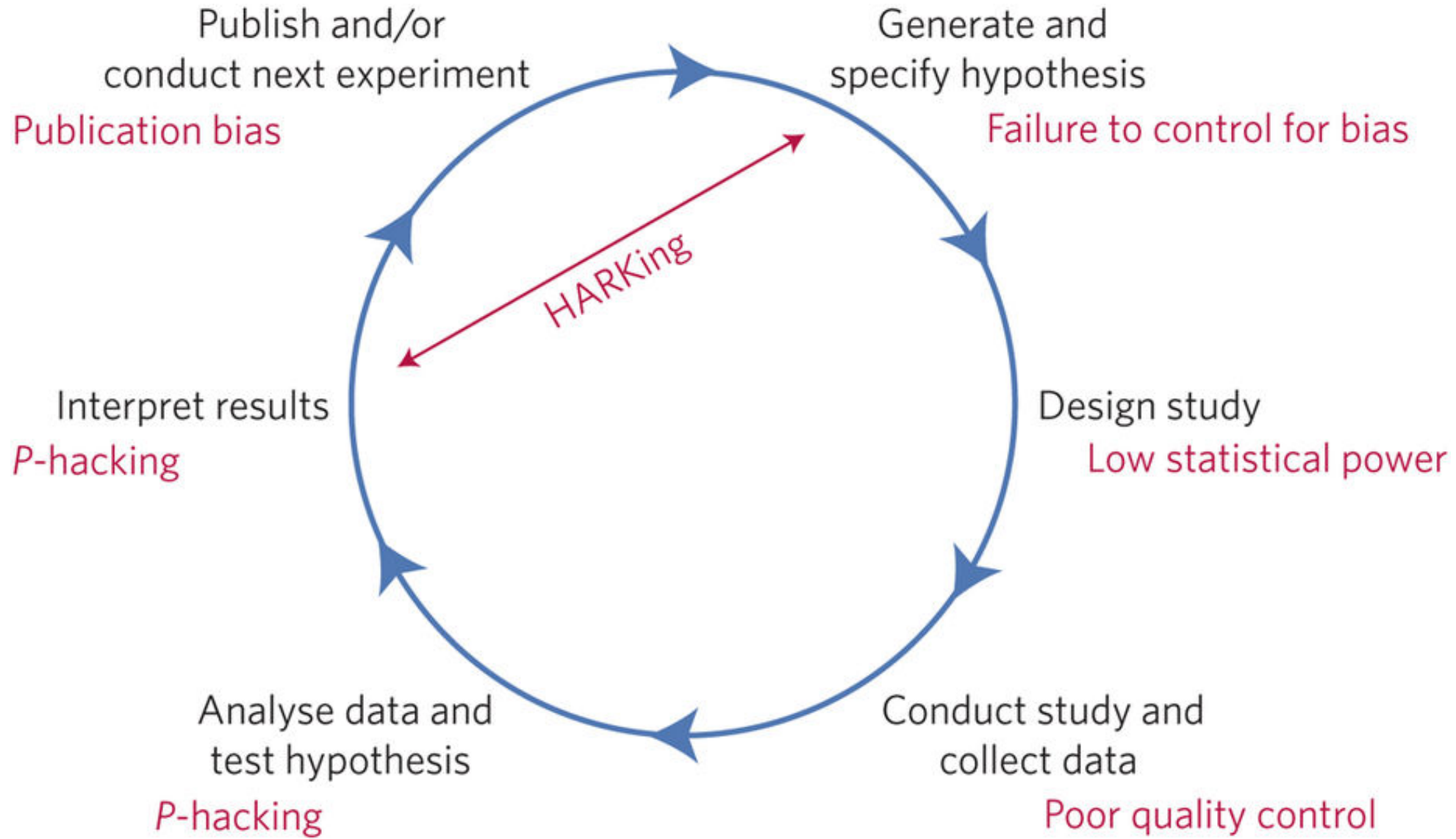


Educational interventions  
support adoption of  
reproducible research  
practices



