

Academic Integrity

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29 October 2025



Learning Outcomes

☐ Understand:

- Best practice vs. types of misconduct in research,
- Best practice vs. types of misconduct in academic publishing: authors and publishers.

☐ Know where to find more information about

- Institutional codes of ethics,
- Legal resources on research ethics and ethical approval for research,
- Ethical requirements in academic publishing,
- Protection of whistleblowers in research and academia.

Academic Integrity I



Frabz. (n.d.). One does not simply start a project without considering ethics [Meme]. Frabz.com. Retrieved October 14, 2025, from <https://www.frabz.com>

What is your affiliation?

What level of study are you at?

What is your research field?

Terminology

ETHICS

The discipline generally concerned with
what is right and wrong in human thought and action.

ACADEMIC INTEGRITY

- A system of values to guide decision-making and actions in education, research, and scholarship.
- Compliance with ethical and professional principles, standards, and practices in academia.

RESEARCH INTEGRITY

- Subset of academic integrity
- Compliance with ethical and professional principles, standards, and practices by individuals or institutions **regarding research.**

Why Is Academic Integrity Important?

Good for the individual academic/researcher

- Justified sense of achievement
 - Furthering advances in knowledge/technological progress
- Just rewards
 - Career/remuneration
 - Reputation
 - Social status

Good for the scientific community

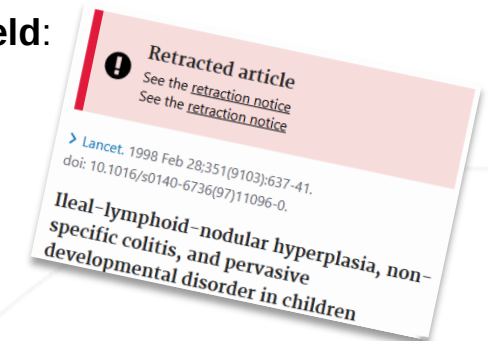
- Science as social practice
- **Public trust** in scientific knowledge



Good for society at large

- **DO GOOD** (beneficence): beneficial technologies based on scientific advances
- **DO NO HARM** (non-maleficence)

Andrew Wakefield:
The anti-vaccine scandal.



Paolo Macchiarini - trachea surgeries

Principles of Research Integrity

The European Code of Conduct for Research Integrity, designed by **ALLEA** (All European Academies), serves the European research community as a **framework** for self-regulation.

1) Reliability

As reflected in design, methodology, analysis, and use of resources.

2) Honesty

By reviewing, reporting, and communicating research in a transparent, full, and unbiased way.

3) Respect

For colleagues, research participants, and subjects, society, ecosystem, and environment.

4) Accountability

For research from idea to publication, organization, supervision, and impacts.

Other values sometimes included in academic integrity codes: • **Fairness**
• **Courage**

These principles also serve as a basis for broader examples of good research practices.

Source: ALLEA (2023). The European Code of Conduct for Research Integrity: Revised Edition 2023 [online]. Berlin. DOI 10.26356/ECOC. Available at: <https://allea.org/wp-content/uploads/2023/06/European-Code-of-Conduct-Revised-Edition-2023.pdf> [Accessed 2025-09-10].

Good Research & Publishing Practices (ALLEA)

❑ Data Management

- Clear and complete data documentation and description
- Consistent data organization
- Storage, backup, and preservation
- Appropriate inventory & sharing of data/results (e.g., access rights, repositories)
- **Clear lines of responsibility**

❑ Training & Oversight

- Familiarity with guidelines and policies on:
 - plagiarism
 - copyright
 - use of lab notebooks
 - raw data retention
 - preparation of mss
- Regular meetings to review general progress and raw data
- **Clear lines of supervision**

Learn more:

Best Practice Guidance for Research Students (Cambridge University)

Best Practices for Promoting Research Integrity (MIT)

Good Research & Publishing Practices (ALLEA)

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Learn more:

Introduction to Research Data Management (webinar)

How to publish your data - Zenodo and other repositories (in-person workshop)



Learn more:

Best Practice Guidance for Research Students (Cambridge University)

Best Practices for Promoting Research Integrity (MIT)

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Good Research & Publishing Practices Cont.

