

All about Journals

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Why Publish?

- Advancement of science
- Recognition
- Career and Academic progression
- Job requirements

What is scientific literature?

Terminology

- *Publish*- to produce a work in printed /electronic form
- *Manuscript*- the written document submitted to a journal
- *Article*- a nonfiction piece of writing published in a journal
- *Scientific journal* – a periodical publication intended to further the progress of science, usually by reporting new research
- *Citation*- Article cited as a reference in another article

Types of Journal

Scope

- Broad
 - *Cell, NEJM, Nature, Science*
- A particular discipline
 - *Analytical Chemistry, Neuron, Applied Geochemistry*
- Highly specialized
 - *Neuropeptides, Journal of Shellfish Research*

Open access vs. Subscription based journals

Predatory Journals

- Definition (*Nature*, 2019)
 - *“Predatory journals and publishers are entities that prioritize self-interest at the expense of scholarship and are characterized by false or misleading information, deviation from best editorial and publication practices, a lack of transparency, and/or the use of aggressive and indiscriminate solicitation practices.”*
- Beall’s list, Caball’s list, DOAJ (Directory of Open Access Journals)

Indexing Databases

- Citation index- is a bibliographic database
 - Science Citation Index (SCI) (Web of Science)
 - Scopus (Elsevier)
 - Index Medicus (Medline)
 - PubMed, PubMed Central
 - Embase (Biomedical pharmacological database)
 - Index Copernicus(IC)
 - Indian Citation Index (ICI)

Publication Metrics

Journal Metrics

- Impact Factor (IF)
 - Average number of citations of the articles published in the last two years
- h5 index- number of articles(h) that have received at least 'h' citations in the last 5 years

Author metrics

- h index- number of articles(h) that have received at least 'h' citations
- i10-index – number of articles with at least 10 citations

How to get published

Types of Articles

- Original Research Article
- Reviews
- Authoritative opinions/ Theoretical articles
- Reports/ Observations

Standard format of a Journal article

- Title
- Author details
- Abstract
- Bradford's IMRAD format
 - Introduction
 - Materials and Methods
 - Results
 - And
 - Discussion and Conclusions
- Acknowledgements, Conflicts of interest
- References

Process flow of an article at a Journal

What do Journal editors want?

- Is it covered under Scope of the Journal?
- Is it original or novel?
- Research rigor
- Does the research advance the field?
- Importance of the study is relayed
- Clear and concise language
- Carefully planned and formatted
- Follows ethical standards
- International reach

How to choose a Journal

- Scope of the journal?
- Peer reviewed?
- Indexed?
- Periodicity?
- Popularity and Impact factor?
- Reach- National/ International?
- Print/Electronic/Both?
- Open Access?

Publication Ethics

- Relevant approval and consent
- Data accuracy, Falsification, Fabrication
- Plagiarism
- Simultaneous submission
- Previously published work
- Salami slicing
- Authorship guidelines
- Conflicts of interest

Thank you