Individual differences in neuroanatomy predict neurostimulation related multitasking gains in older adults Kevin Jones, Theodore Zanto, Avery Ostrand, Wan-Yu Hsu, Adam Gazzaley Neuroscape, University of California, San Francisco

- (4-7 Hz) power and phase locking values (PLV).
- result in unreliable cognitive outcomes.



. Anguera et al, Nature (2013) 2. Hsu et al. Plos One (2017) 3. Hsu et al. Brain Stimulation (2019) 4. Realistic vOlumetric Approach to Simulate Transcranial Electric Stimulation, Huang et al, IEEE (2018)





Conclusions

Theta tACS paired with cognitive training improved cognitive control in healthy older adults.

Increases in theta power correlated with training gains.

Participants with the greatest tACS-induced EF change had the greatest training gains.

Matching frequency and dose of stimulation per individual may lead to more reliable cognitive outcomes.