❑ Authorship

- No “honorary” authorship
- All co-authors responsible, jointly and individually, for conclusions
- Submitting author to coordinate efforts and get everyone’s consent before submission
- Clear lines of responsibility

❑ Publishing Research Results

- Describe methods & materials clearly and completely
- Acknowledge sources and cite properly
- Read and follow instructions of target journal/publisher on conflict of interest & other ethical issues
- Avoid predatory journals

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Highly Recommended Resources:

- Committee on Publication Ethics (COPE)
- COPE Publication Integrity Week 2025

Learn more:

NTK Guide to Predatory journals

My First Scientific Article (webinar)



Good Research & Publishing Practices Cont.

❑ Responsible Supervision

- Openness and correctness in communication
- Respect, equity, diversity, and inclusion
- Supervision, mentoring, and transfer of knowledge skills
- Free exchange of information and opinions
- Expand **skills** and **knowledge** (e.g., training, courses, conferences)

❑ Safeguards

- Comply with relevant codes, regulations, guidelines
- Consider ethical and safety aspects and requirements
- Cause no harm to society and environment
- **Clear pathways to report & complain**

Learn more:

Supervisory Charles University: [Benchmark for Supervisors at Charles University](#)

Supervisory Practice Framework: <https://supervision.ukcge.ac.uk/good-supervisory-practice-framework>

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❑ The One Thing Always Needed

Clearly defined roles and lines of responsibility.

Learn more:

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Are you familiar with the Code of Ethics at your institution?

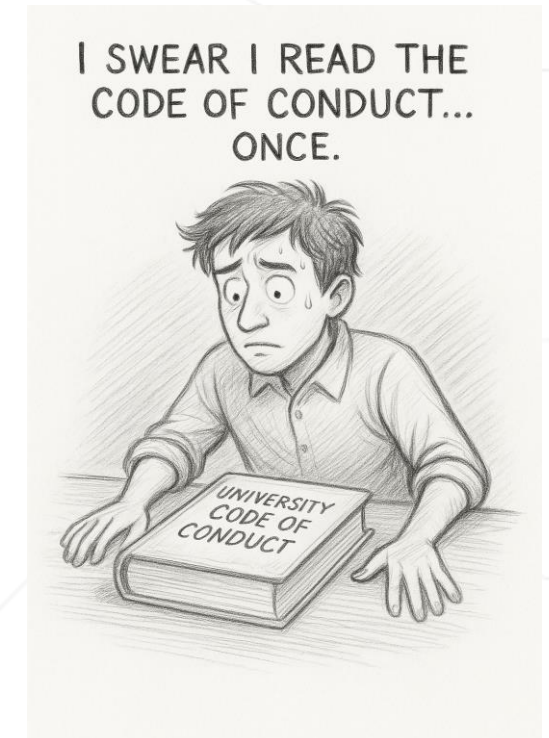
Universities

❑ Code of Conduct (Code of Ethics)

- Document published by a university, college, or another institution that sets out the standards of behavior, responsibility, and ethical principles expected from members of the organization.
- It defines what is **prohibited** but also what is **encouraged**.

❑ University Codes of Conduct

- UCT Prague
- CTU
- CZU
- Charles University
- Palacký University
- University of Ostrava
- Masaryk University



OpenAI. (2025). ChatGPT 5 (October 14)
[LLM]. <https://chat.openai.com/chat>.

