



*Supplementary Figure 2.* Evidence for the lateral distribution of the N170 effect and the absence of a correlation between ISPV and its magnitude: (a) The classic N170 effect: the N170 is larger to faces than to non-face categories (here shown at P8 electrode). (b) There is also a significant difference in amplitude and latency of the N170 between upright and inverted human faces, which have exactly the same ISPV. (c) The bar graph shows that the amplitude of the N170 does not vary linearly with the ISPV, in contrast to Thierry et al.'s claim. In particular, cars and human faces had almost identical ISPV (red line) but the N170 to faces was much larger than that to cars. Similarly, ape faces had a similar N170 amplitude as human upright faces with much lower ISPV. These data directly contradict Thierry et al's conclusions. (d) The topographic plot shows the very restricted posterior and lateral distribution of the N170 (in blue); the N170 is effectively absent at medial and superior sites. Adapted from: Itier, Latinus, Taylor. *Neuroimage*, 2006, 29, 667-676.