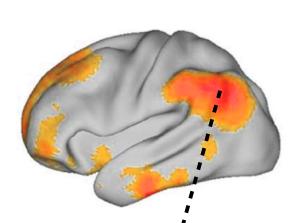
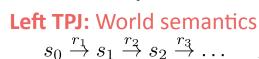
## **PMC:** Global monitoring and information integration

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$$\delta\theta_k \propto -\mathbb{E}_{(s,a,r,s')\sim\mathcal{D}}[(\tilde{Q}(s,a|\theta_k)-y_k)\nabla_{\theta_k}\tilde{Q}(s,a|\theta_k)]$$

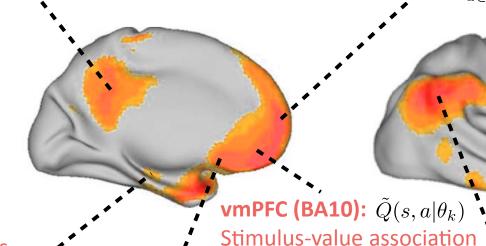
dmPFC (BA9): Action consideration  $a_k \leftarrow \operatorname{argmax}_{a \in \mathcal{A}} Q(s_k, a | \theta_k)$ 





Hippocampus: Memory,

space, and experience replay  $(s, a, r, s') \sim \mathcal{D}$ 



Ncl. Accumbens:

Reward / punishment signals

**Right TPJ:** Prediction error signaling  $Q(s, a|\theta_k) - y_k$