

# 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

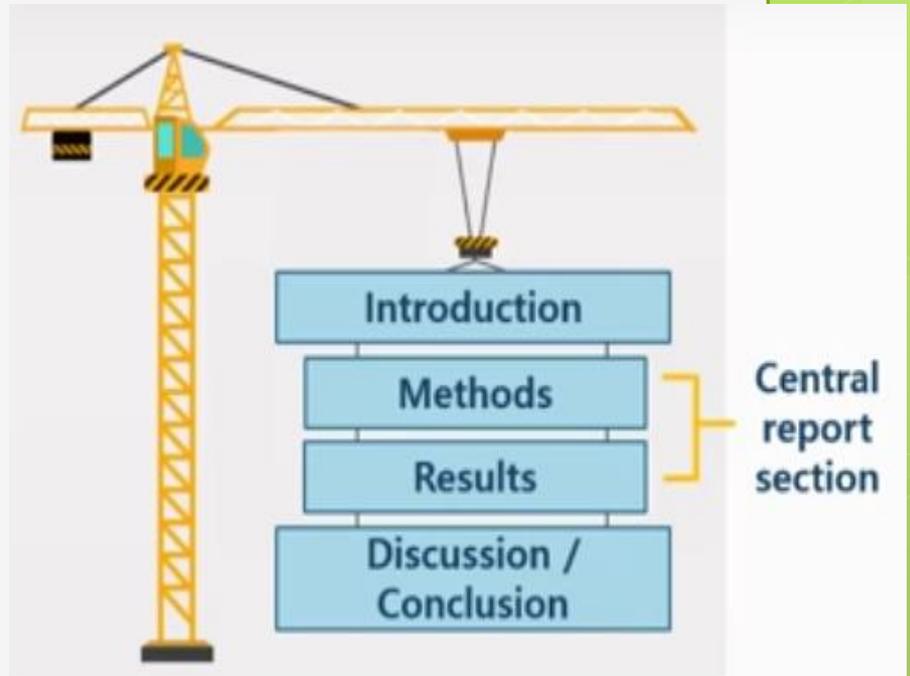
- ✓ Conform to length guidelines and and keep paper focused
- ✓ Choose a limited amount of data to present in each section

## 4) Clarity

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

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

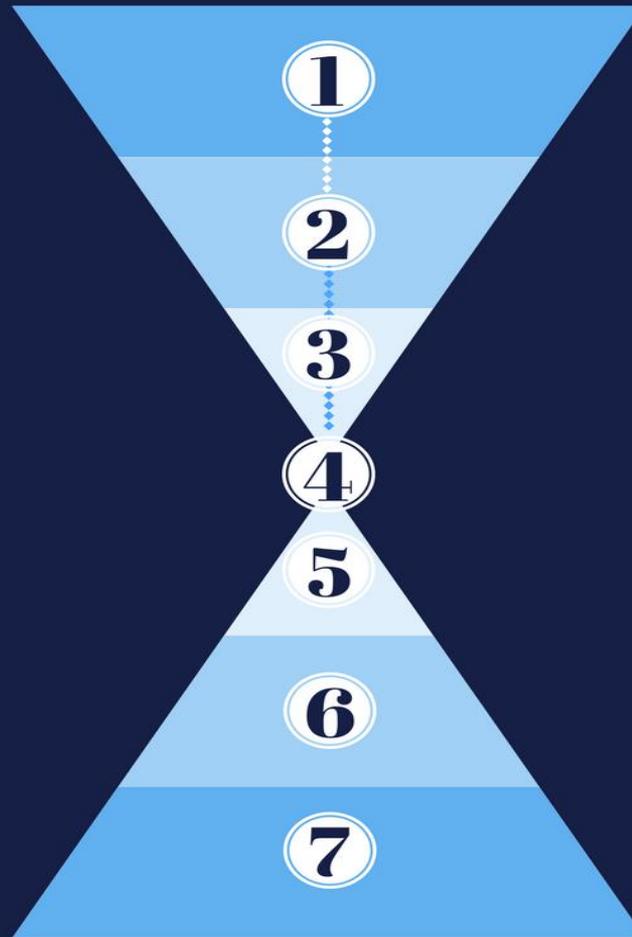
Most journals  
require research  
paper to use  
**IMRD** or similar  
format



# THE ANATOMY OF A SCIENTIFIC PAPER



Wordvice



- 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?

