Decoding across sensory modalities reveals common supramodal signatures of conscious perception

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February 2020 in Proceedings of the National Academy of Sciences

"An outstanding goal in cognitive neuroscience is to understand the relationship between neurophysiological processes and conscious experiences. More or less implicitly, it is assumed that common supramodal processes may underlie conscious perception in different sensory modalities. We tested this idea directly using decoding analysis on brain activity following near-threshold stimulation, investigating common neural correlates of conscious perception between different sensory modalities. Our results across all tested sensory modalities revealed the specific dynamic of a supramodal brain network interestingly including task-unrelated primary sensory cortices. Our findings provide direct evidence of a common distributed activation pattern related to conscious access in different sensory modalities."