

## Introduction

Training on working memory tasks improves performance on the task itself and results in changes in fMRI and DTI-based measures, whose effects localize to fronto-parietal brain regions - implicated in working memory and short-term memory (STM) performance (Olesen *et al.*, 2004; Dahlin *et al.*, 2008; Takeuchi *et al.*, 2010).

Does intensive training on a working memory task cause systematic changes in effective connectivity within fronto-parietal and extrastriate brain networks?



1 hr/day, 5 days/wk, 5 weeks

## Working memory training results in changes in cortical effective connectivity Bornali Kundu, David W. Sutterer, Scott A. Frieders, Bradley R. Postle Neuroscience Training Program, Departments of Psychology and Psychiatry, University of Wisconsin - Madison



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