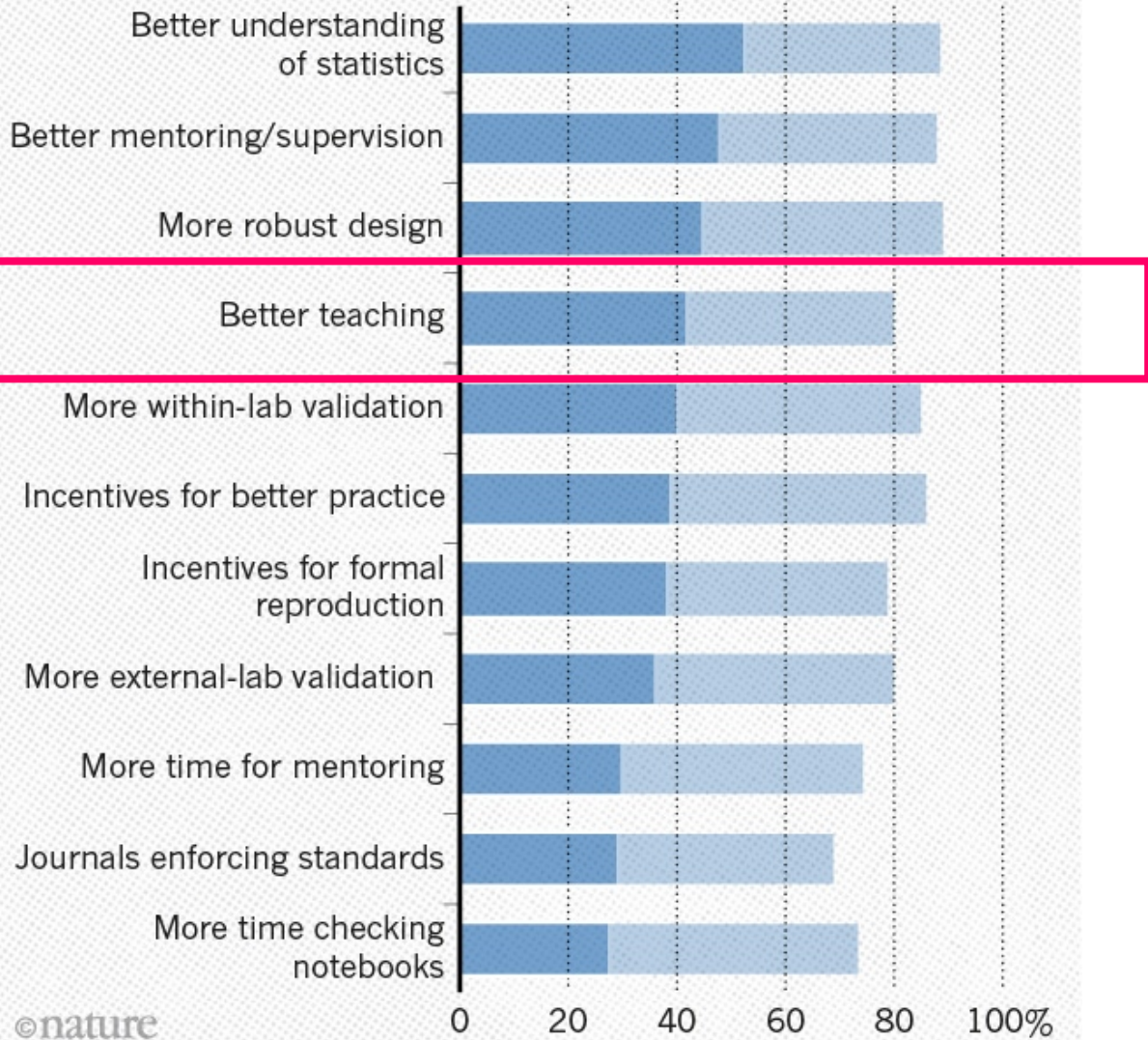
Transforming Biomedical Research  
Berlin Institute of Health



