



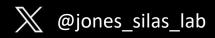
Spatial attention not affected by tACS: a registered report

Alex Jones & Jon Silas





www.jswlab.co.uk





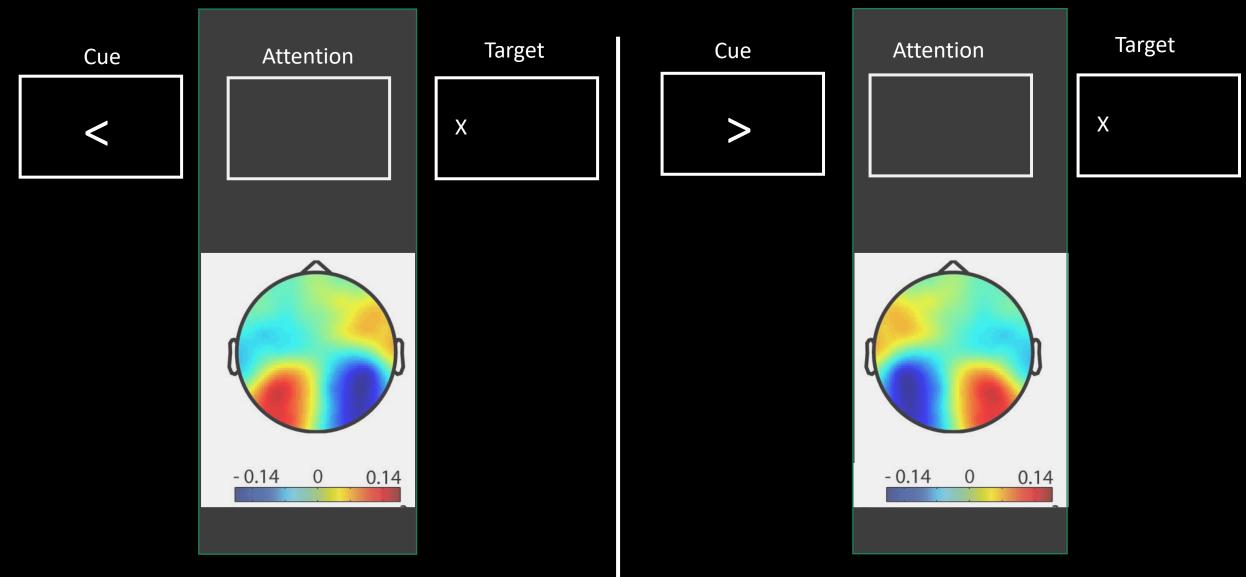
@JSW_lab@fediscience.org



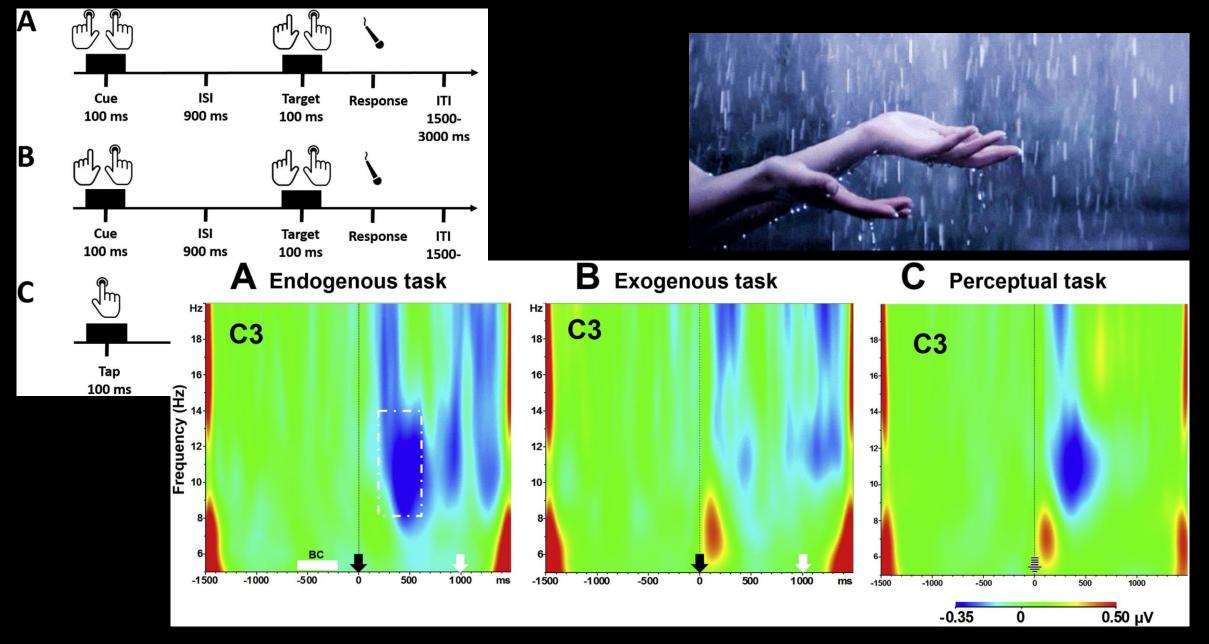