Other Academic Institutions, Journals and Publishers, Funding Agencies

❑ Other Academic Institutions

- Czech Academy of Sciences Code of Ethics for Researchers
- IOCB Code of Ethics for Researchers

❑ Publishers: Guidelines and Policies

- Elsevier: Policies and Ethics for Authors, Publishing Ethics
- Springer: Publishing Ethics for Journals, Editorial Policies
- Wiley: Guidelines –Publishing Ethics

❑ Funding Agencies

- Czech Science Foundation (GAČR): Code of Conduct (Czech, English languages)
- European Commission: Funding & tender opportunities (Ethics review)
- Horizon Europe: Programme Guide, How to complete your ethics self-assessment

Scientific Misconduct

Misconduct: Individual vs. Systemic Perspectives

❑ Individual

- Personal reasons/motives
- Pressure to publish
- Lack of knowledge/skills
- Time constraints

❑ Systemic: Academic

- “Publish or perish” metrics
- Inadequate supervision
- Institutional incentives
- Funding rules

❑ Systemic: Social and Cultural

- Culture of deference: “The professor knows best.”
- Quid pro quo: “You scratch my back, and I’ll scratch yours.”
- “Old boys networks” (nepotism, preferential treatment of in-group members)
- **Collusion and complicity**

BUT ALSO

- Social cohesion: “It’s good to help out others.”

Individual Misconduct: “FFP”

❑ Falsification

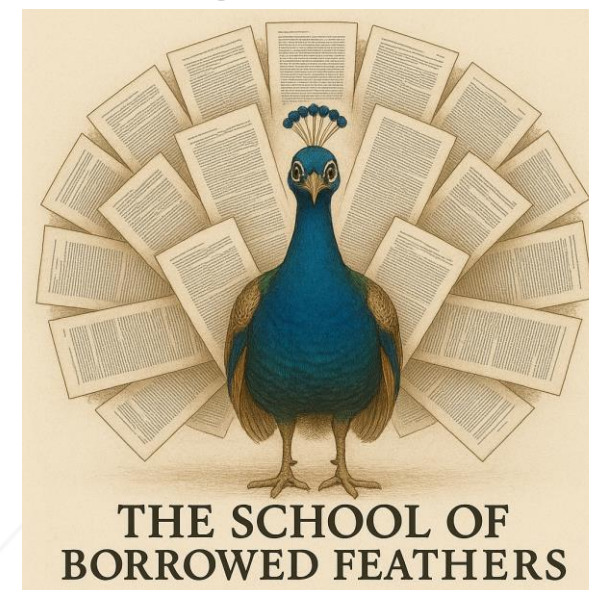
“Falsification is **manipulating** research materials, equipment, images, or processes, or changing, omitting, or suppressing data or results without justification.”

❑ Fabrication

“Fabrication is making up data or results and recording them as if they were real.”

❑ Plagiarism

“Plagiarism is using other people’s work and ideas without giving proper credit to the original source.”



OpenAI. (2025). ChatGPT 5 (October 16 version) [LLM]. <https://chat.openai.com/chat>.

[109] Data Falsificada (Part 1): "Clusterfake"

A.

Francesca Gino – The „Harvard“ scandal

B.

„Schön scandal“

The Following two papers have been retracted with the agreement of all authors:
Electrical properties of single crystals of rigid rodlike conjugated molecules
J.H. Schön, Ch. Kloc, R. A. Laudise, and B. Batlogg
Phys. Rev. B 58, 12952-12957 (1998)