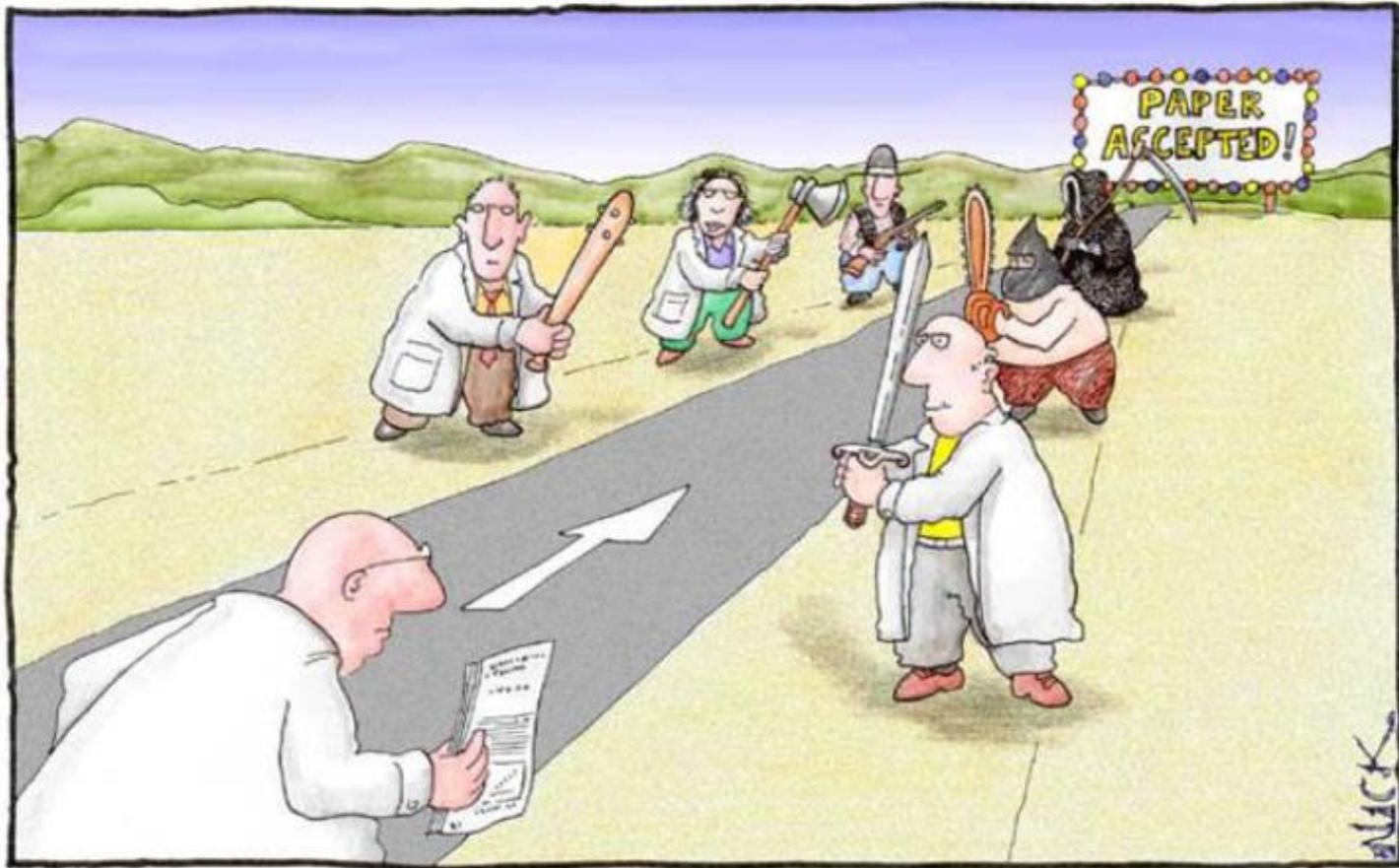
- Explains what your findings mean and implication to your area of study and to related fields
- Includes limitations to your study and and discusses possible future research that is needed

