## Supplementary Tables

### Supplementary Table 1. Modulation by linguistic demand: $p$ values for pairwise comparisons between multiple demand regions

|          | L IFJ | R IFJ | L aIns | R aIns | L SMA | R SMA | L PMd | R PMd | L IPS | R IPS | L OT |
|----------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| L IFJ    |       |       |        |        |       |       |       |       |       |       |      |
| R IFJ    | .85   |       |        |        |       |       |       |       |       |       |      |
| L aIns   | .38   | .98   |        |        |       |       |       |       |       |       |      |
| R aIns   | .80   | 1     | .88    |        |       |       |       |       |       |       |      |
| L SMA    | 1     | 1     | .65    | .95    |       |       |       |       |       |       |      |
| R SMA    | 1     | .85   | .18    | .21    | 1     |       |       |       |       |       |      |
| L PMd    | .016* | .14   | .79    | .080   | .10   | .013* |       |       |       |       |      |
| R PMd    | .78   | .99   | 1      | 1      | .98   | .72   | .88   |       |       |       |      |
| L IPS    | 1     | .99   | .68    | .93    | 1     | 1     | .044* | .53   |       |       |      |
| R IPS    | .77   | 1     | 1      | 1      | .94   | .69   | .93   | 1     | .19   |       |      |
| L OT     | .99   | .24   | .059   | .11    | .43   | .96   | .0002*| .11   | .44   | .0051*|      |
| R OT     | 1     | .94   | .5     | .76    | 1     | 1     | .032* | .54   | 1     | .11   | .86  |

All $p$ values are corrected for multiple comparisons. * = $p < .05$. See Figure 7 caption for abbreviations.
**Supplementary Table 2.** Modulation by linguistic demand relative to non-linguistic demand: *p* values for pairwise comparisons between multiple demand regions

|         | L IFJ | R IFJ | L alns | R alns | L SMA | R SMA | L PMd | R PMd | L IPS | R IPS | L OT |
|---------|-------|-------|--------|--------|-------|-------|-------|-------|-------|-------|------|
| L IFJ   |       | .57   |        |        |       |       |       |       |       |       |      |
| R IFJ   | .97   |       | .0063 *|        |       |       |       |       |       |       |      |
| L alns  | 1     | .88   | .058   |        |       |       |       |       |       |       |      |
| R alns  | .019 *| 1     | .88    | .058   |       |       |       |       |       |       |      |
| L SMA   | .019 *| 1     | .082   |        |       |       |       |       |       |       |      |
| R SMA   | .76   | .46   | .36    |        |       |       |       |       |       |       |      |
| L PMd   | .98   | 1     | .01    | .019 *| 1     | .067  | .99   |       |       |       |      |
| R PMd   | .89   | 1     | .0035 *| .98   | .021 *| .80   | 1     |       |       |       |      |
| L IPS   | .0006 *| .0004 *| <.0001 *| .0004 *| <.0001 *| .0026 *| .0002 *| .0076 *|       |       |      |
| R IPS   | .0001 *| .014 *| .0001 *| .018 *| <.0001 *| .0046 *| .0011 *| .019 *| .99   |       |      |
| L OT    | .97   | 1     | .024 *| 1     | .026 *| .99   | 1     | 1     | .0001 *| .0003 *|      |
| R OT    | .97   | .98   | .60    | 1     | .61   | 1     | .87   | .0021 *| .0044 *| .95   |      |

All *p* values are corrected for multiple comparisons. * = *p* < .05. See Figure 7 caption for abbreviations.
**Supplementary Table 3.** Modulation by linguistic demand: $p$ values for pairwise comparisons between language regions

|          | L IFGpop | L IFGpt | L SMA  | L Fus | L pSTS | L aSTS | L Hipp | R IFGpt | R pSTS |
|----------|----------|---------|--------|-------|--------|--------|--------|---------|--------|
| L IFGpop |          |         |        |       |        |        |        |         |        |
| L IFGpt  | 1        |         |        |       |        |        |        |         |        |
| L SMA    | .011 *   | .0005 * | .0005 *|       |        |        |        |         |        |
| L Fus    | .52      | .34     | .94    |       |        |        |        |         |        |
| L pSTS   | .014 *   | .0072 * | .97    | .99   | .99    | .99    |        |         |        |
| L aSTS   | .034 *   | .0065 * | .019 * | .99   | .99    | .99    | .99    | .88     |        |
| L Hipp   | .010 *   | .0087 * | .97    | .019 *| .99    | .99    | .99    | .63     | .63    |
| R IFGpt  | .14      | .034 *  | .87    | 1     | 1      | 1      |        |         | .88    |
| R pSTS   | .010 *   | .0023 * | .91    | .12   | .97    | .98    | 1      | .63     |        |
| R aSTS   | .019 *   | .0062 * | .94    | .13   | .99    | .99    | 1      | .71     | 1      |

All $p$ values are corrected for multiple comparisons. * = $p < .05$. See Figure 7 caption for abbreviations.
**Supplementary Table 4.** Modulation by linguistic demand relative to perceptual demand: \( p \) values for pairwise comparisons between language regions

|                  | L IFGpop | L IFGpt | L SMA  | L Fus  | L pSTS | L aSTS | L Hipp | R IFGpt | R pSTS |
|------------------|----------|---------|--------|--------|--------|--------|--------|---------|--------|
| L IFGpop         |          |         |        |        |        |        |        |         |        |
| L IFGpt          | .013 *   |         |        |        |        |        |        |         |        |
| L SMA            | .82      | .0001 * |        |        |        |        |        |         |        |
| L Fus            | .61      | .0001 * | 1      |        |        |        |        |         |        |
| L pSTS           | 1        | .025 *  | .26    | .11    |        |        |        |         |        |
| L aSTS           | 1        | .40     | .67    | .47    | 1      |        |        |         |        |
| L Hipp           | .97      | .0079 * | 1      | 1      | .63    | .89    |        |         |        |
| R IFGpt          | .78      | .0001 * | 1      | 1      | .14    | .54    | 1      |         |        |
| R pSTS           | .91      | .0008 * | 1      | 1      | .33    | .85    | 1      | 1       |        |
| R aSTS           | .99      | .0020 * | 1      | .79    | .74    | .89    | .99    | .92     | 1      |

All \( p \) values are corrected for multiple comparisons. * = \( p < .05 \). See Figure 7 caption for abbreviations.