

WRITING AN EFFECTIVE RESEARCH PAPER



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What is the purpose of research paper?



- Share knowledge gained with other researchers
- Show how your study fits into current science
- Inform the public about the important scientific activity

Important factors of research writing quality

1) Coherence

- ✓ Include all necessary information in each section
- ✓ Do not repeat information unless necessary

2) Organization

- ✓ Follow **IMRD** structure
- ✓ Put the right parts in the right place

Important factors of research writing quality

3) Relevance

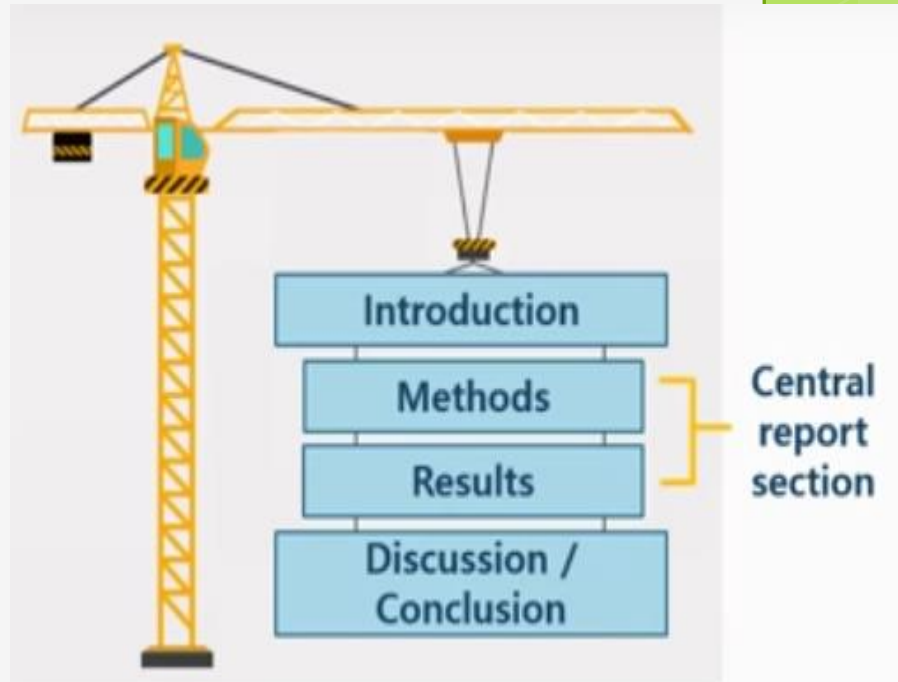
- ✓ Conform to length guidelines and and keep paper focused
- ✓ Choose a limited amount of data to present in each section

4) Clarity

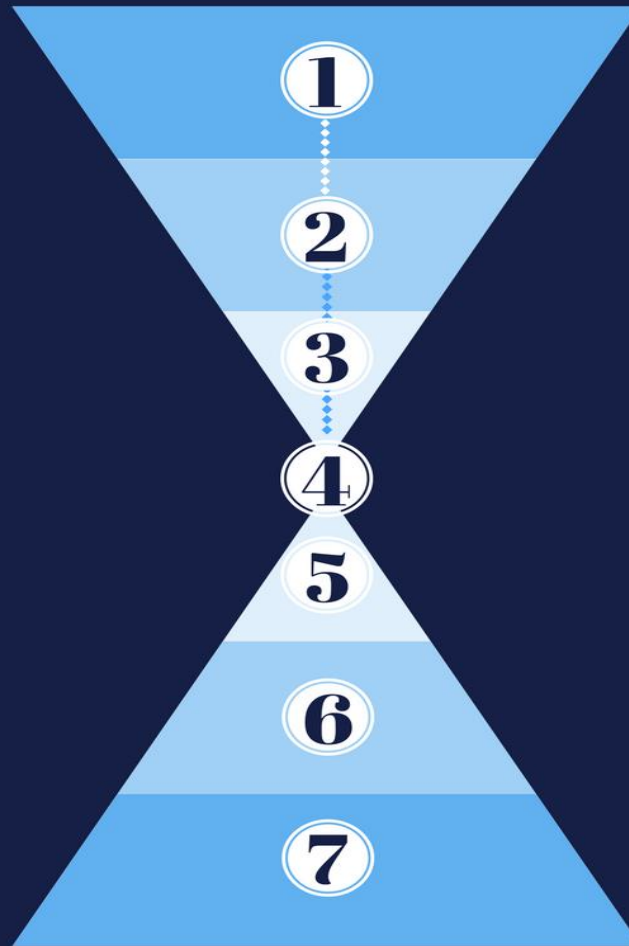
- ✓ Should be easy to read and understand
- ✓ Use proper grammar, phrasing, and style

