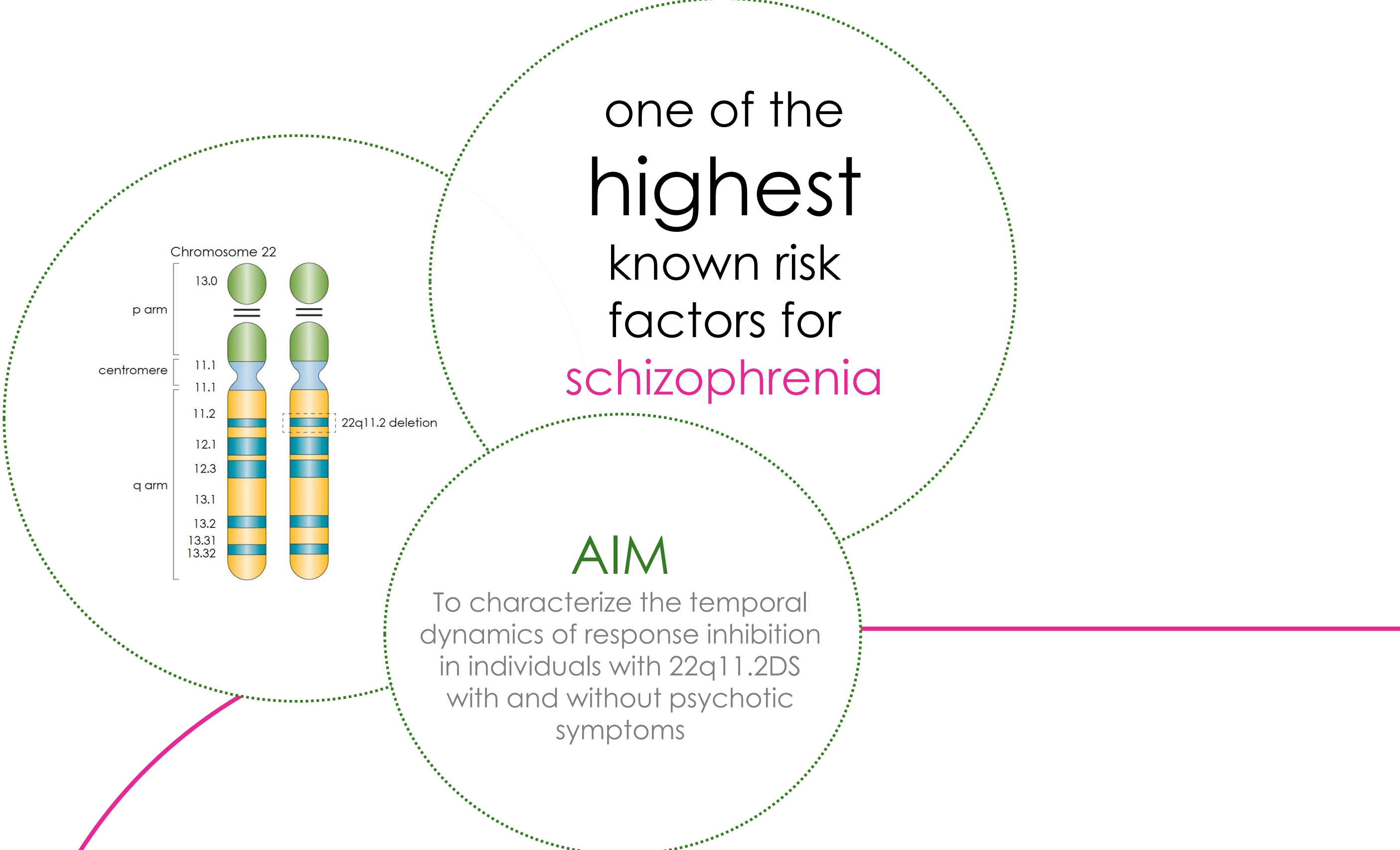


Atypical response inhibition in 22q11.2DS: Diminished error registration & awareness

Ana A Francisco¹, Douwe J Horsthuis¹, John J Foxe^{1,2,3}, and Sophie Molholm^{1,2,3}

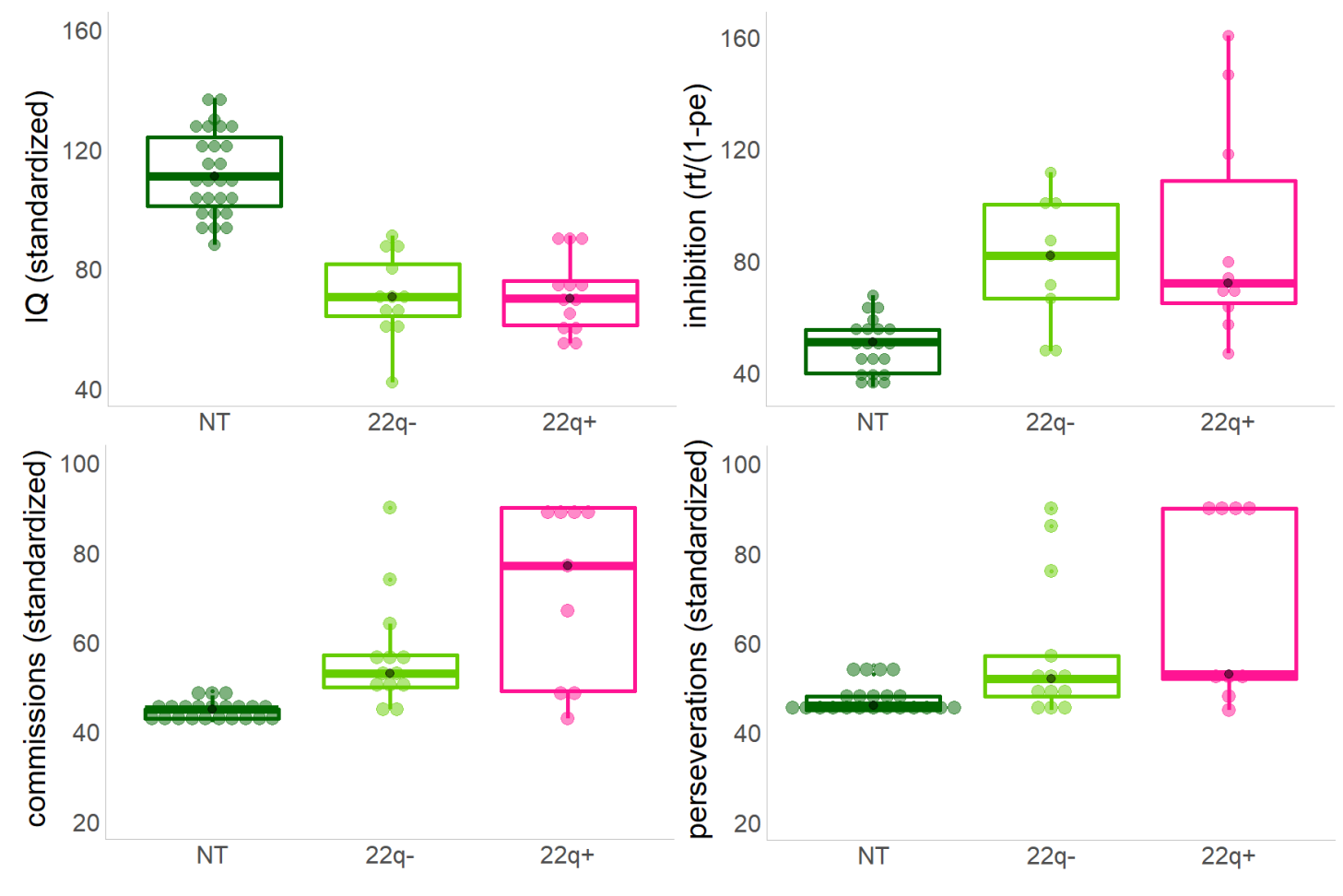
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³ Department of