Corticohippocampal control of observational fear learning

MQ Mental Health Science Meeting 2019
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UCL (Advisor Essi Viding) & NIH (Advisor Andrew Holmes)
Observational fear learning (OFL) in rodents
Corticohippocampal control of fear learning

Dorsomedial Prefrontal Cortex (dmPFC)

Fear

Ventral Hippocampus (vHPC)

FEAR

optical fiber

vHPC

YFP

DAPI
Future directions in humans

- fMRI & computational modelling to investigate the circuit identified in mice
- Computational modelling: Does learning rate modulate hippocampal or dMPFC activity in humans?
- Individual differences: Is learning rate and brain activity modulated by individual differences in anxiety