Dynamics of Audiovisual Representations in the Adult Brain Using a Child-Friendly Stimulus Set

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Presentation Abstract Summary Multivariate approaches are rarely used to analyze EEG data acquired in children or infants. Here we replicate and extend several effects relative to the neural dynamics of object and/or spoken word perception in adults (N = 35) with a child-appropriate stimulus set of 4 animal and 4 body items. We consider the time-course of visual, auditory, and audiovisual stimulus decoding; associated activation patterns; generalization over time, and category-specific information. In particular, we find no evidence of higher accuracy for the cross-category (e.g. “dog” versus “hand”) than for the within-category (e.g. “foot” versus “hand”) classification of auditory items, i.e. a lack of cross-category advantage.

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