Supplementary information to: Retire statistical significance Valentin Amrhein *et al*.

Supplementary text to a Comment published in Nature $\bf 567$, 305-307 (2019) https://doi.org/10.1038/d41586-019-00857-9

51% (402/791) articles from five journals erroneously interpret statistically non-significant results as indicating "no effect"

| Survey* | Most recent time period** | Number of articles with errors | Number of articles considered*** | Error criterion |
|---|---------------------------------|---|----------------------------------|--|
| Schatz P, Jay KA, McComb J, McLaughlin JR (2005). Misuse of statistical tests in <i>Archives of Clinical Neuropsychology</i> publications. <i>Archives of Clinical Neuropsychology</i> 20 :1053-1059 | 2001-2004 | 81 (Page 1057) | 170 (Page 1057) | "using statistical tests to confirm the null, that there is no difference between groups." (Page 1054) |
| Fidler F, Burgman MA, Cumming G, Buttrose R, Thomason N. (2006). Impact of criticism of null-hypothesis significance testing on statistical reporting practices in conservation biology. <i>Conservation Biology</i> 20:1539-1544 | 2005 | 42 (Table 1) | 100 (Table 1) | "statistically nonsignificant results were interpreted as evidence of 'no effect' or 'no relationship' " (Page 1542) |
| Hoekstra R, Finch S, Kiers HAL, Johnson A. (2006). Probability as certainty: dichotomous thinking and the misuse of <i>p</i> values. <i>Psychonomic Bulletin & Review</i> 13 :1033-1037 | 2002-2004 | 145 (Table 1; 60% of 242) | 259 (Table 1) | "Phrases such as 'there is no effect,' 'there was no evidence for' (combined with an effect in the expected direction), 'the nonexistence of the effect,' 'no effect was found,' 'are equally affected,' 'there was no main effect,' 'A and B did not differ,' or 'the significance test reveals that there is no difference' " (Pages 1034-1035) |
| Bernardi F, Chakhaia L, Leopold L. (2017). 'Sing me a song with social significance': the (mis)use of statistical significance testing in European sociological research. European Sociological Review 33:1-15 | 2010-2014 | 134 (Table 2; 100%-49% = 51% of 262) | 262 (Table 1) | "authors mechanically equate a statistically insignificant effect with a zero effect." (Page 2) |

^{*} All four surveys examined the journal in which they were published. Fidler et al. 2006 also examined *Biological Conservation*.

^{**} All four surveys compared two or more distinct time periods; we provide data for only the most recent time period.

^{***} Schatz et al. 2005 provide only the total number of articles considered. Fidler et al. 2006 and Hoekstra et al. 2006 provide the total number of articles considered and the number of articles that contained a statistically non-significant result and were thus eligible to make the error. Bernardi et al. 2017 provide only the total number of "articles qualifying for the review." For consistency across all four surveys, we use the total number of articles considered as the denominator when computing the percentage making an error; this is a conservatively low estimate of the proportion of articles that misinterpret statistically non-significant results because it includes articles ineligible to make the error (i.e., because they do not contain a statistically non-significant result) in the denominator.

Supplementary information to: Retire statistical significance (Comment in Nature 567, 305–307; 2019)

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854 scientists from 52 countries are signatories to "Retire statistical significance"

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