Neuroscience, The Ernest J. Del Monte Institute for Neuroscience, School of Medicine and Dentistry, University of Rochester



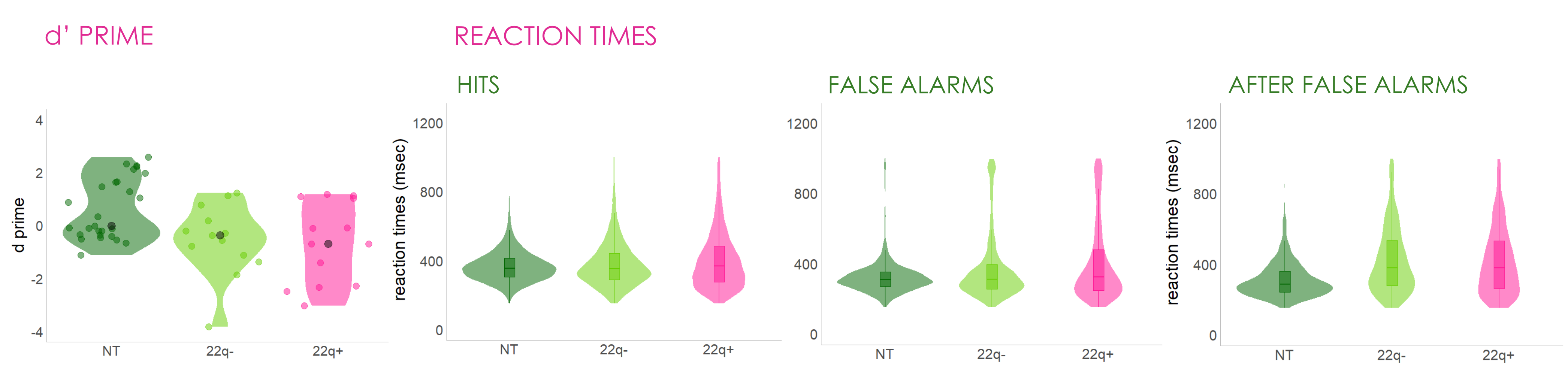
PARTICIPANTS
27 individuals with 22q11.2DS (14-35 years old)
13 without psychotic symptoms: **22q-**
14 with at least 1 psychotic symptom: **22q+**
27 age-matched neurotypical controls: **NT**

TASKS
WAIS/WISC (IQ)
D-KEFS: trail making, number-letter switching task ->
CPT:
A T X O
Go/no-go EEG task:
EEG DATA COLLECTION
BiosemiActiveTwo 64-channel electrode cap
Data recorded at 512 Hz, filtered between 0.1 & 45Hz, re-referenced to the average of all channels; artifact cutoff at 120uV.

