

## Supplementary Materials

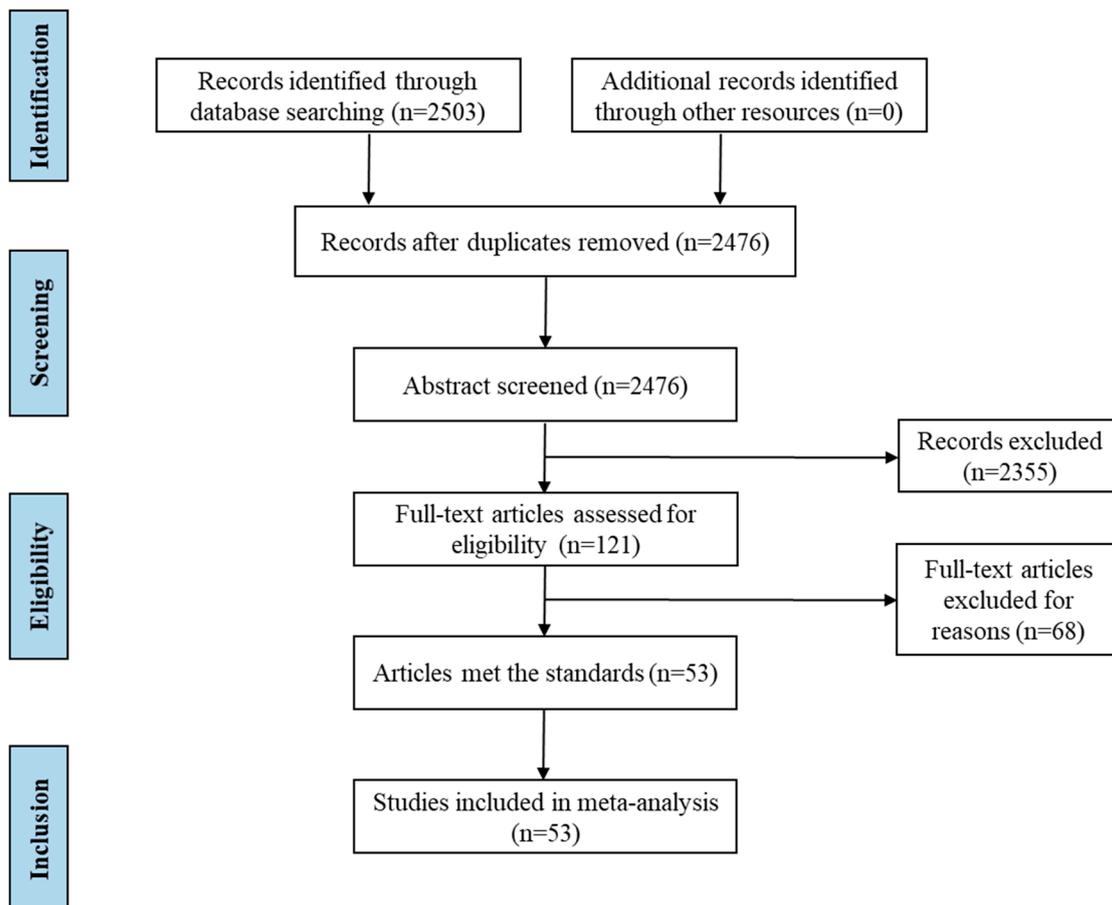
Figure S1. Flowchart of Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA). This flowchart summarized the sequence of information gathering and selection.

Figure S2. Normal quantile-quantile plots of the transplanted rice yield (TPR, a) and direct-seeded rice yield (DSR, b). Each dataset was tested for their normality using the Kolmogorov–Smirnov test. The quantile plots that formed the nearly straight lines and  $P > 0.05$  confirmed their normal distributions.

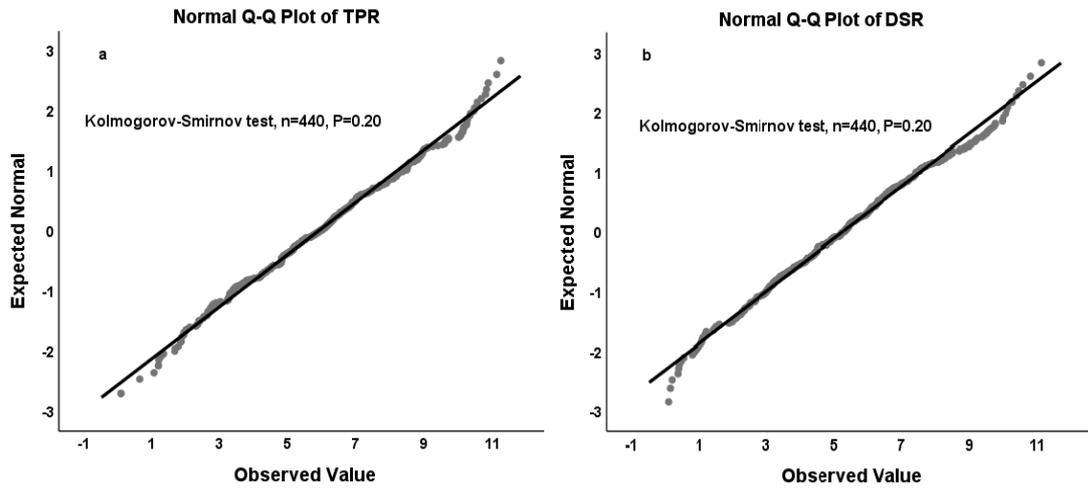
Figure S3. The correlation of actual individual effect size with imputed individual effect size in this meta-analysis. The points is the paired observations from incorporated studies.

