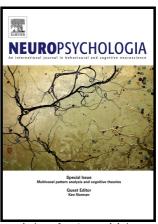
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### **ACCEPTED MANUSCRIPT**

# A multisensory perspective on object memory

Pawel J. Matusz<sup>1</sup>, Mark T. Wallace<sup>2-6</sup>, Micah M. Murray<sup>1,2,7,8,\*</sup>

#### **Abstract**

Traditional studies of memory and object recognition involved objects presented within a single sensory modality (i.e., purely visual or purely auditory objects). However, in naturalistic settings, objects are often evaluated and processed in a multisensory manner. This begets the question of how object representations that combine information from the different senses are created and utilised by memory functions. Here we review research that has demonstrated that a single multisensory exposure can influence memory for both visual and auditory objects. In an old/new object discrimination task, objects that were presented initially with a task-irrelevant stimulus in another sense were better remembered compared to stimuli presented alone, most notably when the two stimuli were semantically congruent. The brain discriminates between these two types of

<sup>&</sup>lt;sup>1</sup>The Laboratory for Investigative Neurophysiology (The LINE), Neuropsychology & Neurorehabilitation Service & Department of Radiology, University Hospital Center and University of Lausanne, Lausanne, Switzerland

<sup>&</sup>lt;sup>2</sup>Department of Hearing and Speech Sciences, Vanderbilt University Medical Center, Nashville, TN,

<sup>&</sup>lt;sup>3</sup>Department of Psychology, Vanderbilt University, Nashville, TN, USA

<sup>&</sup>lt;sup>4</sup>Kennedy Center for Research on Human Development, Vanderbilt University, Nashville, TN, USA

<sup>&</sup>lt;sup>5</sup>Department of Psychiatry, Vanderbilt University, Nashville, TN, USA

<sup>&</sup>lt;sup>6</sup>Vanderbilt Brain Institute, Vanderbilt University, Nashville, TN, USA

<sup>&</sup>lt;sup>7</sup>EEG Brain Mapping Core, Center for Biomedical Imaging (CIBM) of Lausanne and Geneva, Lausanne, Switzerland

<sup>&</sup>lt;sup>8</sup>Department of Ophthalmology, University of Lausanne, Jules-Gonin Eye Hospital, Lausanne, Switzerland

<sup>\*</sup>Corresponding Author. Micah.murray@chuv.ch

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