**Table S3. Statistical functions**

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| **R function** | **Package** | **Use** | **Figure** |
| shapiro.test | *stats* | Shapiro-Wilk test for normality of a distribution. | NA |
| gofstat | *fitdistrplus* | Anderson-Darling statistic for fitting distributions. | NA |
| sen.adichie | *NSM3* | Sen-Adichie test of parallelism of regression lines. | NA |
| gvlma | *gvlma* | Global test of linear regression parametric models, to evaluate whether the errors were independent of each other, normally distributed around a mean of zero and of equal variance. | NA |
| mblm | *mblm* | Non-parametric linear regression based on Siegel repeated median estimates. | 1, 2, 3, Table 1 |
| confint.mblm | *mblm* | Confidence intervals of non-parametric linear regression based on Siegel repeated median estimates. | Table 1 |
| cor.test | *stats* | Kendall (τ) and Spearman (r) rank correlation coefficients and their p-value. | 1, 2, Table 1 |
| fitdist | *fitdistrplus* | Goodness-of-fit plots for fitted distributions. | S1 |
| lm | *stats* | Diagnostic plots of simple linear regression models. | S2 |
| res, predict, forest | *metafor* | Meta-analysis to calculate effect sizes based on correlations and generate the corresponding forest plots. | 2 |