Supplemental Materials: Statistical Analyses

To analyze the data displayed in Figures 1 and 2, we conducted two χ^2 tests. The first test was a 3 (year: 2005/2010/2015) x 2 (online: yes/no) design, and was significant $\chi^2(2) = 149.05$, $p < .001$, $\phi = .44$. The second test was a 3 (year: 2005/2010/2015) x 2 (MTurk: yes/no) design, and was also significant, $\chi^2(2) = 165.33$, $p < .001$, $\phi = .46$. Overall, these findings provide additional support for the claim that the proportion of online studies have increased over time.

For the data presented in Figure 3, we conducted a 3 (participant source: college, MTurk, other) x 4 (estimated duration: < 15 min, 15-29 min, 30-59 min, > 59 min) χ^2 test. It was significant, $\chi^2(6) = 97.46$, $p < .001$, $\phi = .36$.

We did a similar analysis on the Figure 4 data, which broke down the frequency of studies by year and duration. It also yielded a significant effect, $\chi^2(6) = 34.26$, $p < .001$, $\phi = .21$. For Figure 5 data, which removed the MTurk studies from the Figure 4 data, the same analysis yielded a marginally significant test, $\chi^2(6) = 12.25$, $p = .057$, $\phi = .14$.

For data from Figure 6 we conducted a 3 (year) x 3 (journal) ANOVA with number of studies per article as the dependent variable. This model was significant, $F(8, 232) = 5.21$, $p < .001$, $R^2 = .152$. There were significant main effects of year, $F(2, 232) = 6.47$, $p = .002$, partial eta^2 = .053, and journal, $F(2, 232) = 11.67$, $p < .001$, partial eta^2 = .091. However, the interaction term was not significant, $F(4, 232) = .97$, $p = .422$, partial eta^2 = .016. Bonferroni-corrected post-hoc comparisons for year revealed a non-significant increase from 2005 to 2010 ($p = .706$), but significant increases from 2010 to 2015 ($p = .036$) and 2005 to 2015 ($p = .001$). The means (and standard errors) for the three years were: 2005 = 2.58 (0.21), 2010 = 2.90 (0.21), 2015 = 3.62 (0.21). The same type of comparisons revealed a nonsignificant difference between JESP and PSPB ($p = 1.00$), but significant differences between JPSP and JESP ($p < .001$) and JPSP and

PSPB (p = .001). The means (and standard errors) for the three journals were: JESP = 2.63 (0.23), PSPB = 2.70 (0.23), and JPSP = 3.78 (0.16).