

**MMU talk by Chris Chambers:
Thursday 6th December, 16:00-17:00, BR3.31
(Brooks building).**

**“Registered Reports, five years on: A vaccine
against bias in research and publishing.”**



Brian Nosek @BrianNosek · 19h

Many Labs 2: 28 findings, 60+ samples, ~7000 participants each study, 186 authors, 36 nations.

Successfully replicated 14 of 28 psyarxiv.com/9654g



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ML2 minimized boring reasons for failure. First, using original materials & Registered Reports cos.io/rr all 28 replications met expert reviewed quality control standards. Failure to replicate not easily dismissed as replication incompetence. psyarxiv.com/9654g



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Second, the total ML2 replication median sample size ($n = 7157$) was 64x original median sample size ($n = 112$). If there was an effect to detect, even a much smaller one, we would detect it. Ultimate estimates have very high precision. psyarxiv.com/9654g



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Third, each original finding was replicated in >60 samples with labs from 36 nations and territories taking part. If the effect was easy to detect in some samples and not others, ML2 would find evidence for that. psyarxiv.com/9654g



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Fourth, some original authors offered a priori hypotheses of moderating influences based on sample, task order, or other design features. Identifying them a priori provided an opportunity to test them with confidence.



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The top line results of 50% overall replication success rate and effect sizes less than 1/2 of original studies are consistent with prior replication studies. psyarxiv.com/9654g