### Accepted Manuscript

Title: How do memory systems detect and respond to novelty?

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## ACCEPTED MANUSCRIPT

Title: How do memory systems detect and respond to novelty?

#### Authors:

Alex Kafkas and Daniela Montaldi

Memory Research Unit, School of Biological Sciences, Division of Neuroscience & Experimental

Psychology, University of Manchester, UK

**Special Issue Theme**: Hippocampal function in memory and cognition: Controversies and new perspectives

#### **Corresponding author:**

Dr. Alex Kafkas, Division of Neuroscience & Experimental Psychology, University of Manchester, Manchester, M13 9PL, Email: <u>alexandros.kafkas@manchester.ac.uk</u>, Tel.: +44(0)161 275 7341.

#### Highlights

- Novelty is heterogeneous; heterogeneity driven by type of information that is novel
- Familiarity and novelty signals originate from non-overlapping brain regions
- These distinct signals combine to produce a relative familiarity signal
- Anterior hippocampal novelty-detection triggers neurotransmitter-mediated encoding
- Encoding contextual novelty is dopaminergic/noradrenergic while absolute novelty is cholinergic

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