**RESULTS**

Sizes of Active Areas

The following table summarizes the sizes of active visual areas on the cortices of each subject. The first 3 columns show the occupied areas in 1000’s of mm2. The last 3 columns show the ratio as compared to V1.

Table 1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | V1 | V2 | V3 | V1/V1 | V2/V1 | V3/V1 |
| Subject 1 | 2.98 | 2.36 | 1.78 | 1.00 | 0.79 | 0.60 |
| **Subject 2** | **3.59** | **3.48** | **2.51** | **1.00** | **0.97** | **0.70** |
| **Subject 3** | **2.82** | **3.30** | **2.32** | **1.00** | **1.17** | **0.82** |
| Subject 4 | 2.81 | 2.56 | 2.35 | 1.00 | 0.91 | 0.84 |
| **Subject 5** | **2.66** | **2.59** | **2.13** | **1.00** | **0.97** | **0.80** |
| Subject 6 | 2.47 | 2.30 | 1.53 | 1.00 | 0.93 | 0.62 |
| Subject 7 | 2.87 | 2.74 | 2.52 | 1.00 | 0.95 | 0.88 |
| Subject 8 | 2.93 | 2.37 | 2.53 | 1.00 | 0.81 | 0.86 |
| Subject 9 | 2.62 | 2.14 | 1.84 | 1.00 | 0.82 | 0.70 |
| Subject 10 | 2.12 | 1.47 | 1.26 | 1.00 | 0.69 | 0.59 |
| Subject 11 | 1.87 | 1.59 | 1.44 | 1.00 | 0.85 | 0.77 |
| **Subject 12** | **1.79** | **1.96** | **1.69** | **1.00** | **1.09** | **0.94** |
| **Subject 13** | **1.79** | **1.77** | **1.73** | **1.00** | **0.99** | **0.97** |
| Subject 14 | 2.31 | 2.02 | 1.68 | 1.00 | 0.87 | 0.73 |
| Subject 15 | 1.91 | 1.57 | 1.35 | 1.00 | 0.82 | 0.71 |
| Subject 16 | 1.94 | 1.80 | 1.41 | 1.00 | 0.93 | 0.73 |
| Subject 17 | 2.16 | 2.02 | 1.69 | 1.00 | 0.94 | 0.78 |
| Subject 18 | 2.49 | 1.86 | 1.25 | 1.00 | 0.75 | 0.50 |
| Subject 19 | 1.97 | 1.67 | 1.83 | 1.00 | 0.85 | 0.93 |
| **Subject 20** | **2.06** | **2.06** | **1.85** | **1.00** | **1.00** | **0.90** |
| Mean | 2.41 | 2.18 | 1.83 | 1.00 | 0.91 | 0.76 |

Time course correlations

We compare the time courses of time component 1, C1, and the simulated true time course, T1. MATLAB’s internal function *corrcoef* was use for comparing the time courses. The

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **No External Sources** | | | **0.1 External Sources** | | | **0.5 External Sources** | | |
|  | **C1** | C2 | C3 | **C1** | C2 | C3 | **C1** | C2 | C3 |
| Subject 1 | **0.99** | 0.89 | 0.63 | **0.96** | 0.79 | 0.36 | **0.52** | 0.44 | 0.19 |
| Subject 2 | **0.85** | 0.92 | 0.77 | **0.86** | 0.93 | 0.75 | **0.83** | 0.88 | 0.24 |
| Subject 3 | **0.91** | 0.95 | 0.62 | **0.91** | 0.95 | 0.58 | **0.56** | 0.85 | 0.38 |
| Subject 4 | **0.99** | 0.86 | 0.66 | **0.98** | 0.84 | 0.63 | **0.69** | 0.45 | 0.48 |
| Subject 5 | **0.97** | 0.81 | 0.59 | **0.96** | 0.86 | 0.60 | **0.39** | 0.60 | 0.13 |
| Subject 6 | **0.99** | 0.96 | 0.85 | **0.98** | 0.94 | 0.72 | **0.43** | 0.73 | 0.83 |
| Subject 7 | **0.95** | 0.92 | 0.56 | **0.96** | 0.95 | 0.60 | **0.34** | 0.51 | 0.47 |
| Subject 8 | **0.97** | 0.88 | 0.63 | **0.97** | 0.76 | 0.49 | **0.88** | 0.60 | 0.09 |
| Subject 9 | **0.97** | 0.91 | 0.77 | **0.97** | 0.89 | 0.71 | **0.77** | 0.37 | 0.40 |
| Subject 10 | **1.00** | 0.93 | 0.73 | **1.00** | 0.93 | 0.72 | **0.92** | 0.35 | 0.43 |
| Subject 11 | **0.98** | 0.86 | 0.60 | **0.98** | 0.82 | 0.49 | **0.67** | 0.51 | 0.17 |
| Subject 12 | **1.00** | 0.94 | 0.78 | **0.99** | 0.96 | 0.76 | **0.38** | 0.71 | 0.27 |
| Subject 13 | **0.80** | 0.59 | 0.60 | **0.75** | 0.46 | 0.47 | **0.73** | 0.42 | 0.41 |
| Subject 14 | **1.00** | 0.88 | 0.61 | **1.00** | 0.90 | 0.65 | **0.67** | 0.42 | 0.82 |
| Subject 15 | **1.00** | 0.94 | 0.72 | **0.99** | 0.95 | 0.69 | **0.27** | 0.48 | 0.11 |
| Subject 16 | **1.00** | 0.98 | 0.79 | **0.99** | 0.97 | 0.75 | **0.86** | 0.65 | 0.29 |
| Subject 17 | **0.96** | 0.87 | 0.78 | **0.95** | 0.86 | 0.75 | **0.86** | 0.74 | 0.32 |
| Subject 18 | **0.99** | 0.94 | 0.70 | **0.98** | 0.94 | 0.61 | **0.21** | 0.01 | 0.41 |
| Subject 19 | **0.99** | 0.87 | 0.69 | **0.99** | 0.88 | 0.68 | **0.94** | 0.71 | 0.62 |
| Subject 20 | **0.85** | 0.66 | 0.54 | **0.81** | 0.48 | 0.35 | **0.70** | 0.49 | 0.28 |
| Mean | **0.96** | 0.88 | 0.68 | **0.95** | 0.85 | 0.62 | **0.63** | 0.55 | 0.37 |