Influence of musical training on language processing in children

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Objectives
Examine the influence of musical training on different levels of language processing:
1. Pre-attentive syllabic processing (MMN)
2. Speech segmentation (Statistical learning)
3. Speech in noise perception (being processed)
4. Speech comprehension (being processed)
5. Writing
- Study brain plasticity in children
-- Compare Normal Readers (NR) and dyslexics (Dys)

Method: Longitudinal approach (2yr)

Test - Training – ReTest procedure

T0 (pre-training; Sept-Oct 2008):
Standard Neuropsychology tests
Experiments 1 to 5 above
Based on results at T0 -> pseudo-random assignment to music or painting training

Training (Nov 08 – May 2009):

Results - Discussion

Pre-Attentive syllabic processing (MMN)

Speech segmentation

Handwriting

Main Publications