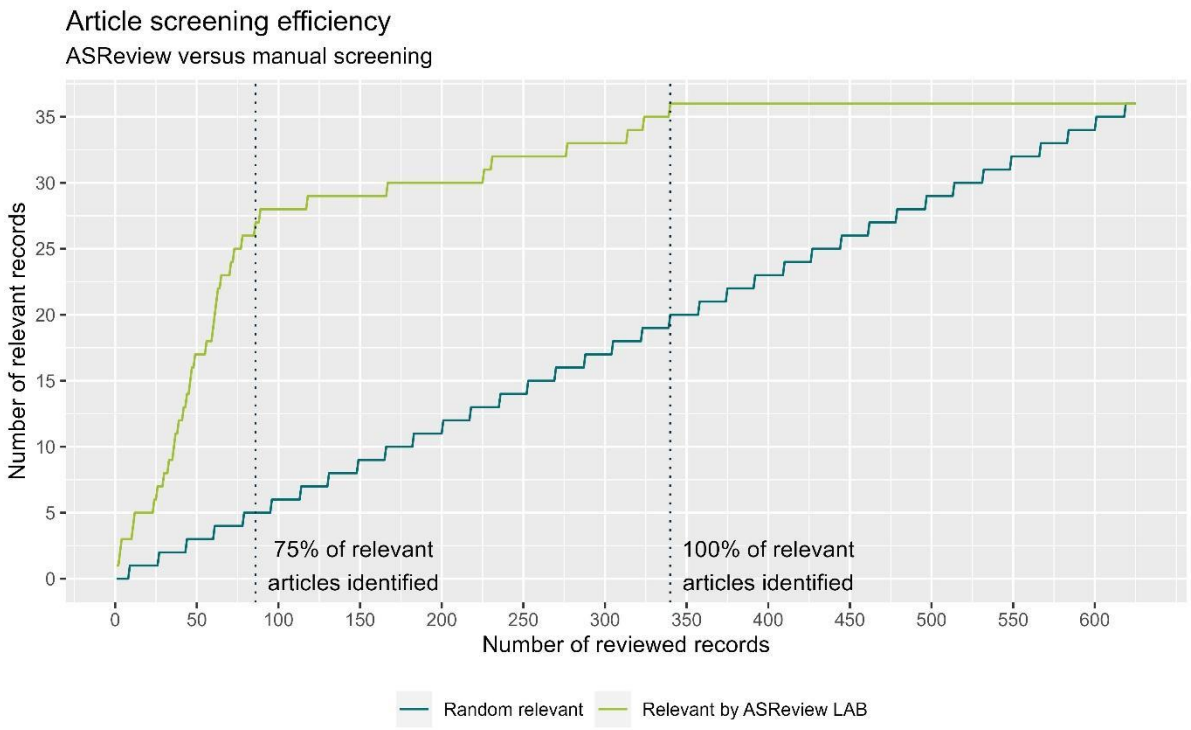
Supplement 2 to the manuscript

Olfactory spatial memory: A systematic review and meta-analysis

ASReview application is a free-source tool, created to make the article screening process faster and more efficient (Van de Schoot et al., 2020; van de Schoot et al., 2021). It uses an active learning cycle, where machine learning algorithms are employed to continuously rearrange the order of articles for screening based on the reviewer's responses to previous articles, so that the relevant articles are selected as early in the process as possible. Notably, the application does not make the decision about the inclusion, it merely rearranges the order of screening. After automated title and abstract screening, we extracted analytical information from ASReview. Over 75% of the relevant articles were identified after only 14% (n = 86) of the articles were screened, and 100% of relevant articles were identified after only 54% (n = 340) of the articles were screened (Figure 2). This outcome supports the idea that the ASReview application is suitable and accurate in making article-screening process more efficient and recommend using it in the future reviews and meta-analyses, with a reasonable stopping criterion (for comparisons of stopping criteria, see: Oude Wolcherink et al., 2023; Scherhag & Burgard, 2023).



Supplement 2 Figure 1. Analytics from the ASReview application. Number of articles marked by the reviewer as relevant when utilizing machine learning capacities of ASReview (light green / light gray) as compared to number of relevant records if the articles were screened in a random order (turquoise

/ dark gray). Dotted lines highlight the number of records reviewed in order to find 75% or 100% of the relevant records using ASReview screening

References:

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