# Supplementary File for Review

# R code for simulation study

simulation <- function() {  
   
 # simulate publishability of results from econo\_p  
 # set an inital p value  
 p\_economical <- 1  
   
 # generate random values for p, and stop when this value is < .05  
 while (p\_economical >= .05) {  
 p\_economical <- round(runif(1), 3)  
 }  
   
 # decision making  
 if(p\_economical < 0.05) {  
 publishable\_p\_economical = TRUE  
 } else {  
 publishable\_p\_economical = FALSE  
 }  
   
 # simulation publishability of results from tradition (hacked) p values   
 # p value set to upper bound of observable hacked p values  
 p = 0.049  
   
 # decision making  
 if(p < 0.05) {  
 publishable\_p = TRUE  
 } else {  
 publishable\_p = FALSE  
 }

# compare decisions made on the basis of hacked p values vs p economical  
 return(publishable\_p\_economical == publishable\_p)  
  
}  
  
# proportion of 10,000 simulated cases where conclusions agree  
mean(replicate(10000, simulation()))

## [1] 1