

PUBLICATION ETHICS

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PUBLICATION ETHICS

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1. Core Definition

Publication ethics constitutes the established and generally agreed-upon rules of conduct that govern the submission, review, and dissemination of scholarly work and scientific research findings. At its foundation, this standard is designed to ensure the integrity of the scientific record, safeguarding against misinformation, misrepresentation, and fraud. It acts as a critical institutional framework intended to protect the intellectual property rights of creators while simultaneously assuring readers and the wider academic community that the information being published is reliable, original, and derived from sound methodological practice. These ethical principles apply universally to all parties involved in the scholarly communication process, including authors, editors, peer reviewers, and publishers, establishing a shared responsibility for maintaining trustworthiness in scholarship.

The core mandate of publication ethics revolves around honesty and accountability. Specifically, these rules strictly forbid the re-publication of another individual's work or ideas without providing explicit and proper credit, thereby protecting against **plagiarism** and unauthorized use of intellectual effort. Furthermore, publication ethics demands that all data and information presented as original research must, unequivocally, be authentic and accurately reported. If data collection or analysis involves fabrication or manipulation, or if the work duplicates previously published material without appropriate disclosure (a practice known as redundant or duplicate publication), severe breaches of ethical standards occur, undermining the very foundation of cumulative scientific knowledge.

A key incident illustrating the necessity of publication ethics, as noted in foundational psychological literature, occurs when similarity is observed between ostensibly independent works, such as when "Dr. Halvorson noticed a remarkable similarity in his work to another article published earlier." Such scenarios necessitate formalized ethical guidelines and robust investigative procedures to determine whether improper conduct, such as misappropriation of ideas or undisclosed duplicate submission, has taken place. The enforcement of these ethics is essential because the public and policymakers rely on published research to make critical decisions; thus, the validity of the published literature must be beyond reproach.

2. Etymology and Historical Development

While the pursuit of truth and intellectual honesty has been central to academic life since ancient times, the formal codification and widespread institutional adoption of publication ethics are a relatively modern development, largely stemming from the exponential growth of scientific

publishing post-World War II. Before the mid-20th century, ethical concerns were often managed informally within academic departments or professional societies. However, as research funding increased, competition intensified, and the volume of peer-reviewed journals exploded, the need for standardized, internationally recognized rules became acutely apparent to manage conflicts of interest and address increasingly sophisticated forms of research misconduct.

The formalization of these standards was significantly catalyzed by a series of high-profile research fraud cases during the 1970s and 1980s, which exposed systemic weaknesses in the peer review and editorial processes. These incidents highlighted that relying solely on the good faith of individual researchers was insufficient to maintain public trust. In response, major organizations began developing concrete guidelines. A seminal moment occurred with the establishment of organizations like the Committee on Publication Ethics (COPE) in 1997, founded by a small group of UK journal editors dedicated to tackling issues of misconduct. COPE quickly grew into an international body that provides algorithms, flowcharts, and best practice guidelines that are now standard across thousands of journals globally.

The evolution of publication ethics continues today, adapting to new technological challenges, such as the rise of digital publishing, open access models, and large-scale data sharing. Initially focused heavily on plagiarism and data manipulation, the scope has broadened to include nuanced issues such as ensuring transparency regarding funding sources, managing the ethical implications of artificial intelligence in authorship, and addressing the phenomenon of **predatory journals**, which exploit authors for profit without upholding rigorous ethical or peer review standards. This historical progression reflects a transition from localized professional customs to an intricate, globalized system of codified ethical governance.

3. Key Categories of Ethical Violations

Breaches of publication ethics fall into several distinct categories, collectively threatening the integrity of the scholarly record. The most recognized violation is **fabrication, falsification, and plagiarism (FFP)**. Fabrication involves inventing data or results entirely and recording or reporting them, whereas falsification entails manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record. These intentional misrepresentations directly mislead the scientific community and can lead subsequent researchers down unproductive paths.

Another major area of concern is **plagiarism**, defined as the appropriation of another person's ideas, processes, results, or words without giving appropriate credit. Plagiarism includes not only direct copying of text but also unauthorized use of unique ideas or methodologies. A related, though often debated, breach is **self-plagiarism**, or redundant publication, where authors recycle substantial portions of their own previously published text or data without proper citation or

notification to the editor. While some overlap is acceptable in methods sections, the unauthorized re-use of unique findings to create multiple publications (salami slicing) is fundamentally unethical because it inflates the perceived productivity of the researcher and distorts the scientific literature by making findings appear more robust or numerous than they truly are.

Furthermore, ethical lapses surrounding **authorship** criteria constitute a significant violation. Authorship should be based on substantial contributions to the conception, design, execution, or interpretation of the research. Violations include "gift authorship," where individuals who did not contribute significantly are listed as authors to boost their careers or prestige, and "ghost authorship," where individuals who made substantial contributions are not credited. These improper practices misrepresent who is responsible and accountable for the published work, hindering transparency and the accurate attribution of credit and responsibility.

