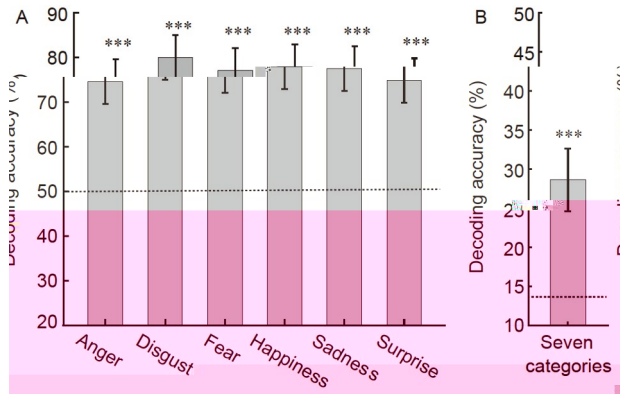
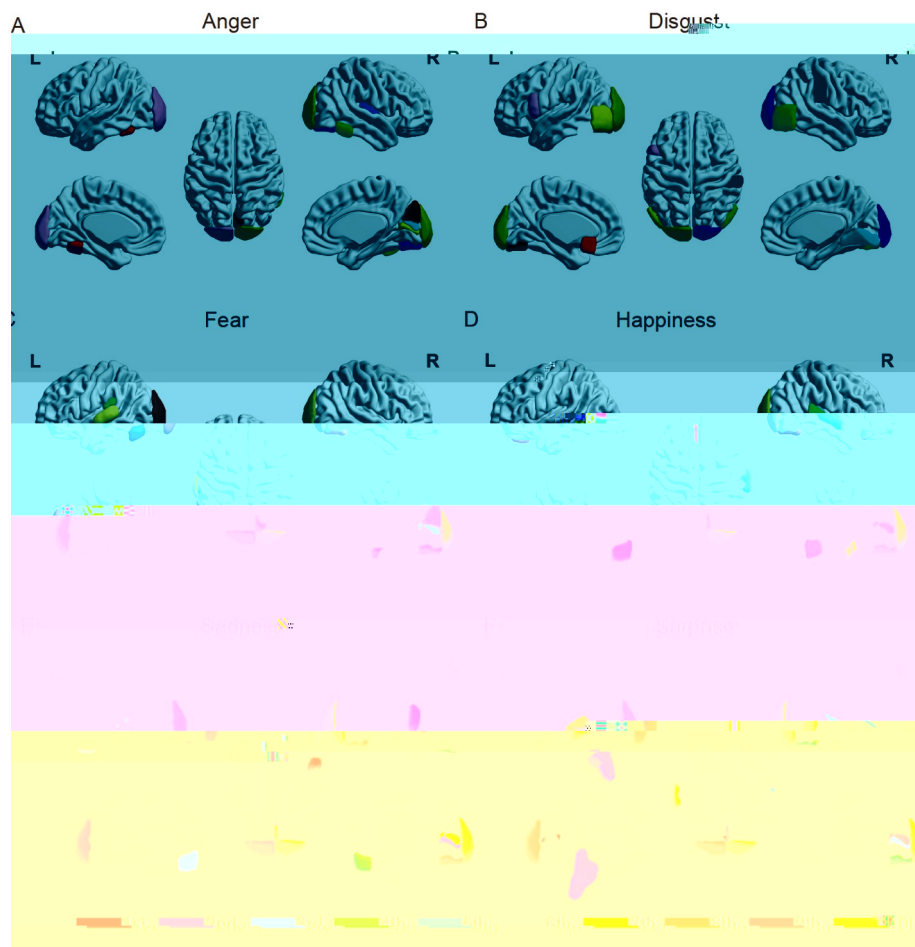

