

# **Peer Review Through Ages!**

A BRIEF HISTORY OF PEER REVIEW

Peer Review ensures that the papers published in scientific journals address meaningful research questions and draw conclusions based on ethically executed experiments.

### Inception in ancient **Greek culture** The peer review process, although not

known as peer review, was used as a method of evaluating written work back in the times of ancient Greece.

## 854-941 CE

## First described by a phycisian

A Syrian physician named Ishaq bin Ali al-Rahwi, first described the peer review process in his book Ethics of the Physician.

## IN 1453

#### Invention of printing press

Written documents were now available to general public. Reviewing and regulating the quality of content became more of a concern.

## IN 1620

## assessing science In Francis Bacon's work, Novum Organum,

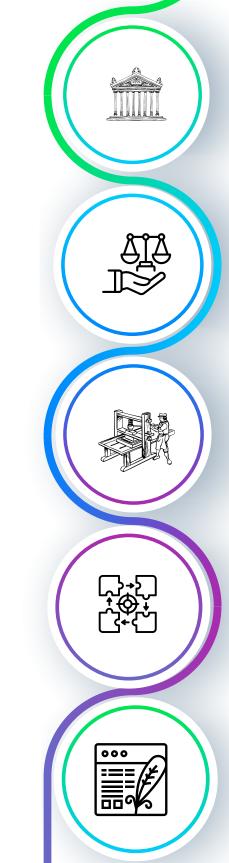
First universal method for

he described the first universal method for generating and assessing new science.

## IN 1665

### Systematic research publishing

Philosophical Transactions of the Royal Society is the first journal to formalize the peer review process in 1665.



matter to those members who are most versed in these matters. The report of their identity is not known to the author." 1665-1731

The Royal Society of Edinburgh published in their Medical Essays and Observations in 1731: "Memoirs sent by correspondence are distributed according to the subject



## process

## Manuscripts were distributed to reviewers with the intent of authenticating the integrity of the

Evolution of the peer review

research study before publication. 1752



publishing

#### The Royal Society of London adopted the similar review procedure in 1752 by developing the "Committee on Papers" to review manuscripts.

Review manuscripts before

The function of the committee was to review abstracts and secretly vote on what to publish in the transactions. 1940



## standard practice

## Peer review in the systematized and institutionalized form developed immensely in

the field of research.

Peer review became a



The peer review process is making progress to maintain research integrity by introducing

new models.

2.

**Today** 



about a research paper. In this model, an author's ideas are

(publicly). Also, along with making the papers subject to

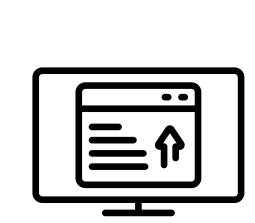
presented online and readers are invited to post their comments

public critique, a peer review report is published alongside the article



## ensure that the submitted papers are true to science and its claimed results.

group of peers, who correspond with the author/s and other reviewers to



# The "Mega-journals" model

3.

#### publishes numerous peer reviewed articles covering different subject areas. These journals accept articles that are

High volume peer review

This model focuses on research

integrity by finding the fundamental validity of the research contribution, and not only for its novelty and impact.

technically sound rather than selecting them for perceived importance.



4.

independent review systems are Al-based. They help in reporting unprejudiced reviews which are reliable and ensures research integrity. Through the advancement of science, the need

for peer reviewers has grown. Their service to research has helped science for better knowledge dissemination. And now, with a surge in AI-based tools and unbiased ethical review systems being encouraged, peer review process is heading towards becoming a completely automated system. Salvaging the





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quality and integrity of research.