4. Regulatory Bodies and Institutional Guidelines

The framework for enforcing and guiding publication ethics is managed by several influential international and national bodies that issue detailed standards and handle complex cases of alleged misconduct. The previously mentioned Committee on Publication Ethics (COPE) is perhaps the most globally recognized body, providing practical resources, training, and advice to editors and publishers on how to manage integrity issues. COPE's guidelines establish clear pathways for handling retractions, expressions of concern, and authorship disputes, setting the benchmark for industry best practice.

In the biomedical and health sciences, the **International Committee of Medical Journal Editors (ICMJE)** provides highly specific recommendations, particularly concerning authorship and disclosure of conflicts of interest. The ICMJE criteria stipulate four mandatory requirements for authorship, ensuring that accountability is linked directly to the contribution: 1) substantial contributions to the work; 2) drafting or critically revising the work; 3) final approval of the version to be published; and 4) agreement to be accountable for all aspects of the work. Adherence to these strict criteria prevents the widespread abuses associated with gift and ghost authorship.

In the United States, the Office of Research Integrity (ORI), operating under the Department of Health and Human Services (HHS), plays a pivotal role in promoting research integrity and investigating allegations of FFP involving federally funded research. ORI's definitions of misconduct and its procedures for institutional investigation set a powerful precedent for academic and government labs. Collectively, these bodies--COPE, ICMJE, ORI, and similar organizations globally--create a multi-layered accountability system that mandates journals, universities, and funding agencies to implement effective training, transparent reporting mechanisms, and rigorous disciplinary actions when misconduct is confirmed.

5. Significance and Impact on the Scientific Record

The adherence to rigorous publication ethics is fundamental to the long-term success and trustworthiness of science. Its primary significance lies in maintaining the integrity of the scientific record--the vast, cumulative body of knowledge upon which all subsequent research, policy decisions, and technological advancements are built. When ethical breaches occur, they introduce noise and falsehoods into this record, forcing future researchers to waste resources trying to replicate or build upon fraudulent findings, thereby slowing down the pace of genuine discovery.

Furthermore, strong ethical standards are essential for upholding the public's trust in science and expertise. High-profile cases of misconduct, especially those involving medical research or public health, can erode confidence in scientific institutions, leading to skepticism about reliable findings and undermining efforts to address societal challenges. Publication ethics ensures transparency regarding funding sources and conflicts of interest, providing readers with the necessary context to evaluate potential biases that might influence reported outcomes.

Ultimately, publication ethics supports the principle of **accountability**. By demanding accurate data presentation, proper attribution, and transparent process documentation, the ethical framework ensures that researchers stand behind their work and can be held responsible for any errors or intentional misdeeds. This culture of accountability reinforces the self-correcting nature of science, guaranteeing that if flaws are detected, the literature can be corrected through mechanisms like retractions or errata, protecting the collective knowledge base.

6. Challenges, Debates, and the 'Publish or Perish' Culture

Despite the comprehensive guidelines established by regulatory bodies, the ethical landscape of publishing faces persistent challenges, many of which stem from the intense competitive pressures within academia. The "publish or perish" culture, driven by institutional demands for grants, tenure, and promotion, often incentivizes quantity over quality, contributing directly to ethical compromises such as redundant publication, salami slicing, and data massaging designed to yield "publishable" results rather than robust science. This systemic pressure creates an environment where cutting corners may appear advantageous.

A significant modern debate centers on the rise of **predatory publishing**. These are entities that mimic legitimate journals, often employing deceptive practices to solicit manuscripts and collect publication fees (APCs) without providing adequate peer review, editorial oversight, or ethical checks. While not traditionally defined as research misconduct by the authors themselves, publishing in such venues is considered an ethical violation of professional responsibility, as it pollutes the scholarly record and harms the reputation of the author and institution. Detecting and avoiding these journals remains a major challenge, especially for early-career researchers globally.

Moreover, ensuring consistent international enforcement of publication ethics proves difficult due to varying national laws, institutional policies, and cultural norms regarding research integrity. For example, while COPE provides global advice, it lacks direct enforcement power; penalties rely heavily on institutional willingness to investigate and discipline researchers. The complexity of cross-border data ownership, multi-site international collaborations, and differing legal standards for intellectual property means that investigations into misconduct often face jurisdictional hurdles, complicating the process of achieving unified and fair ethical resolutions.

7. Further Reading

[Committee on Publication Ethics \(COPE\)](#)

[International Committee of Medical Journal Editors \(ICMJE\) - Defining the Role of Authors and Contributors](#)

[Office of Research Integrity \(ORI\)](#)

[Wikipedia: Scholarly publishing](#)

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