**Text S1-S4**

**Text S1:** The keywords and phrases used for the literature search.

The keywords and phrases used for the literature search were, 1) ‘warming’ or ‘temperature’ or ‘heat\*’ or ‘greenhouse’; and, 2) ‘biomass’ or ‘plant’ or ‘allocation’ or ‘root’ or ‘leaf’ or ‘stem’ or ‘photosynthe\*’ or ‘growth’ or ‘aboveground’ or ‘belowground’ or ‘respiration’ or ‘nitrogen’ or ‘soil’ or ‘carbon’ or ‘microb\*’.

**Text S2:** The list of 322 papers from which the data were extracted for this meta-analysis.

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**Text S3:** PRISMA diagram to show how we ended up with 322 papers.

G:\Soil respiration\2 Warming\Zhou Warming\202005\Warming & Mycorrhizal fungi\20200921_Warming manuscript by Zhly\流程图.emf

**Text S4:** The Normal-test was used to test the frequency distribution of individual *RR* to warming.

The Normal-test was used to test the frequency distribution of individual *RR* to warming (Eq. 1, Systat Software Inc., CA, USA).

*y*=*α exp* (1)

where *x* is *RR* of a certain variable; *y* is the frequency (i.e., number of individual *RR*); *α* is a coefficient showing the expected number of *RR* values at x = μ; *μ* and σ are mean and variance of the frequency distributions of *RR*, respectively.