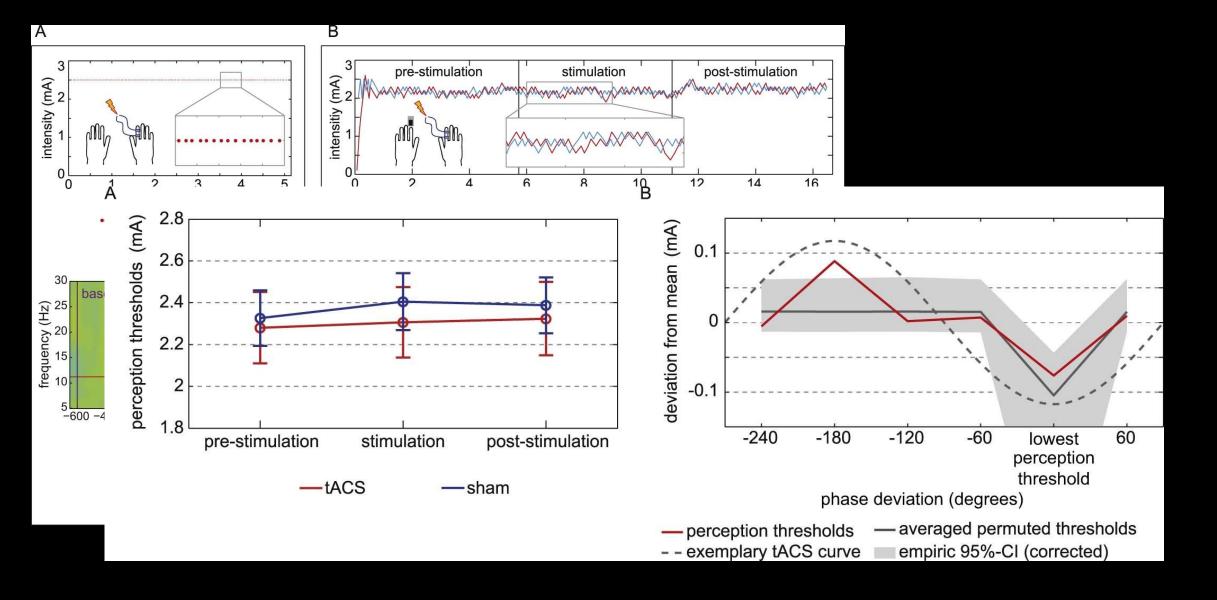
Alpha & attention



Van Diepen, Mazaheri & Geng (2016)



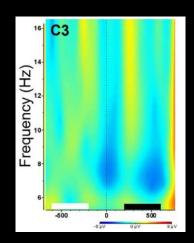
Silas, J., Tipple, A., & Jones, A. (2019). Event-related alpha desynchronization in touch—Comparing attention and perception. *Neuroscience Letters*.