# WHAT FACTORS COULD BOOST REPRODUCIBILITY?

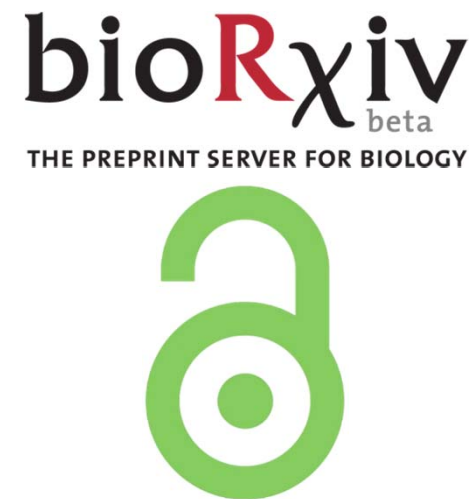
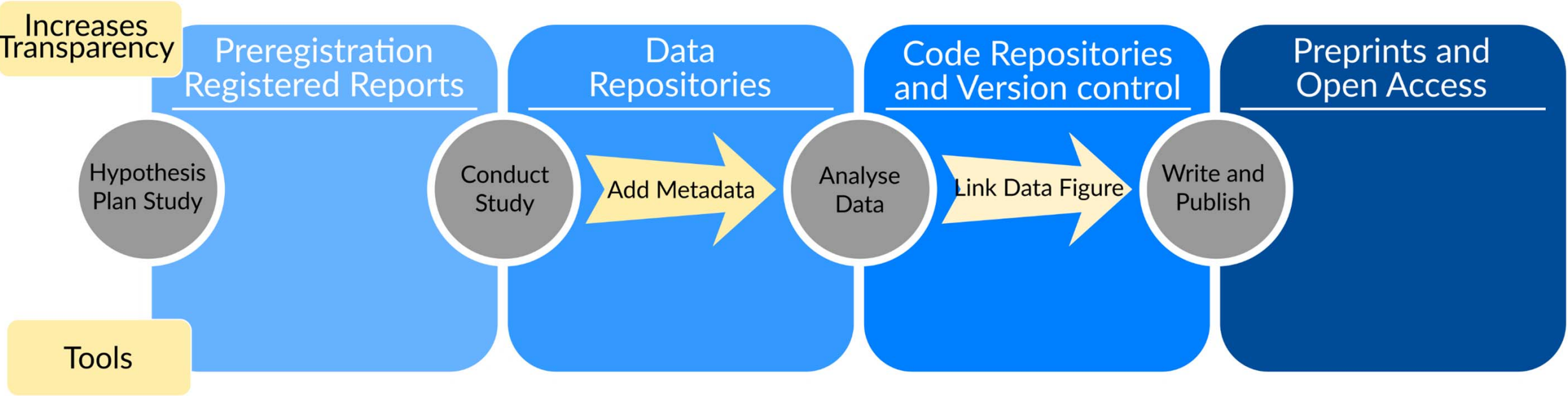
Respondents were positive about most proposed improvements but emphasized training in particular.














● Very likely ● Likely



Baker, M. (2016). 1,500 scientists lift the lid on reproducibility. Nature News 533, 452.

How to teach reproducible research?