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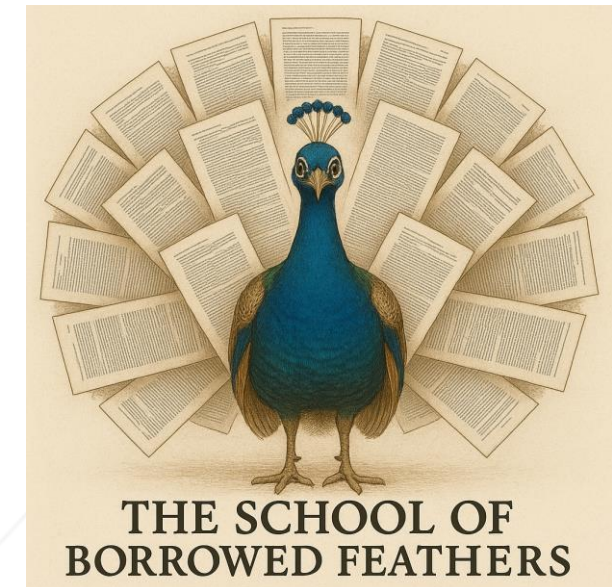
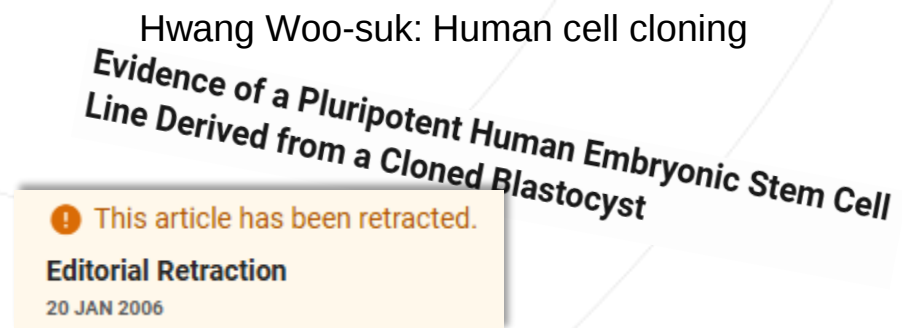
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**Závěrečné vyjádření Filozofické fakulty
UK k obvinění prof. Martina Kováře
z plagiátorství** 

Zveřejněno [14.2.2019](#)

Etická komise FF UK potvrdila, že se prof. Martin Kovář dopustil plagiátorství. Vedení FF UK se závěry komise souhlasí.

Questionable Research Practices

Cherry-Picking



Selectively using only the data or results that support your argument & ignoring those that don't.

P-Hacking

Repeatedly analyzing data until you find a statistically significant result – even if it happens purely by chance – and then treating that accidental pattern as a real discovery.

Prompt Sweeping

Undisclosed prompt or parameter sweeping on the validation set and reporting only the best run as “the” performance.

Patchwork/Mosaic Plagiarism

Taking bits of text from multiple sources and splicing them together without acknowledgement of the sources.

Learn more:

[Advice on inappropriate paraphrasing](#)

[\(Office of Research Integrity, US Dept. of Health & Human Services\)](#)

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Academic Integrity II: Systemic Issues

Systemic Issues in Research

- Ethical approval and consent,
- Conflicts of interest,
- Publishing eco-system and practices,
- Predatory practices in all domains.



Valis, J. "Help me create a picture of a cute predatory (T-Rex like) kitten." and "A small kitten with adorable big eyes, fluffy face but still with some T-Rex traits like small arms and sharp teeth." OpenAI. (2025). ChatGPT 5 (October version) [LLM].<https://chat.openai.com/chat>.

Where are you in all this?

Systemic Perspective on Academic Integrity

❑ Systemic: Academic

- “Publish or perish” metrics
- Inadequate supervision
- Institutional incentives
- Funding rules

**Complicity
Collusion
Coercion?**

❑ Systemic: Social and Cultural

- Culture of deference: “The professor knows best.”
- Quid pro quo: “You scratch my back, and I’ll scratch yours.”
- “Old boys networks” (nepotism, preferential treatment of in-group members)

BUT ALSO

- Social cohesion: “It’s good to help out others.”

Any Tips?

- Resist the temptation to take shortcuts.
- Resist if you can. You do have options.

Systemic Issues: Ethical Approval in Research

- ❑ Regulations tend to be **country-specific**, but international & EU guidelines/bodies as well: e.g., the European Network of Research Ethics Committees (EUREC), the European Network of Research Integrity Offices (ENRIO).
- ❑ Approval bodies **mostly research-institutions based**, but sometimes independent:
 - Czechia: “etická komise” (ethics committee), e.g., CTU Committee for Ethics, UCT Ethics Committee, Komise pro etiku vědecké práce (CAS), and others,
 - GB: ethics committee (EC) – also known as research ethics committee (REC),
 - US: institutional review board (IRB) – also known as ethical review board (ERB) or research ethics board (REB).
- ❑ Based on **human rights declarations, conventions and accords**:
 - Nuremberg Code, 1948 Geneva Declaration, 1964 Helsinki Declaration, 1978 Belmont Report,
 - Oviedo Convention on Human Rights and Biomedicine,
 - Other legislature.

