** |
| **Pir** | 11 | -2.6767 | **<0.03** |
| **Social recognition - MOB vs. All** |
| **Figure 6 – source data 1b -** one-sided corrected paired t-test (Fig.6e) |
| **MOB** | **vs.** | **n/df** | **t** | **p** |
| **Base vs. Enc. 1** | **AOB** | 11 | -3.9002 | **<0.005** |
| **MeA** | 11 | 0.924 | >0.05 |
| **LS** | 10 | 0.4468 | >0.05 |
| **Pir** | 11 | 0.1002 | >0.05 |
| **Base vs. Post 1** | **AOB** | 11 | -2.3061 | **<0.05** |
| **MeA** | 11 | -0.3362 | >0.05 |
| **LS** | 10 | -0.1999 | >0.05 |
| **Pir** | 11 | 0.3943 | >0.05 |
| **Object recognition - MeA vs. All** |
| **Figure 6 – source data 1c -** one-sided corrected paired t-test (Fig.6f) |
| **MeA** | **vs.** | **n** | **t** | **p** |
| **Base vs. Enc. 1** | **AOB** | 5 | -0.3898 | >0.05 |
| **MOB** | 5 | -0.295 | >0.05 |
| **LS** | 5 | -1.4958 | >0.05 |
| **Pir** | 5 | -1.8165 | >0.05 |
| **Base vs. Post 1** | **AOB** | 5 | -0.7966 | >0.05 |
| **MOB** | 5 | -0.7301 | >0.05 |
| **LS** | 5 | -1.1095 | >0.05 |
| **Pir** | 5 | -1.1095 | >0.05 |
| **Object recognition - MOB vs. All** |
| **Figure 6 – source data 1d -** one-sided corrected paired t-test (Fig.6g) |
| **MOB** | **vs.** | **n** | **t** | **p** |
| **Base vs. Enc. 1** | **AOB** | 5 | -4.8906 | **<0.005** |
| **LS** | 5 | 0.4877 | >0.05 |
| **Pir** | 5 | 0.4902 | >0.05 |
| **MeA** | 5 | -0.295 | >0.05 |
| **Base vs. Post 1** | **AOB** | 5 | -1.5652 | >0.05 |
| **LS** | 5 | 1.4481 | >0.05 |
| **Pir** | 5 | 0.4052 | <0.05 |
| **MeA** | 5 | -0.7301 | >0.05 |

**Figure 6 – source data 1: Assessment of change in theta Coherence from Base to either Enc. 1 or Post 1**

The change from Base to Enc. 1 (upper) and from Base to Post 1 (lower), in theta coherence during social recognition between the MeA and all other areas (**1a**) and between the MOB and all areas (**1b**), as well as during object recognition between the MeA and all other areas (**1c**), and between the MOB and all areas (**1d**), was statistically validated usingpaired t-tests, corrected for multiple comparisons (Bonferroni correction). The assumption of normality was assessed by Lilliefors and Shapiro-Wilk tests**.**