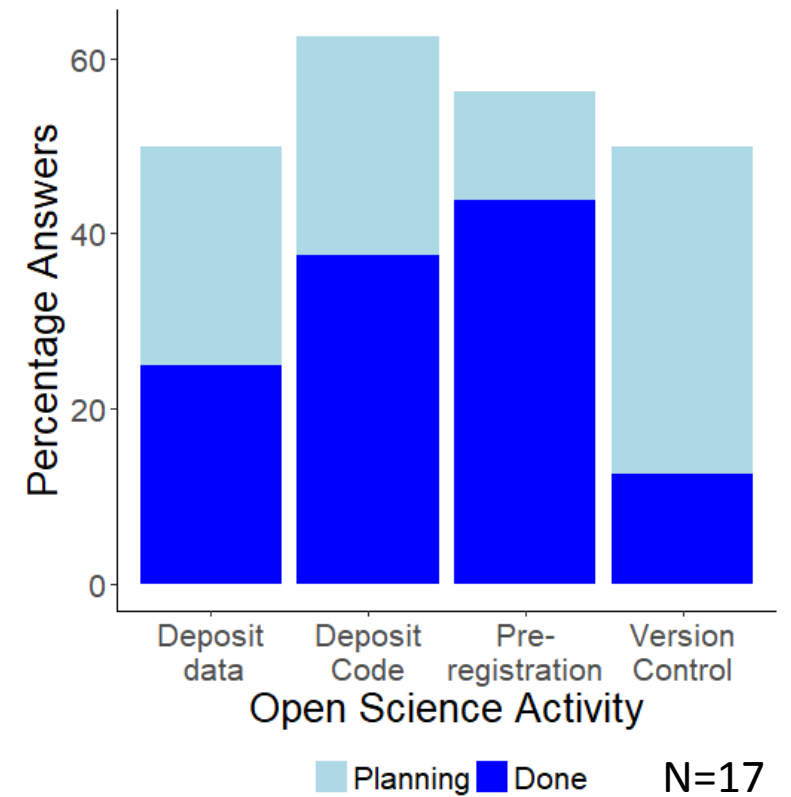
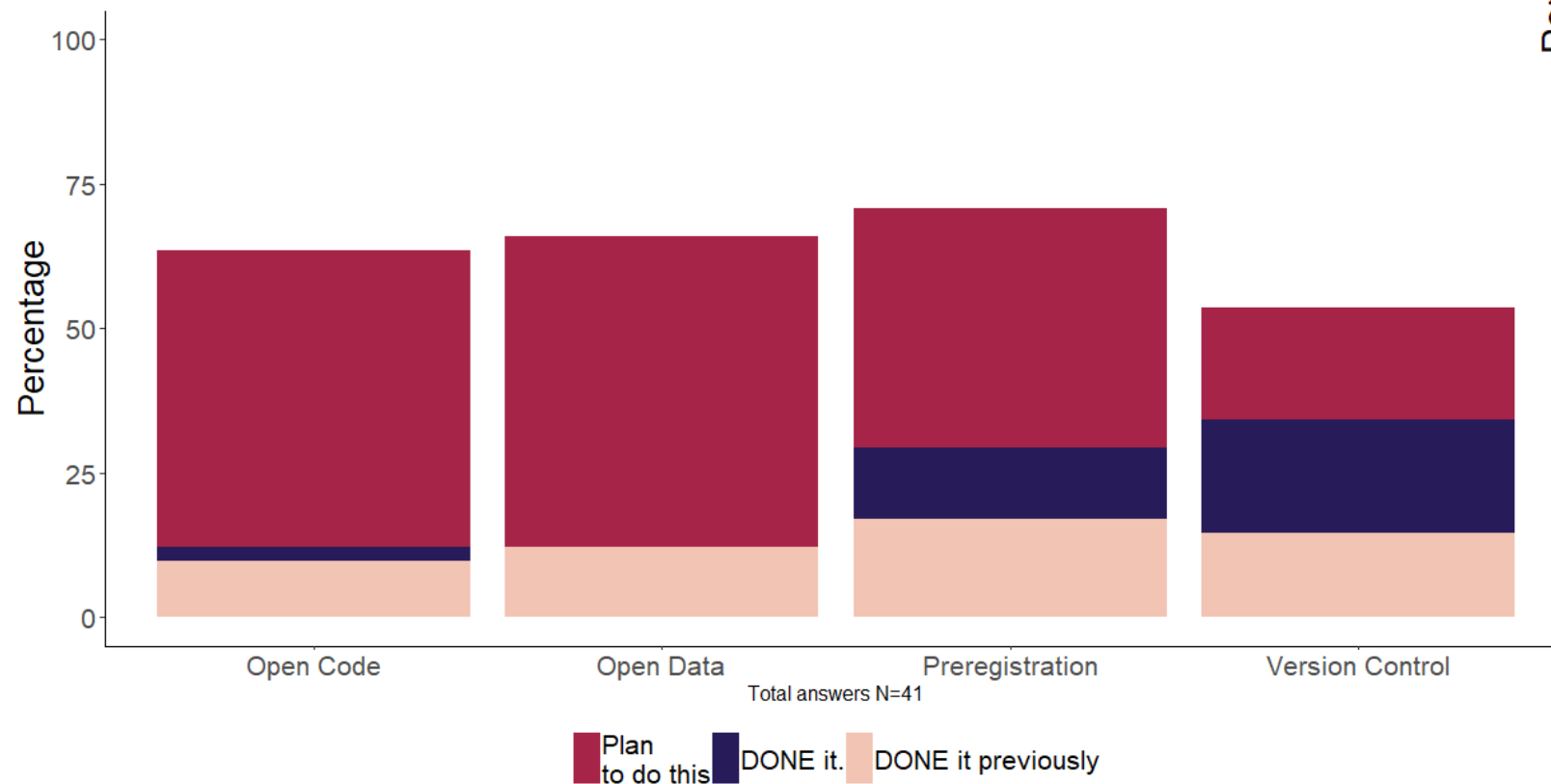


	Berlin   Oxford Summerschool on Open Research	Reproducible Research with R
Duration	4 full consecutive days	15 weeks ~2h per week + homework
Participants	40 international PhD/postdoc	~25 PhD/medical doctoral graduate students per course
Learning to code		
Multiple lecturers		
Pregistration Registered reports		
Data Repositories		
Reproducible Workflows (including Version Control)	 	
Publication strategies		