Legal Background to Ethical Approval of Research

❑ International

- Convention on Human Rights and Biomedicine (also known as the Oviedo Convention)
- CIOMS (Council for International Organizations of Medical Sciences)
- International guidelines on good governance practice for research institutions
- International Ethical Guidelines for Biomedical Research Involving Human Subjects
- The Prepared Code. A Global Code of Conduct for Research During Pandemics

Learn more about codes and guidelines:

- ❑ The Embassy of Good Science: Resources (an independent community platform)
- ❑ Czech law: Etický rámec výzkumu (Czech Ministry of Education “Research Ethics Framework”)

❑ EU

- EUREC Codes and Guidelines for all academic disciplines (**comprehensive**)
- EC: The European Code of Conduct for Research Integrity
- European Research Council Ethics Guidance
- ALLEA: The European Code of Conduct for Research Integrity

Systemic Issues: Funding and Conflicts of Interest

❑ RESEARCH FUNDING

- **GAČR:** Code of Ethics for Project Evaluators, Code of Ethics for Project Researchers (Czech only)
- National Institutes of Health (US): detailed policy on conflict of interest
- UK Research and Innovation (UK): policy on conflict of interest; UKRI detailed guidance
- National Institute for Health Care and Research (UK): policy on conflict of interest

❑ ACADEMIC PUBLISHING = PUBLISHER-SPECIFIC POLICIES (examples)

- **Elsevier:** What are Conflict of Interest Statements, Funding Source Declarations, Author Agreements/Declarations and Permission Notes?
- **Taylor & Francis:** What is a conflict of interest?
- **Springer:** Competing Interests

❑ PUBLISHING GUIDELINES IN COMPANY-SPONSORED BIOMEDICAL RESEARCH

- International Society for Medical Publication Practitioners: Good Publication Practice guidelines (GPP 2022)

Can't We Just Trust Scientists?

The Tuskegee syphilis study in the US (1932–1972)

The thalidomide scandal (1950s to 1960s)

1994 Anti-HIV drug testing in Zimbabwe

1996 Meningitis drug testing in Nigeria

Pediatricians accepting funding from baby milk powder producers

It seems we just can't.

Ethical Issues in Academic Publishing

❑ Individual: Authors

- Authorial contribution(s): CRediT
- Data management
- Citation, self-citation, plagiarism
- Multiple submissions
- Recycling, piecemeal publication (“salami slicing”)
- Undisclosed conflicts of interest/funding
- Misrepresentation of consent
- Copyright: third-party content

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- Copyright: third-party content

Learn more:

- COPE Guidance
- NTK Guide to Predatory Journals

❑ Predatory Publishers

- **Misrepresentation of quality:**
 - Misrepresentation of editorial board members
 - Fake claims about impact/indexing
- **Faulty procedures/quality control:**
 - Non-existent or minimal peer review
- **Unethical business practices:**
 - Aggressive solicitation
 - Unclear fees for publication
 - Punitive fees for withdrawal/retraction
- **Disrespecting authorship:**
 - Pirating content without author’s knowledge or permission

Journal Not Indexed in Web of Science or Scopus!

IJNHCR Journal

Home Aims & Scope Board Members Articles ▾ Guidelines ▾ Policies ▾ [Submit Manuscript](#)

International Journal of Nursing and Health Care Research



International Journal of Nursing and Health Care Research

ISSN: 2688-9501

Impact Factor: 4.64

Research

Review

Case Reports



GAVIN PUBLISHERS

Brief Reviews

Editorials

Research Highlights

Abbreviation	IJNHCR
ISSN	2688-9501
Publication Type	Peer Reviewed
Publishing Model	Open Access
Impact Factor	4.64 ▲
DOI Prefix	10.29011/2688-9501
Journal Category	Nursing Journals



International Journal of Nursing and Health Care Research

Stolic S, et al. Int J Nurs Health Care Res 12: 1129.

