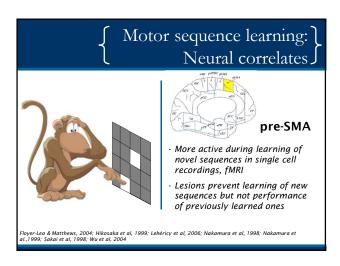
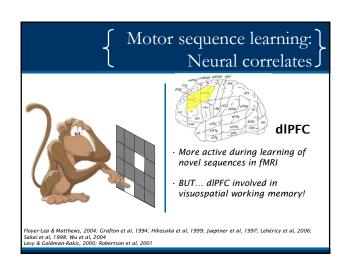
Neuroimaging evidence for changes in phonological and structural frame representations in subsyllabic speech motor sequence learning

Jenn Segawa, Jason Tourville & Frank Guenther
Boston University

{Motor sequence learning}





{Speech motor sequence learning}

- · Limitations of past studies
 - · Many purely behavioral results
 - Covert "production"
 - · Focus on novel word learning

Pavis et al, 2009; Rauschecker et al, 2008; Shtyrov et al, 2010; Smits-Bandstra & De Nil, 2009; Veroude et al, 2010

Paradigm: Learning

Practice over 2 days 60 repetitions per sequence

- 1. Overlearned
 - e.g. FREMP
 - Legal consonant clusters in English
- 2. Learned
 - e.g. FSEFK
 - Illegal consonant clusters in English