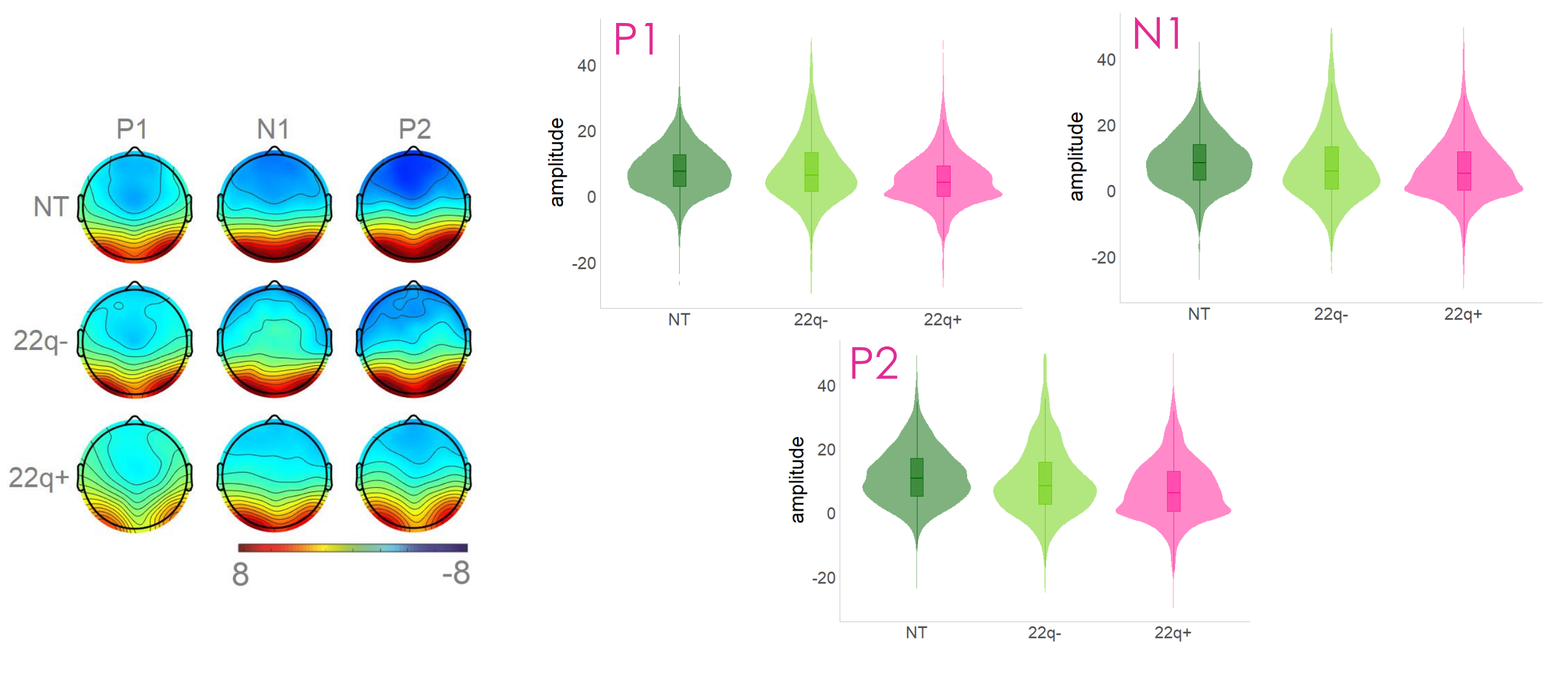
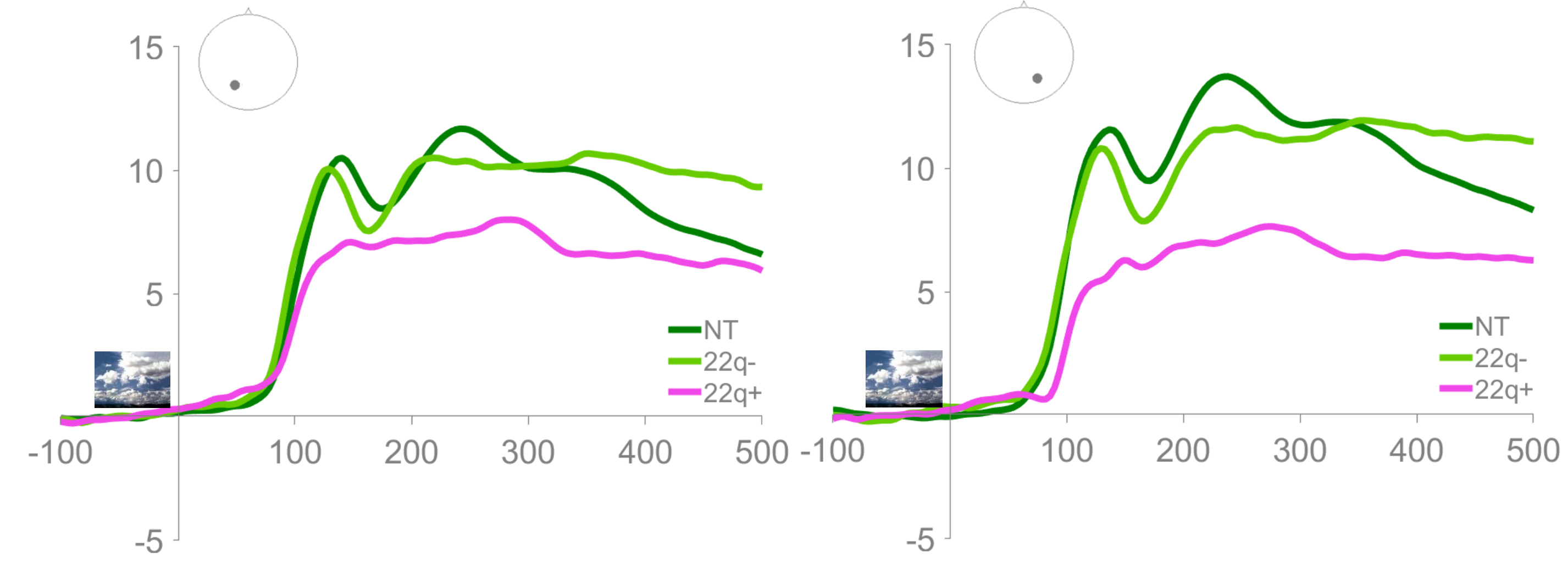
WAIS/WISC | D-KEFS | CPT