Figure S4. The funnel plot to examine publication bias for comparing yield of direct seeded rice and transplanting rice. Blue and red diamond symbol in the bottom are the observed and imputed effect size, respectively. Publication bias is quantified by the difference of observed and imputed effect size according to the Trim and Fill procedure.

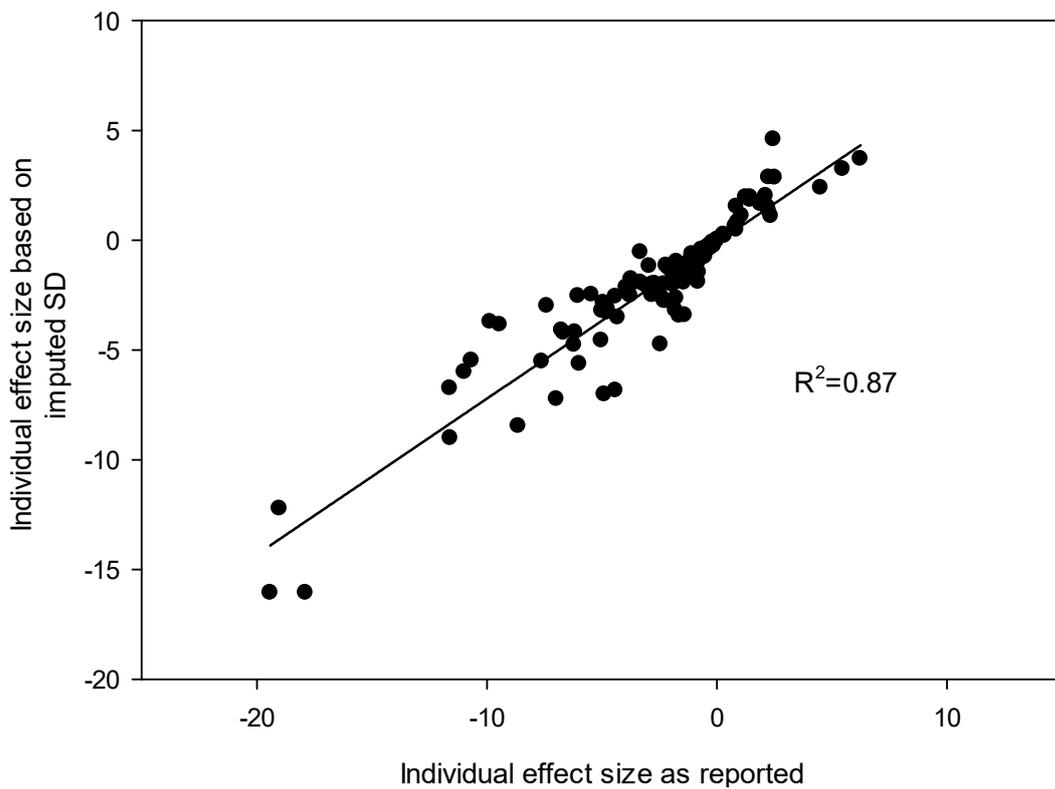
### Appendix S1. References included in meta-analysis.



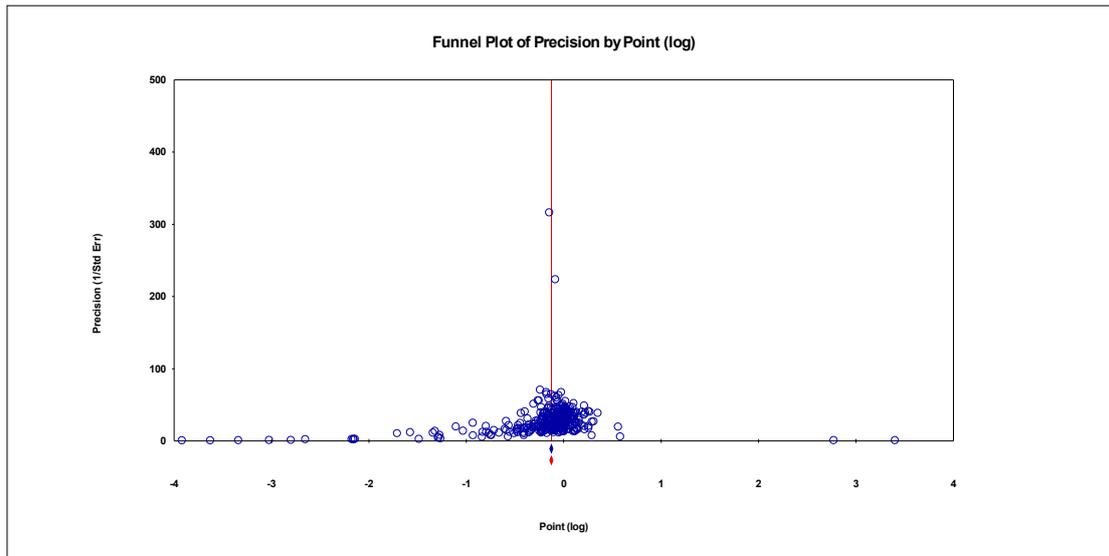
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#### Appendix S1. References included in meta-analysis.

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