## Before writing your paper...

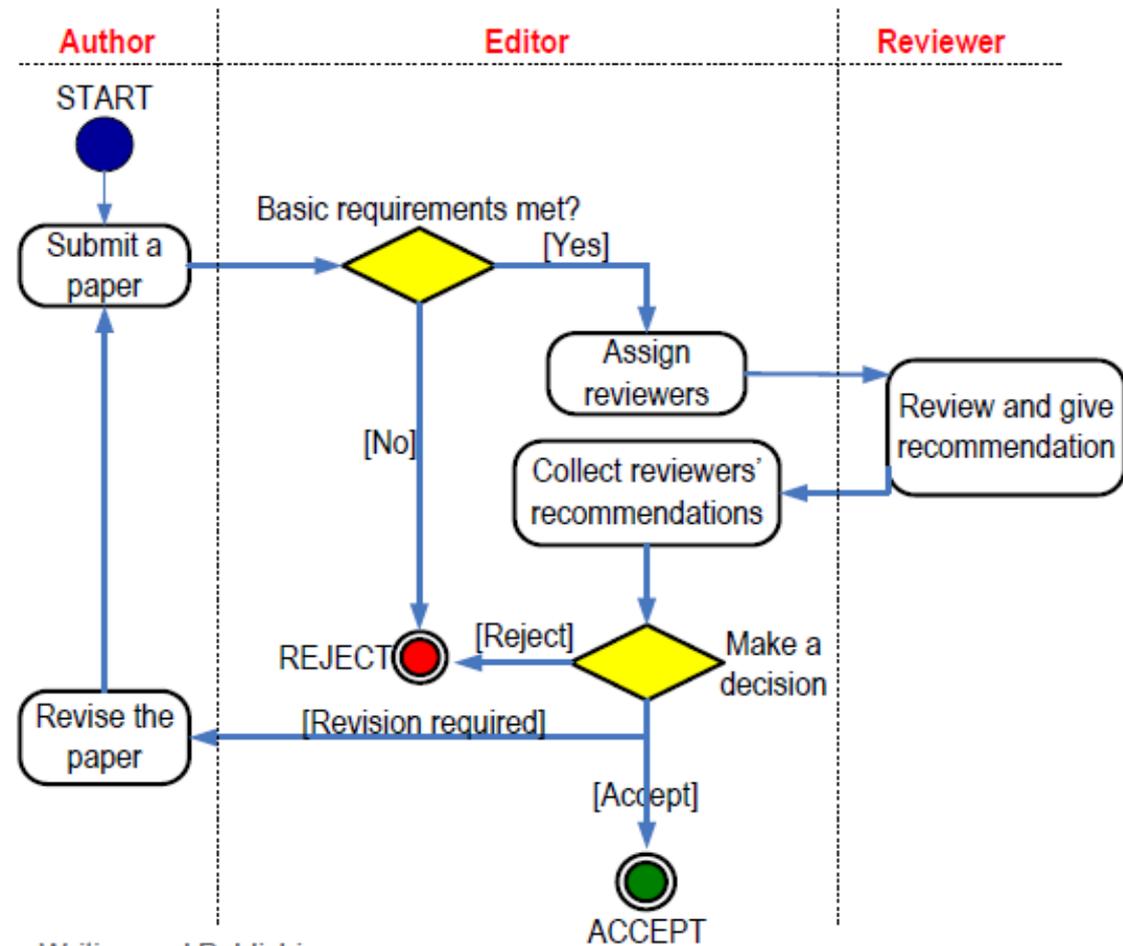
### Write down your research questions and hypotheses

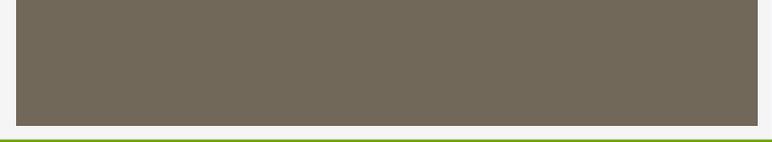
- *“What did this study seek to find?”*
- *“What are the study’s main arguments or questions?”*
- *“Decide which audience/journal you writing for”*

Why are you here?



# It is not a black hole!





**Thanks  
for your attention**