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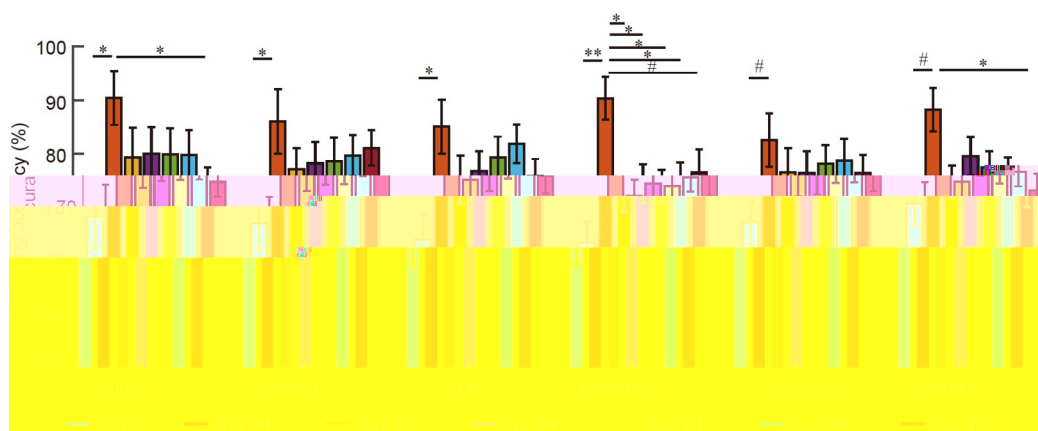


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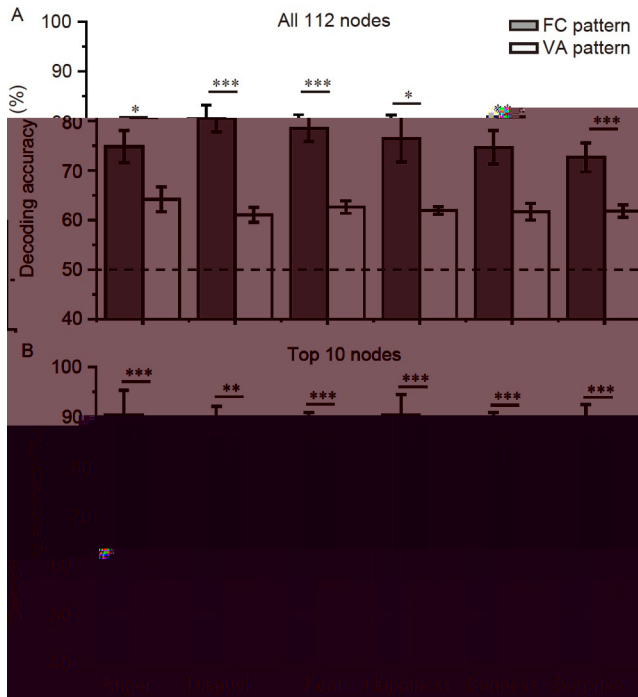




3



4



$$\rho_{i,j,p,w} = \frac{\sum_{s=S_p}^{s=E_p} (y_{i,s} - \tilde{u}_{i,w})(y_{j,s} - \tilde{u}_{j,w})}{\sqrt{\left(\sum_{s=S_p}^{s=E_p} (y_{i,s} - \tilde{u}_{i,w})^2\right)\left(\sum_{s=S_p}^{s=E_p} (y_{j,s} - \tilde{u}_{j,w})^2\right)}}, \quad (5)$$

$$\tilde{u}_{i,w}$$

$$i(x_t) = \sum_{k \neq c} p(k|x_t)p(c|x_t), \quad (10)$$

$$p(k|x_t)$$

$$X_t^k = (\rho_{i,j,p,w})_{i,j}, \quad (6)$$

$$X_t^k$$

$$x_t^k$$

$$\begin{aligned} x_t^k &= linearly\left\{lowhalf\left(X_t^k\right)\right\} \\ &= linearly\left\{\left(\rho_{i,j}\right)_{i,j(i>j)}\right\} \\ &= (\rho_{2,1}, \rho_{3,1}, \cdots, \rho_{112,1}, \rho_{3,2}, \cdots, \rho_{112,111}), \end{aligned} \quad (7)$$

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$$X^k = \{x_t^k | t = 1, \dots, n\}, X^k \subseteq \mathcal{Q}^k, \quad (8)$$

$$\overline{W} = (w_1, w_2, \dots, w_{112}), \quad (11)$$

$$\overline{W}$$

$$\begin{aligned} Train &= \{(x_l, k) | l = 1, \dots, n_1\}, x_l \in X^k, \\ Test &= \{(x_q, k) | q = 1, \dots, n_2\}, x_q \in X^k, \end{aligned} \quad (9)$$



