**Supplementary File 1 | The effect of sex on behaviour and on glu/GABA ratio in V1**

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| **Test** | **T-statistic** | **p-value** |
| Behavioural performance during the *inference test*  (performed inside MRI scanner) | t17=0.50 | p=0.622 |
| Behavioural performance during the post-scan *associative test* | t17=0.42 | p=0.674 |
| glu/GABA ratio in V1 during the question period in the *inference test* | t16=1.67 | p=0.215 |