

Trust in science

Professor Vedran Katavić, MD PhD
University of Zagreb School of Medicine

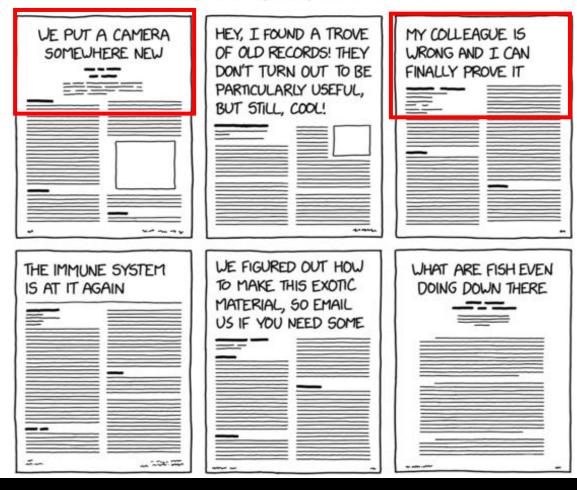


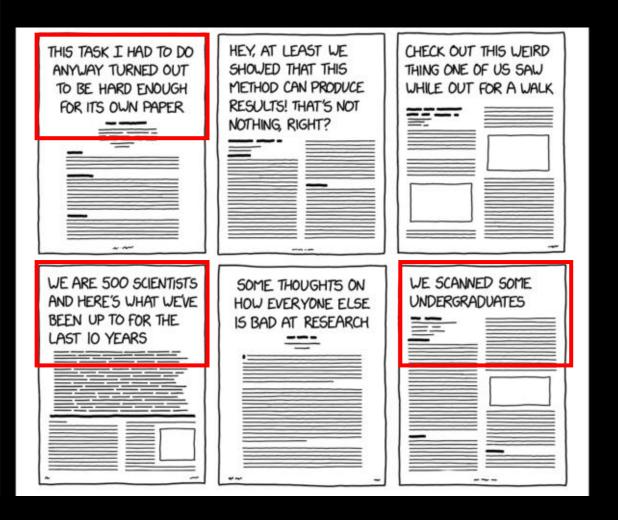
The "why"s and the "how"s of trust in science

• WHY — PERFORMED/PUBLISHED

- HOW PERFORMED
 - PUBLISHED
 - REPORTED
 - PERCEIVED

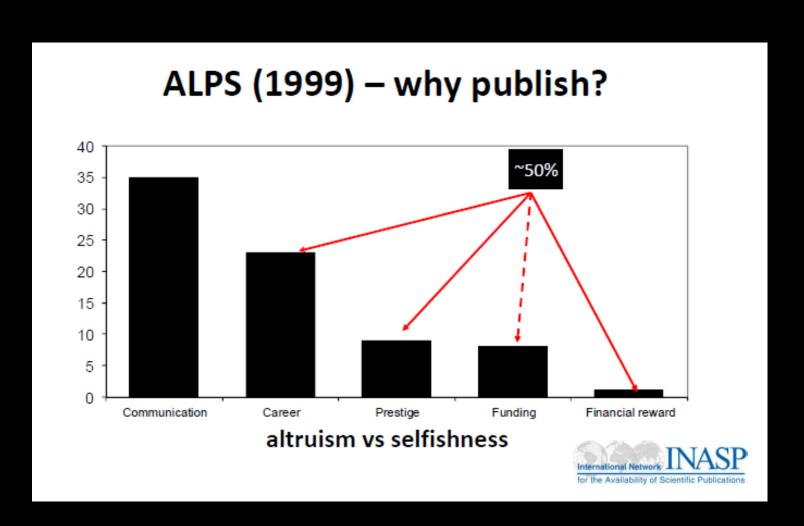
TYPES OF SCIENTIFIC PAPER



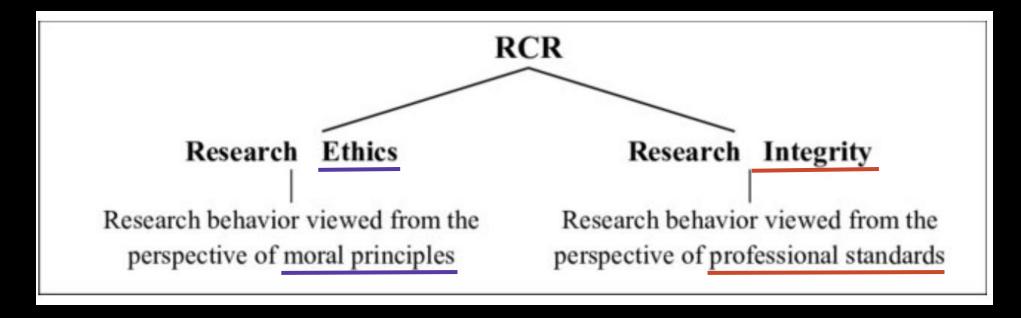


Randall Munroe, @xkcd https://xkcd.com/2456/

WHY - PERFORMED/PUBLISHED



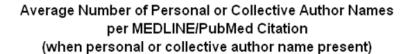
HOW - PERFORMED

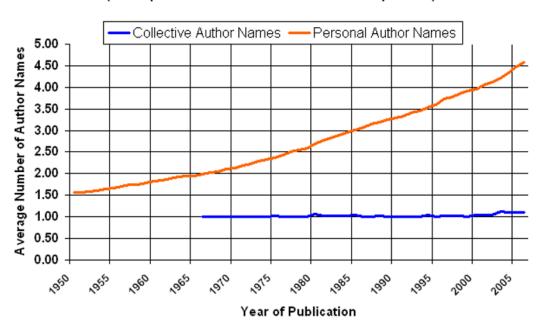


Fostering integrity in research: Definitions, current knowledge, and future directions

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Nicholas H. Steneck PhD Science and Engineering Ethics 12, 53–74 (2006) | Cite this article 2893 Accesses | 190 Citations | 14 Altmetric | Metrics
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HOW - PUBLISHED





HOW - REPORTED

JOURNALISTS



What my friends think I do



What my parents think I do



What society thinks I do



What my editors think I do

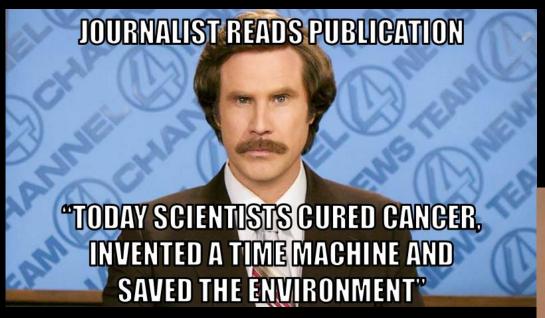


What I think I do



What I really do

HOW - PERCEIVED







Possible answers

TRUE

• integrity vs FFP, QRPs

• JUST/FAIR

• ethics, QRPs

WISE

• public responsibility, privilege

Possible tools

 publication ethics/outreach – scientific and popular

education – bias(es), correlation
 vs causation, evidence hierarchy

citizen (involvement) science

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