

## Serial Position Effects in Recognition Memory for Odors

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Five experiments examined recognition memory for sequentially presented odors. Participants were presented with a sequence of odors and then had to identify an odor from the list in a test probe containing 2 odors. All experiments demonstrated enhanced recognition of odors presented at the start and end of a series, compared with those presented in the middle of the series when a 3-s retention interval between list termination and test was used. In Experiments 2 and 3, when a 30-s or 60-s retention interval was used, participants performed at slightly lower levels, although the serial position function was similar to that obtained with the 3-s retention interval. These results were noted with a 5-item (Experiments 1 and 4), 7-item (Experiment 2), 6-item (Experiment 3), and 4-item (Experiment 5) list of odors. As the number of test trials increased, recognition performance decreased, indicating a strong role for olfactory fatigue or interference in these procedures. A verbal suppression task, used in Experiments 4 and 5, had little influence on serial-position-based performance.

There is a growing literature concerning memory for odors (e.g., Goldman & Seamon, 1992; Herz & Engen, 1996; Larsson & Baecckman, 1993; Murphy, Cain, Gilmore, & Skinner, 1991). However, there still exists a number of areas in which the results from tests of memory for olfactory stimuli appear either equivocal or dissimilar to the results obtained with stimuli from verbal, visual, and auditory modalities (see Richardson & Zucco, 1989; Schab, 1991, for reviews). Such differences have led some to conclude that memory for olfactory stimuli may be different from memory for other stimuli (see, e.g., Baddeley, 1976; Herz & Engen, 1996, for reviews). For example, the immediate recognition of odors is considerably worse than that noted in the equivalent visual or auditory tasks (Lawless, 1978). Also, there is evidence that once encoded, odors are forgotten only to a limited degree (Engen & Ross, 1973; Goldman & Seamon, 1992; Lawless & Cain, 1975; Rubin & Cain, 1984).

A further area in which there appears to be a difference between memory for olfactory stimuli and memory for stimuli from other modalities concerns the effect of serial presentation on subsequent recognition of items. Typically, when a sequence of verbal or visual material is presented, the initial and later items in the sequence are remembered better than those from the middle of the sequence (Baddeley, Papagno, & Andrade, 1993; Glanzer & Cunitz, 1966; Neath, 1993). These effects are termed *primacy* and *recency* effects, respectively. However, no evidence for the simultaneous

emergence of these effects has been found using olfactory stimuli: Some studies have found neither effect (Gabassi & Zanuttini, 1983; Lawless & Cain, 1975) and some studies have found just recency effects (White & Treisman, 1997).

Gabassi and Zanuttini (1983) sequentially presented 12 odors to their participants. They immediately tested recognition of those odors by presenting them along with 12 further odor stimuli. At test, participants had to recognize the stimuli from the original series and give a familiarity rating to all the stimuli. No evidence of primacy or recency effects was noted in this study. A similar lack of a standard serial position function was reported for a sequence of 11 odors by Lawless and Cain (1975), who used a considerably longer delay (11 days) between presentation and test than that used by Gabassi and Zanuttini (1983). White and Treisman (1997) presented their participants with a sequence of five odors. The subsequent recognition test involved the presentation of multiple probes following the list of odors; three probe stimuli were presented, and the participants had to respond by indicating whether the probes came from the preceding list. Using this procedure, White and Treisman found recency effects but no primacy effects for olfactory stimuli. However, a curious aspect of the data reported by White and Treisman was that no primacy effect was noted for their putatively nonverbal, olfactory stimuli. This contrasts with a wealth of data that suggest a primacy effect can be obtained for nonverbal items (e.g., Neath, 1993; Roberts & Kraemer, 1981).

Prior to concluding that no serial position effects can be generated for olfactory stimuli, a number of points need to be considered in relation to the above experiments. It has been shown that memory for olfactory stimuli is highly susceptible to proactive interference effects (Lawless, 1978), and that this effect is particularly pronounced when the interfering cues are other odors rather than visual or verbal material (cf. Asssett & Leslie, 1996; Engen, Kuusma, & Eimas, 1973; see Schab, 1991, for a review). In the experiment by Gabassi and Zanuttini (1983), participants were asked at test to discriminate between 24 olfactory

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# Memory For Odors

**VM Jensen**



## **Memory For Odors:**

## Unveiling the Power of Verbal Artistry: An Psychological Sojourn through **Memory For Odors**

In some sort of inundated with screens and the cacophony of instant connection, the profound energy and psychological resonance of verbal art often diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, situated within the lyrical pages of **Memory For Odors**, a charming perform of fictional beauty that pulses with organic emotions, lies an remarkable journey waiting to be embarked upon. Composed by a virtuoso wordsmith, that interesting opus books visitors on an emotional odyssey, lightly revealing the latent potential and profound influence embedded within the complicated web of language. Within the heart-wrenching expanse of this evocative evaluation, we will embark upon an introspective exploration of the book is main subjects, dissect its interesting writing type, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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