



Supplementary Figure 3. Brain regions showed more activity during SWE than NEU in repeated ANOVA and linear patterns of activation between SWE, NEG and NEU. Several brain regions, the left VLPFC, left insular, bilateral DMPFC and left amygdala, were more activated during SWE compared to NEU ($Z > 2.3$, corrected $p < 0.05$). In these regions, there were linear patterns of activations between SWE, NEG and NEU. L: left, VLPFC: ventrolateral prefrontal cortex, DLPFC: dorsolateral prefrontal cortex, DMPFC: dorsomedial prefrontal cortex, VMPPFC: ventromedial prefrontal cortex, LOC: lateral occipital cortex, PCC: posterior cingulate cortex, SWE: swearing, NEG: negative, POS: positive, NEU: neutral word, ANOVA: analysis of variance.