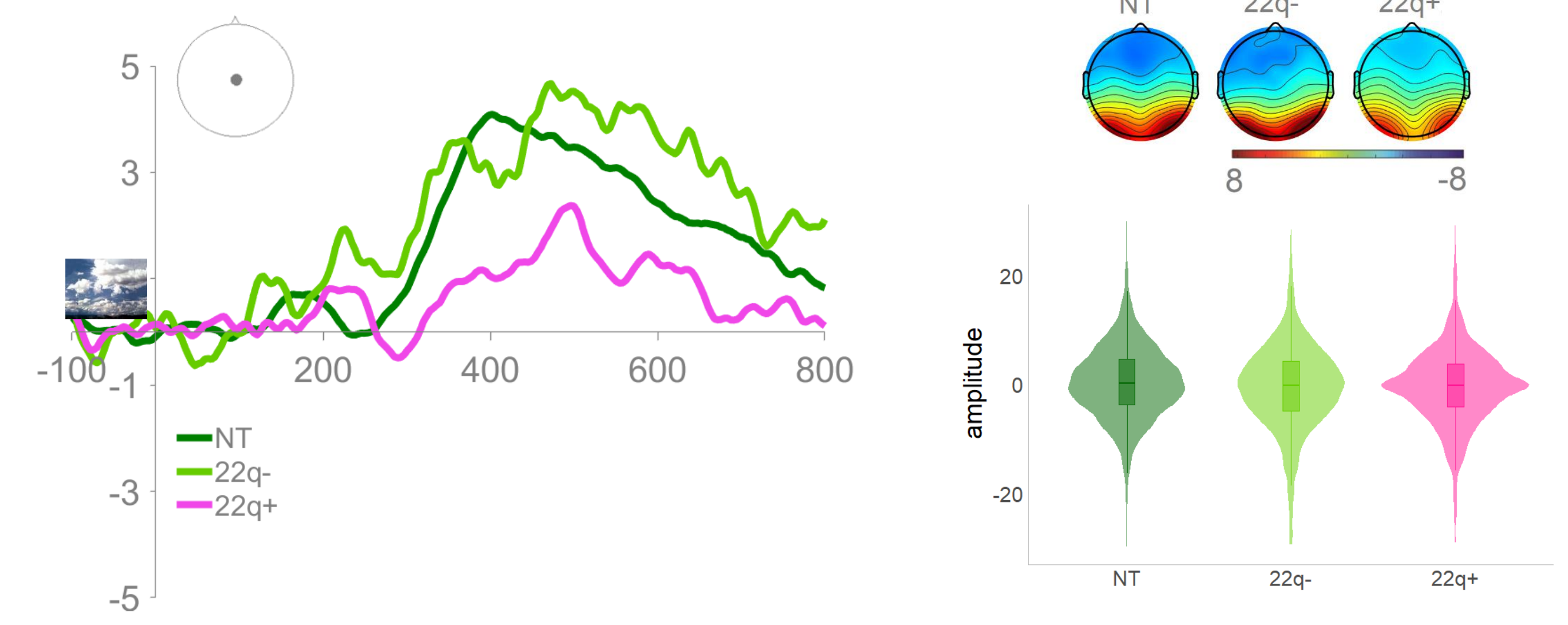
EEG: BEHAVIORAL RESULTS



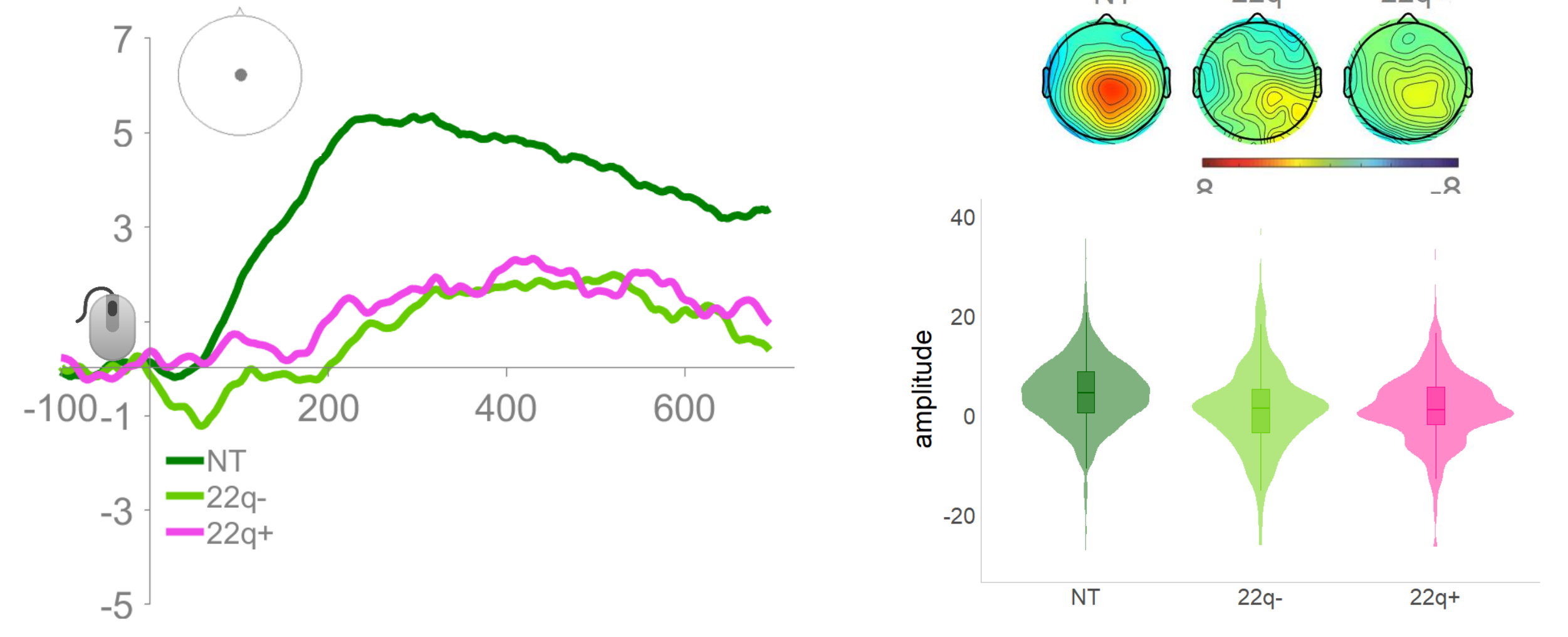
