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Bo-Cheng Kuo, Chun-Hui Li, Szu-Hung Lin, Sheng-Hung Hu, Yei-Yu Yeh



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**Top-down modulation of alpha power and pattern similarity for threatening
representations in visual short-term memory**

Bo-Cheng Kuo^{1*}, Chun-Hui Li^{1,2}, Szu-Hung Lin¹, Sheng-Hung Hu¹, Yei-Yu Yeh^{1*}

¹Department of Psychology, National Taiwan University, Taiwan

²Institute of Information Science, Academia Sinica, Taiwan

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***Corresponding Author:**

Bo-Cheng Kuo, Ph.D.

Department of Psychology

National Taiwan University

No. 1, Sec. 4, Roosevelt Road

10617, Taipei, Taiwan

TEL: +886-2-33663080

Email: bckuo@ntu.edu.tw

Abstract

Recent studies have shown that top-down attention biases task-relevant representations in visual short-term memory (VSTM). Accumulating evidence has also revealed the modulatory effects of emotional arousal on attentional processing. However, it remains unclear how top-down attention interacts with emotional memoranda in VSTM. In this study, we investigated the mechanisms of alpha oscillations and their spatiotemporal characteristics that underlie top-down attention to threatening representations during VSTM maintenance with

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