2 courses  
investigated  
via post  
course  
evaluation  
~6 months  
later  
Response rate ~50%

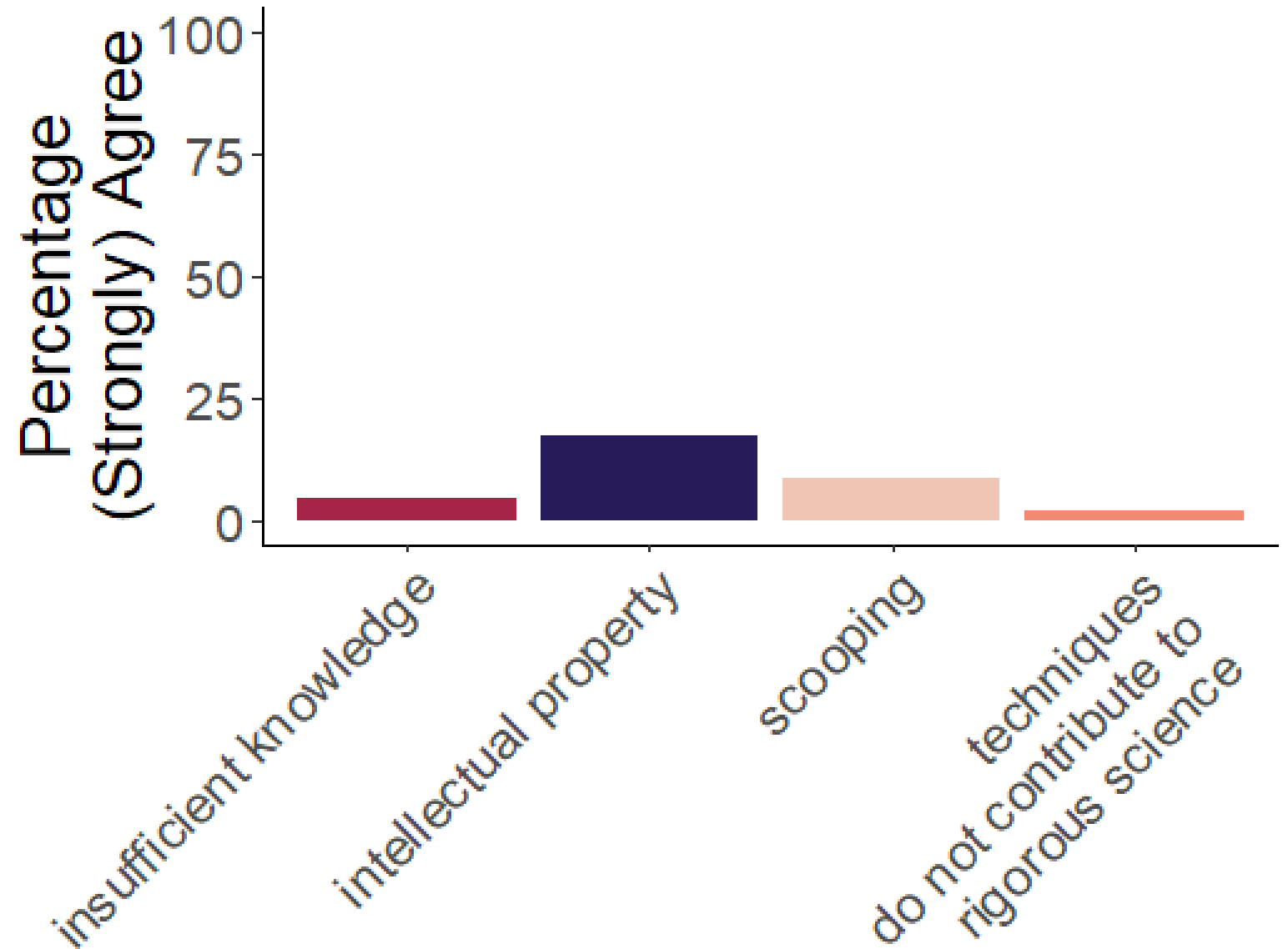


Each participants *plans* to  
 apply **at least one** repro  
 tool  
 AND **92%** plan to/do already  
 publish open access!



Toelch, U., and Ostwald, D. (2018). Digital open science—Teaching digital tools for reproducible and transparent research. PLOS Biology 16, e2006022.

