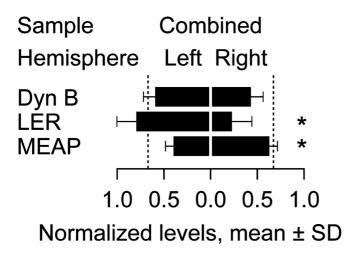
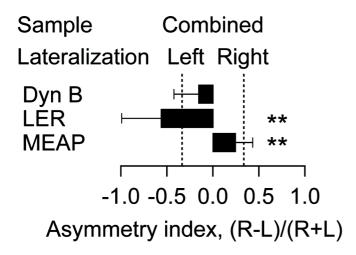
Supplementary Figure 1a



Comparison of the opioid peptide levels between the left and the right pgACC in the replication sample (N=12 including 9 male and 3 female subjects). Data are shown as mean ± SD of the normalized levels in the LH [L/(L+R)] and RH [R/(L+R)], where L and R is level in the LH and RH, respectively. Dashed lines at a 0.66 value mark 2-fold differences between the hemispheres. Significance levels in ANOVAs: lateralization effects, * $p \le 0.05$.

Supplementary Figure 1b



The asymmetry index (AI) of the opioid peptides in the pgACC. The AI [(R-L)/(R+L)] is a measure of hemispheric differences which the -1.0 and +1.0 values indicate a complete left or right lateralization, respectively, and the 0.0 value symmetric distribution. Data bars represent means \pm SD. Dashed lines at the -0.33 and +0.33 AI values mark 2-fold differences between hemispheres. Significance in the MANOVA for lateralization effect: **p < 0.01.