EEG: VISUAL-EVOKED POTENTIALS P1 & N1



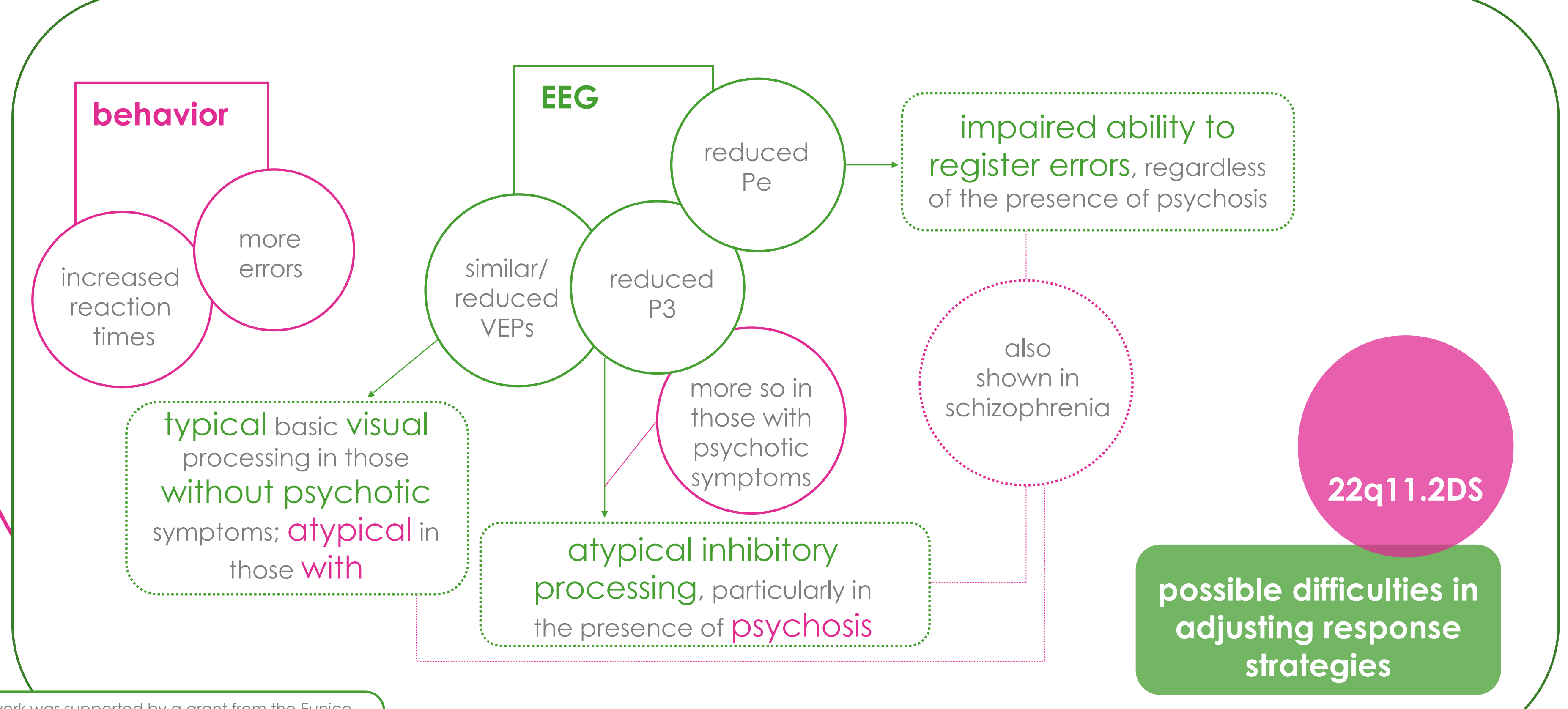