Gundlach et al. (2016). Phasic modulation of human somatosensory perception by transcranially applied oscillating currents. Brain stimulation.

EEG: Individual alpha frequency

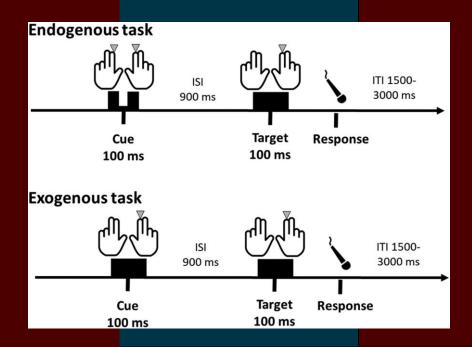


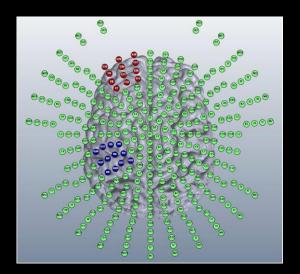


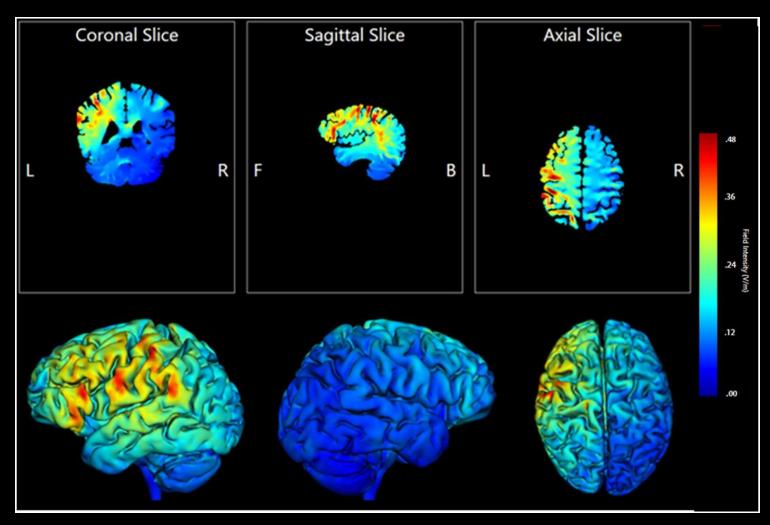
ALPHA BETA SHAM



tACS: Endogenous & Tactile Attention tACS: Endogenous & Tactile Attention tACS: Endogenous & Tactile Attention









Pre-registration

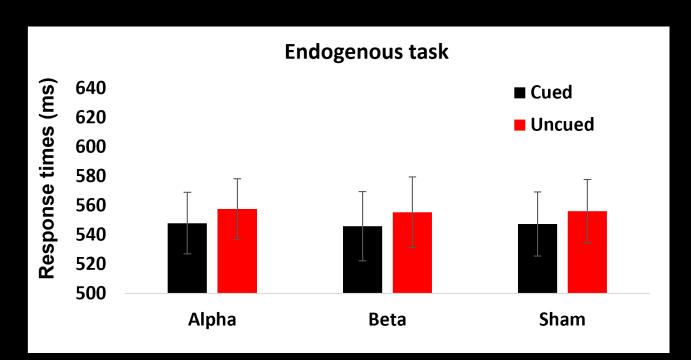
Sample size estimation

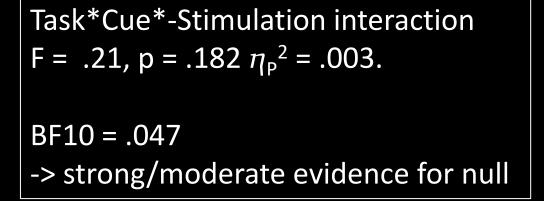
- Powering critical effect of interest = 43
- Powering smallest effect of interest = 56
- Modelling sample size based on pilot data = 77

