**Identification of new studies via databases and registers**

**Previous studies**

Records identified from:

Web of Science (n = 2596)

Google Scholar (n = 980)

Records from three prior meta-analyses (n = 208)  
  
Known records from our research group (n = 2)

**Identification**

Duplicates removed (n = 887)

Total records identified   
(n = 3786)

Studies excluded based on abstract or title suggesting irrelevance (n = 2467)

Titles and abstracts screened   
(n = 2889)

**Screening**

Studies excluded after screening the full text (n = 256)

1) Not polyandry (n = 102)

2) No relevant fitness metrics

reported (n = 74)

3) Female mating history could not

be determined (n = 23)

4) Confound; males differed

across treatments (n = 19)

5) Number of matings did not

differ across treatments (n = 16)

6) Did not meet stage 1 criteria (n = 9)

7) No sample sizes reported (n = 7)

8) Matings interrupted (n = 5)

9) Duplicate (n = 1)

Full text screened for eligibility   
(n = 422)

**Included**

Studies included in meta-analysis (n = 166)

\*Consider, if feasible to do so, reporting the number of records identified from each database or register searched (rather than the total number across all databases/registers).

\*\*If automation tools were used, indicate how many records were excluded by a human and how many were excluded by automation tools.

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