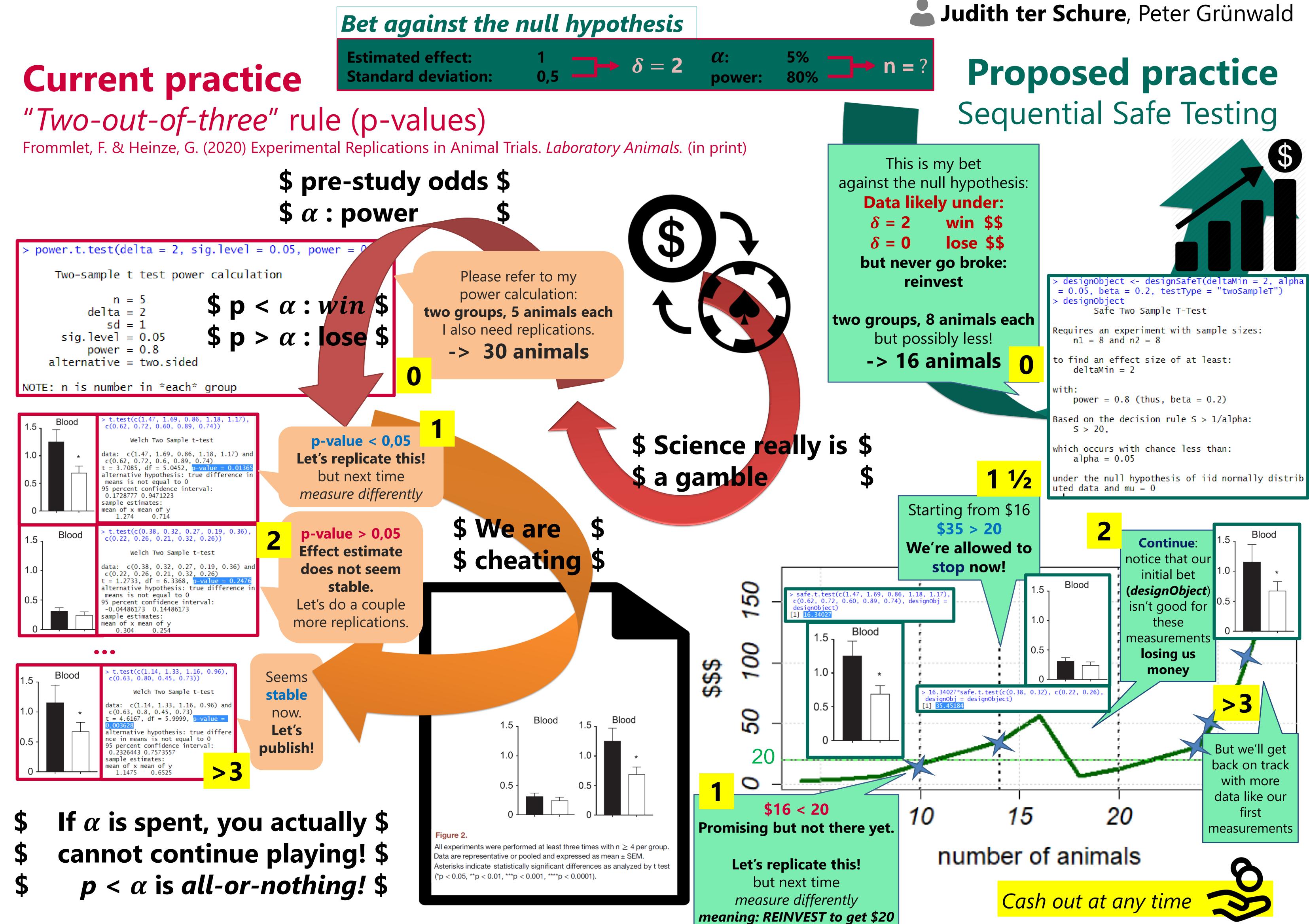
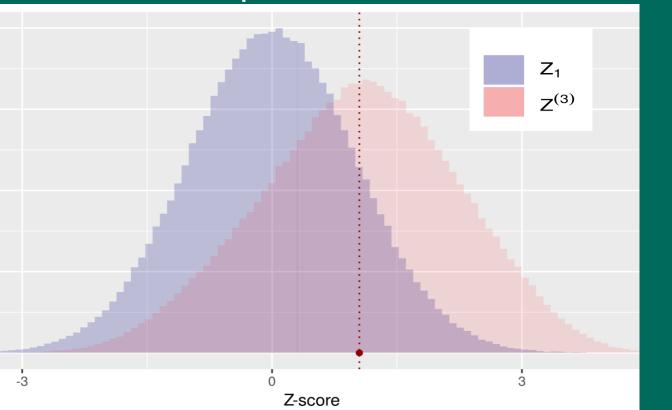
Beyond all-or-nothing Statistics

Reduce Research Waste and improve 3Rs (include less animals)



Accumulation Bias (see poster P-054)



$p < \alpha$, current practice

- **Representative experiment in publication?**
 - \rightarrow **Publication Bias**
- **Pool in a meta-analysis?**
 - \rightarrow NO: Accumulation Bias
- **3Rs?**
 - \rightarrow at least 30 animals

\$\$ >
$$\frac{1}{\alpha}$$
, SAFE TESTS, proposed practice

• Strong on heterogeneous experiments:

Compare casino $\delta = 0$ hypothesis; as heterogeneous as:

- **Pool in a meta-analysis?**
- → Yes! Safe Meta-Analysis
- **3Rs?**
 - \rightarrow on average 15 animals





Take a picture to download (1) the R package for Safe Testing (2) the paper on Accumulation Bias

