Event Onset | Presentation | Cue | Production

pSTG. Responds to onset of sounds. suppression during production — 2

pSTG. Responds throughout sound duration — 69

mSTG. Later activation during perception — 117

aSTG, later onset during perception and production, extending — 197

aSTG, later onset during perception and production, extending beyond stumulus — 244

premotor. responds to perception and cue. Response during perception is same for all word length — 188

premotor — 155

premotor. active during perception and after the beep. Same response for all word lengths — 95

premotor — 125

dorsal premotor. Active after perception but before production — 112

-- Aligned at Presentation
-- Aligned at Cue
--Aligned at Production

zscore

Figure 1.
Averaged ERP zscore (Column 1), Stacked ERP zscore (Columns 2,3,4), and electrode position on brain (Column 5) showing activation stream throughout task.
Column 1 is averaged ERP's aligned at word presentation onset (red), cue onset (black), and production onset (blue), with dotted aligned denoting event onset.
Column 2 is ERP zscores for all trials aligned at presentation onset (dotted line), and curved line denoting presentation offset for each trial (trials are ordered by word length)
Column 3 is ERP zscores for all trials aligned at cue onset (dotted line), and curved line denoting production onset for each trial.
Column 4 is ERP zscores for all trials aligned at production onset (dotted line), and curved line denoting production offset for each trial.