METHODS
The two regions of interest in our study are the medial prefrontal cortex (mPFC) and the basolateral amygdala (BLA). We stimulated the mPFC which is responsible for complex behavior, decision making and logical reasoning. We recorded in the BLA which is responsible for autonomic responses, it is particularly known to act in emotional circumstances. A reasoning. We recorded in the BLA which is responsible for autonomic

The Medial Prefrontal Cortex-Basolateral Amygdala Connection

INTRODUCTION
The two regions of interest in our study are the medial prefrontal cortex (mPFC) and the basolateral amygdala (BLA). We stimulated the mPFC which is responsible for complex behavior, decision making and logical reasoning. We recorded in the BLA which is responsible for autonomic responses, it is particularly known to act in emotional circumstances. A reasoning. We recorded in the BLA which is responsible for autonomic

ABSTRACT
The two regions of interest in our study are the medial prefrontal cortex (mPFC) and the basolateral amygdala (BLA). We stimulated the mPFC which is responsible for complex behavior, decision making and logical reasoning. We recorded in the BLA which is responsible for autonomic responses, it is particularly known to act in emotional circumstances. A reasoning. We recorded in the BLA which is responsible for autonomic

METHODS
• 30 day old, Sprague Dawley males rats are subjects
• Ground (reference) electrodes, stimulating (bipolar) and recording (monopolar) electrodes are created
• Stereotaxic surgery and electrode implantation takes place
• Rats are left to recover and LTP recordings are taken

FUTURE PLANS
• With the connection between the mPFC and BLA established, we can begin control testing to see if this synapse shows LTP
• Experiments on how stress affects LTP at this synapse
• Neonatal (early life) stress: separation from mothers
• PFC is still developing during early life
• Constraint (adult) stress: place adult rat in confined space for period of time
• Anxiety Drugs: do they mediate the effects of stress?

ACKNOWLEDGEMENTS
Thank you to Professor Blaise for this guidance and support throughout the experimental process and to Jenny Nord for the care of the test animals.

REFERENCES

