



PARTICIPANTS NEEDED

Using transcranial focussed ultrasound to stimulate brain circuits underlying risk-reward behaviour

ABOUT THIS STUDY

In this study we will use transcranial focal ultrasound (FUS) to modulate activity in a brain region called the Nucleus Accumbens.

We will examine how this affects risk-reward behaviour using computer- and MRI-based tasks.

Receive \$220-280 for participation, plus an average task reward return of \$160.

DESIGN

- Participants will undergotwo experimental courses of FUS (sham and active)
- Participants will not know when they are receiving sham or active FUS

PARTICIPATION REQUIREMENTS

- Attend Herston Health Campus for 8 visits over 4 weeks (Monday, Tuesday and Wednesday mornings)
- Each visit lasting between 1-3 hours
- Undertaking risk-reward decision-making tasks
- MRI brain
- FUS sessions

SIGN UP TO PARTICIPATE

contact Alex Wilson alex.wilson@gimrberghofer.edu.au

SAFETY

- Focal Ultrasound (FUS) is a non-invasive method of brain stimulation
- FUS is well studied and has demonstrated to be safe in humans

ELIGIBILITY CRITERIA

- Aged 18 to 40 years
- · Capacity to give informed consent
- Able to attend visits to Herston Health Campus for the required time
- Never had a formal diagnosis of mental illness or neurological disorder

EXCLUSION CRITERIA

- Contraindications to MRI
- Medical implants or devices incompatible with MRI
- Claustrophobia
- Pregnancy