** Check formatting and style rules of your target journal*

Most journals
require research
paper to use
IMRD or similar
format



THE ANATOMY OF A SCIENTIFIC PAPER



- 1** **INTRODUCTION:**
What is known?
(Our understanding of the world)
- 2** What is unknown?
(What's the gap we want to fill?)
- 3** How and why should we fill the gap?
(Your rationale and purpose/hypothesis)
- 4** **METHODS:**
What did you do?
- 5** **RESULTS:**
What results did you get?
- 6** **DISCUSSION:**
How do the results fill the gap?
- 7** **CONCLUSION:**
What does this mean for us going forward?

1. INTRODUCTION

What does it do?

- Discusses the problem to be solved
- Describe where your research fits into the science current
- Uses primary literature and summarizes the current understanding of the problem

2. METHODS

What does it do?

- Tells how you did the study
- Tells what materials and methods of experimentation and analysis were used

3. RESULTS

What does it do?

- Explains the important findings of your study that help to answer your research question

4. DISCUSSION/CONCLUSION

What does it do?

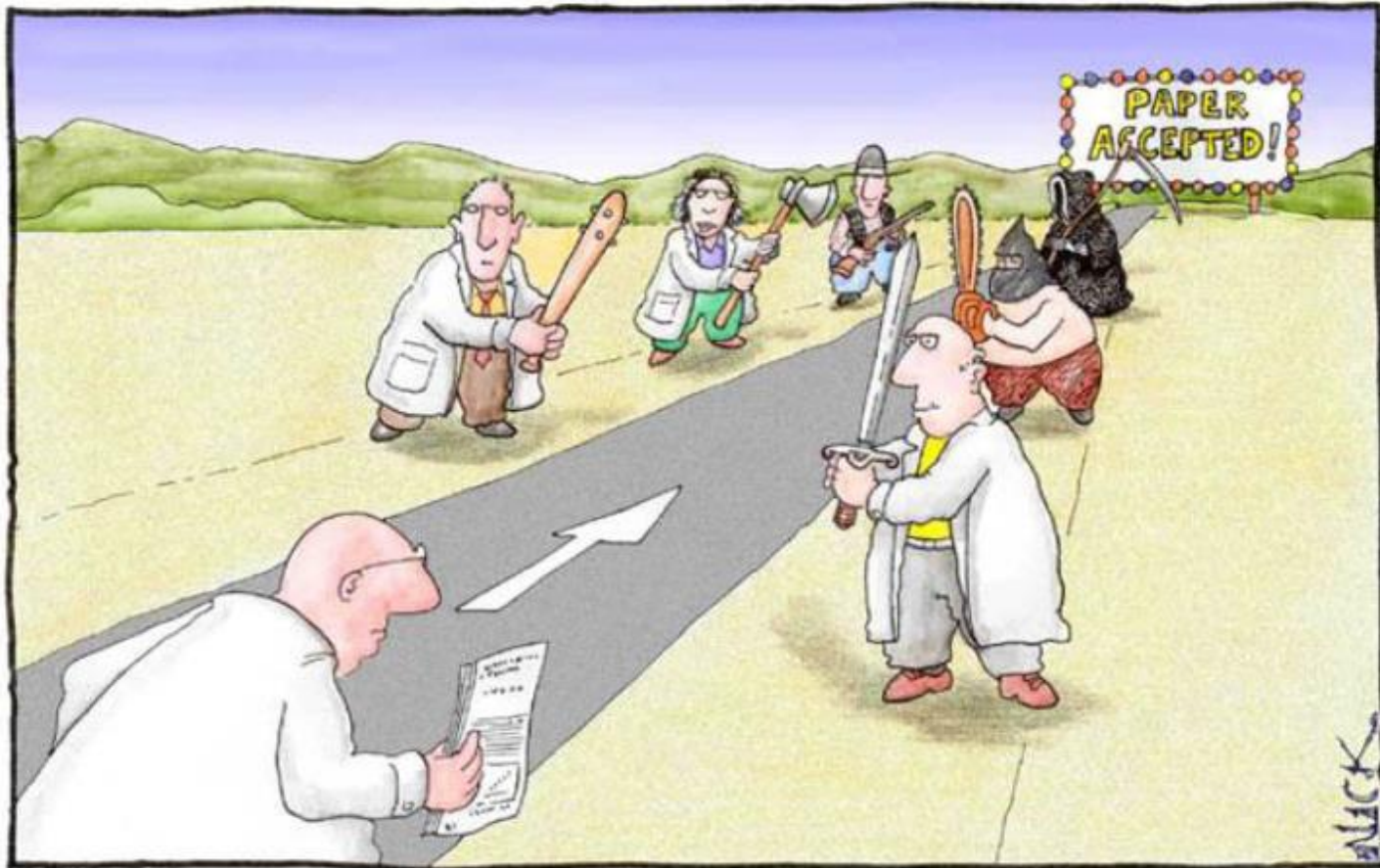
- Explains what your findings mean and implication to your area of study and to related fields
- Includes limitations to your study and and discusses possible future research that is needed

