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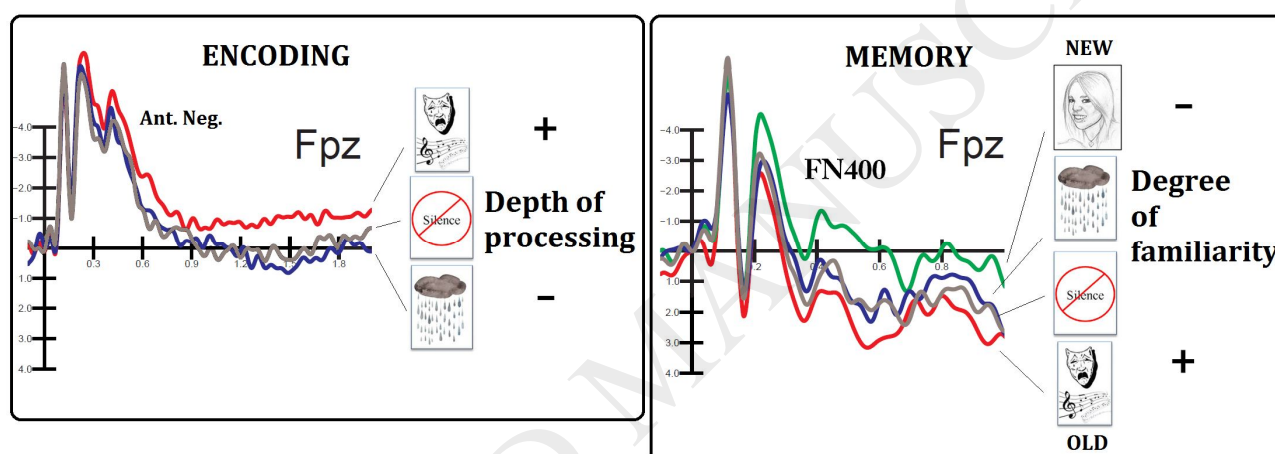
Auditory enhancement of visual memory encoding is driven by emotional content of the auditory material and mediated by superior frontal cortex

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### Graphical abstract



### Highlights

- The effect of environmental music and sounds vs. silence during face learning was investigated
- Music listening was the better auditory background as indexed by FN400 response
- Music affected face memory by stimulating Superior Temporal and medial frontal gyri according to swLORETA
- Enhanced memory was based on the integration and merging of affective audio-visual information
- Listening to touching music (e.g., Tchaikovsky's Pathetic Symphony) improved memory recollection of faces

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