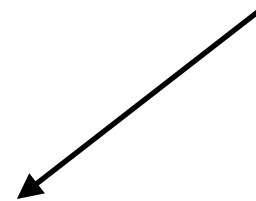


- Button et al. (2013), *Nature Reviews Neuroscience*, small sample size undermines the reliability of neuroscience. Nord et al., (2017), *Journal of Neuroscience*, highlight wide heterogeneity in power in neuroscience studies.



**Table 2. Median, maximum, and minimum power subdivided by study type**

Group	Median power (%)	Minimum power (%)	Maximum power (%)	2.5 <sup>th</sup> and 97.5 <sup>th</sup> percentile (based on raw data)	95% HDI (based on GMMs)	Total N
All studies	23	0.05	1	0.05–1.00	0.00–0.72, 0.80–1.00	730
All studies excluding null	30	0.05	1	0.05–1.00	0.01–0.73, 0.79–1.00	638
Genetic	11	0.05	1	0.05–0.94	0.00–0.44, 0.63–0.93	234
Treatment	20	0.05	1	0.05–1.00	0.00–0.65, 0.91–1.00	145
Psychology	50	0.07	1	0.07–1.00	0.02–0.24, 0.28–1.00	198
Imaging	32	0.11	1	0.11–1.00	0.03–0.54, 0.71–1.00	65
Neurochemistry	47	0.07	1	0.07–1.00	0.02–0.79, 0.92–1.00	50
Miscellaneous	57	0.11	1	0.11–1.00	0.09–1.00	38

*Is there not just “good science” and “bad science”?*

Without realising it, good scientists have been engaging in questionable research practices (QRPs)...