Before writing your paper...

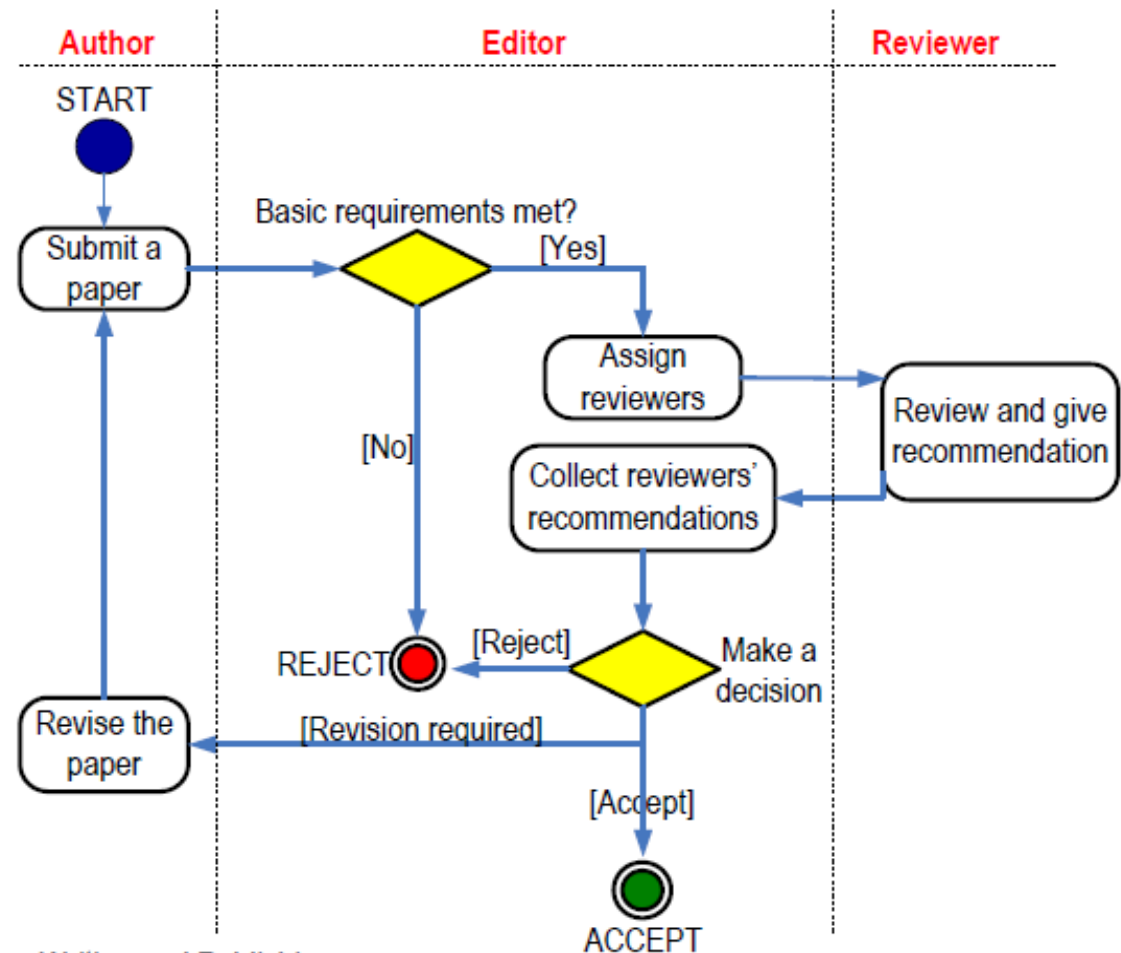
Write down your research questions and hypotheses

- *“What did this study seek to find?”*
- *“What are the study’s main arguments or questions?”*
- *“Decide which audience/journal you writing for”*

Why are you here?



It is not a black hole!





**Thanks
for your attention**