Some challenges  
are not perceived  
as critical

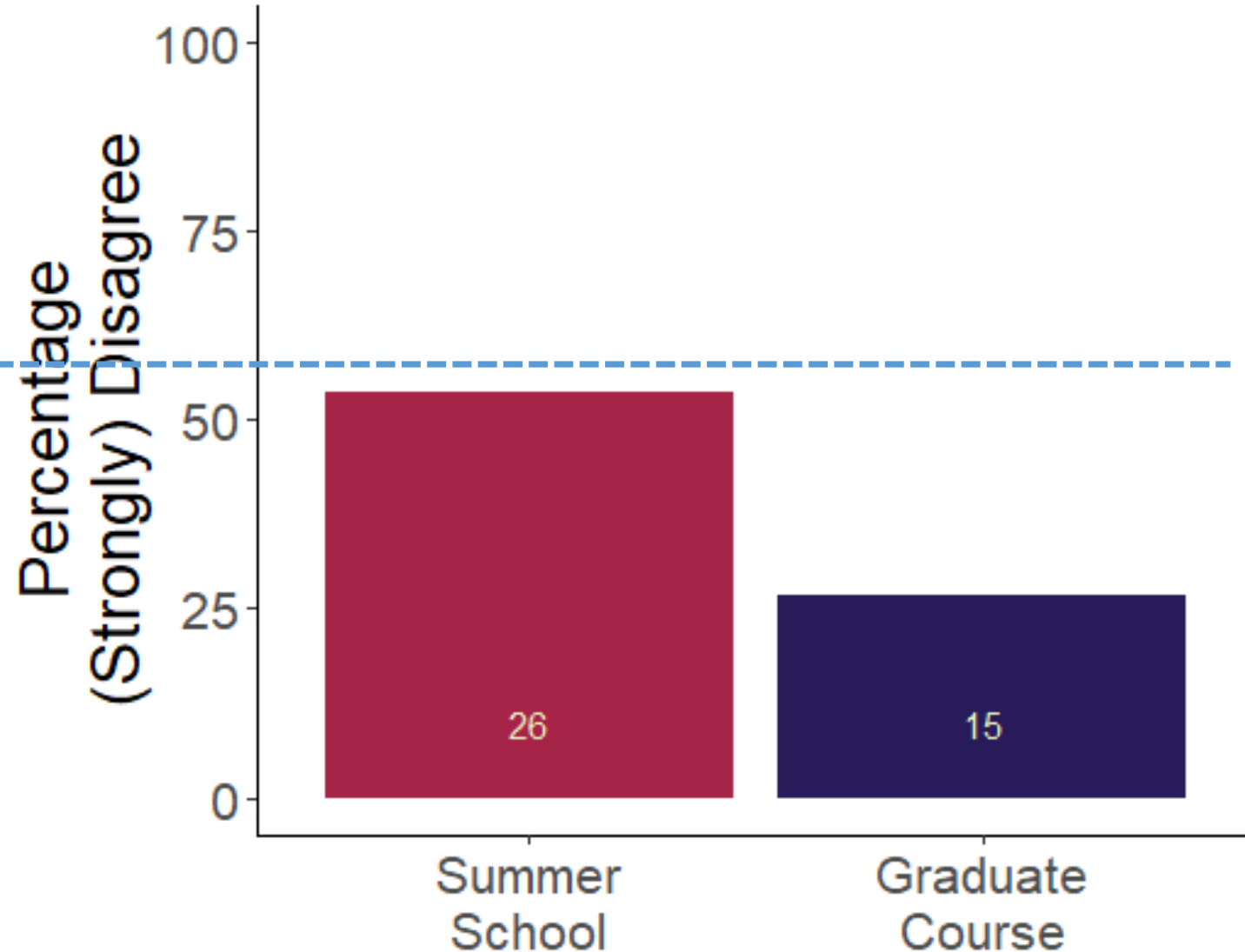


Total N=46



# Was there lack of supervisory support?

Toelch, U., and Ostwald, D. (2018). Digital open science—Teaching digital tools for reproducible and transparent research. *PLOS Biology* 16, e2006022.



# Summary

Courses on reproducible research tools included:  
preregistration, open data and code, and publishing strategies

Participants plan to engage in the covered tools  
*Will they actually do this?*

Supervisory support needed for this

## 2. Oxford | Berlin Summerschool on Open Research 16.-20.09.2019 University Oxford

<https://bit.ly/2W2obyU>



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