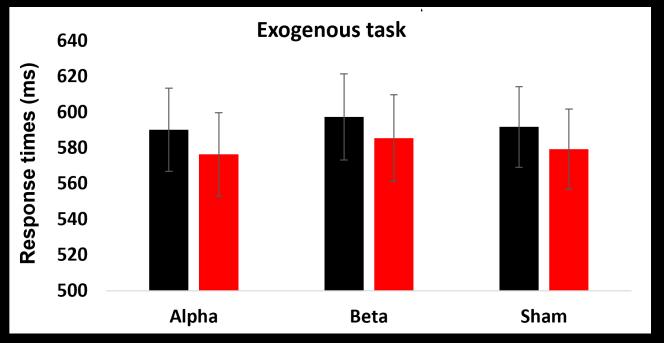


Design

- One sham
- One sham + one control

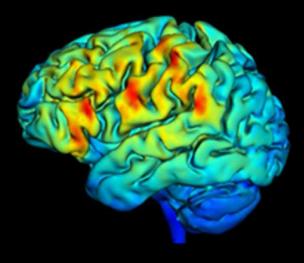


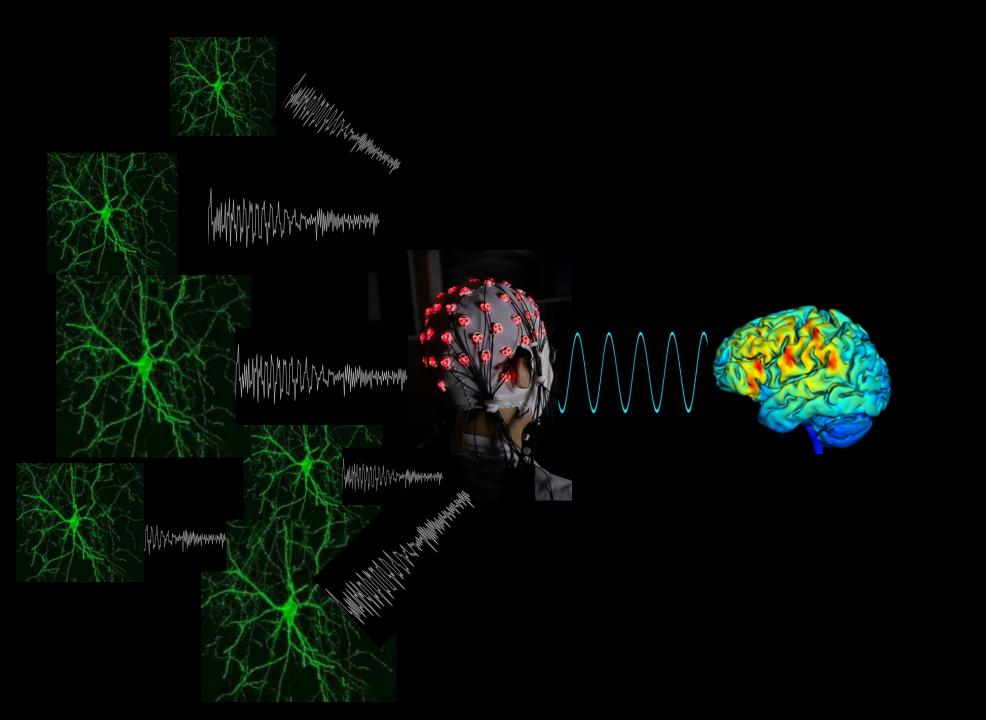












Thanks



Wayne Anderson



Kielan Yarrow



Jones, Silas & Ward

Lab





Scan for slides