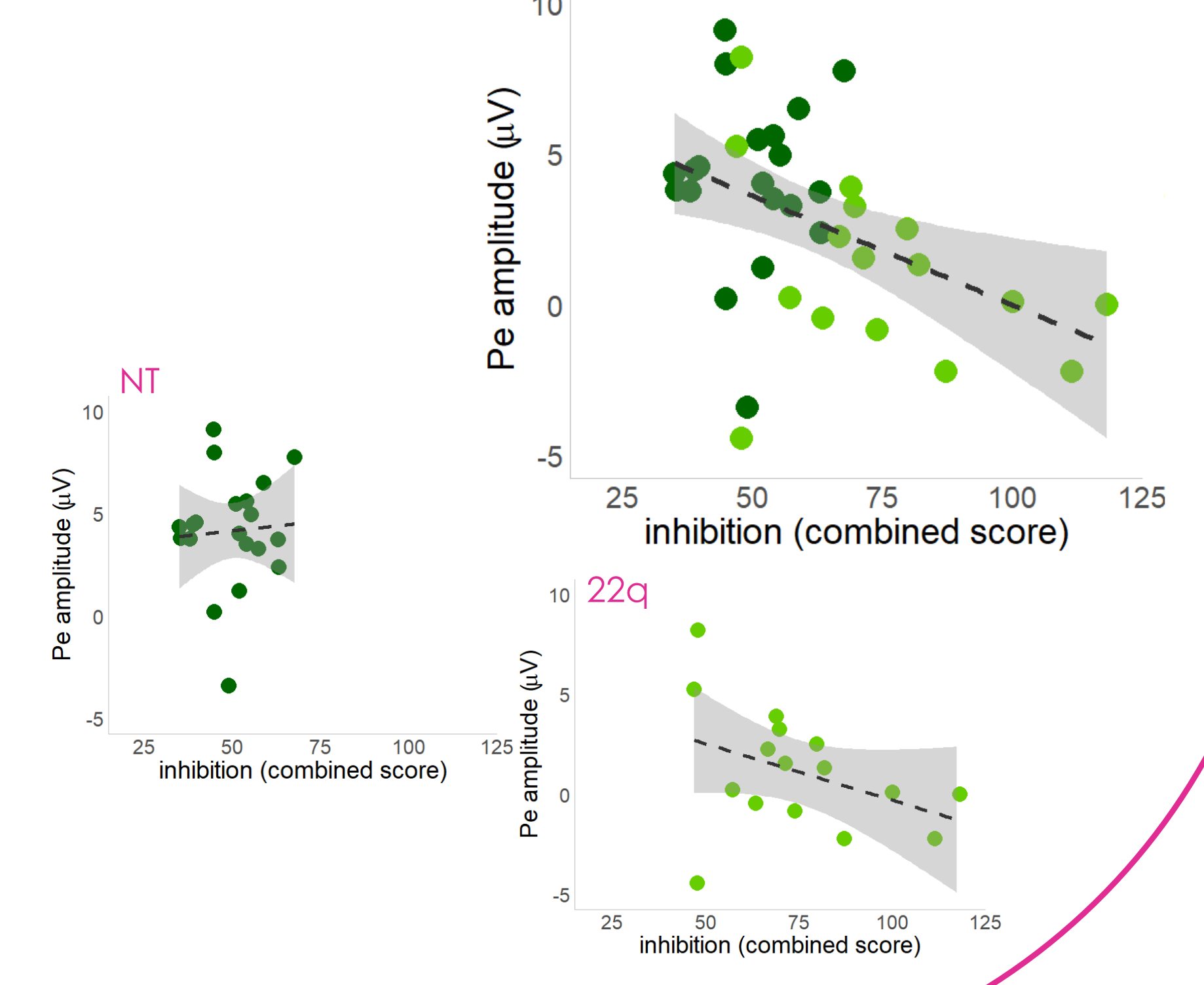
EEG: CORRECT REJECTIONS – HITS, P3



EEG: ERROR-RELATED ACTIVITY, Pe



CORRELATIONS: EEG – D-KEFS



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