DOI: 10.29011/2688-9501.101129

Research Article

An Integrative Review of Medication Calculation Assessment Strategies for Student Nurses

Snezana Stolic^{1*}, Elizabeth Emmanuel², Amanda Gore¹

¹School of Nursing, Midwifery and Indigenous Health Charles Sturt University, Wagga Wagga, New South Wales, Australia

²School of Health and Human Sciences Southern Cross University, Southern Cross Drive, Bilinga, Queensland, Australia

*Corresponding author: Snezana Stolic, Assistant Professor, School of Nursing, Midwifery and Indigenous Health Charles Sturt University, Boorooma St, Wagga Wagga, NSW, 2650, Australia

Citation: Stolic S, Emmanuel E, Gore A (2019) An Integrative Review of Medication Calculation Assessment Strategies for Student Nurses. Int J Nurs Health Care Res 12: 1129. DOI: 10.29011/2688-9501.101129

Received Date: 17 November, 2019; Accepted Date: 02 December, 2019; Published Date: 06 December, 2019

Abstract

Administering the correct medication dose is an important nursing competency. To perform an integrative review comparing two or more assessment strategies used to assess student nurse's skills in calculating medication dosages. A literature searches of six health care databases, ScienceDirect, Cumulative Index of Nursing and Allied Health, PUBMED, PROQUEST, MEDLINE and Cochrane's library to identify journal articles. Research articles on safe medication calculation assessment strategies were considered for inclusion in this review. The search yielded 1663 papers of which 9 met the inclusion criteria. A sample size of 1274 student nurses from the nine papers were included in the final review. Assessments of medication calculation competency included medication dosage calculation and administration exams and simulation assessments. Traditional medication calculation tests are common practice among educators to assess medication calculation skills and have been found to predict student nurse's numeracy skills. However, simulation-based assessment or authentic online assessment may also be used to test student's performance on clinical placement; few studies into this emerging area exist; more rigorous



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Published: Dec 6

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Each and every manuscript submission costs us (Gavin Publishers) a certain amount along with overhead cost during processing. Once a manuscript's peer review process is completed (which can often happen within a week), and it has been worked into a journal issue, we have incurred costs on our end that need to be reimbursed.

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- The title of the manuscript
- The name of the corresponding author
- The reason for withdrawing the manuscript

Once the request has been received, the editorial office will confirm the withdrawal with the corresponding author.



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Hello Mr./Ms.

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Your manuscript submitted to **International Journal of Nursing and Health Care Research** on **UTC**.

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🕒 Your submission time has exceeded **24 hours**.

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✕ Close

Individual/Systemic Misconduct: It All Adds Up

Data and Authorship

- Fabricated data
- AI-generated text
- Recycled or doctored figures

Publishing

- “Citation brotherhoods”
- Coercive citation practices
- Mutual journal citation pacts

Predatory Publishing

- Falsified peer reviews
- Monetizing OA without editorial oversight

Retractions on
the rise:

Efficacy?
Trust?

Grants and Funding

- Fabricating initial data
- Double-funding a project
- Misreporting expenses
- Inflating publication count

Institutions

- Metric gaming: fake affiliations, citing internal work
- Lax oversight
- Misconduct cover-ups
- Resource misallocation

Retractions

Retraction Watch

Learn more: COPE Retraction Guidelines

SUPPORT RETRACTION WATCH

RETRACTION WATCH LISTS

The Retraction Watch
Leaderboard

Retractions by Nobel Prize
winners

Top 10 most highly cited re-
tracted papers

The Retraction Watch Mass
Resignations List

The Retraction Watch Hijacked
Journal Checker

Papers and peer reviews with
evidence of ChatGPT writing

Retracted coronavirus (COVID-
19) papers



Dear RW readers, can you spare \$25?

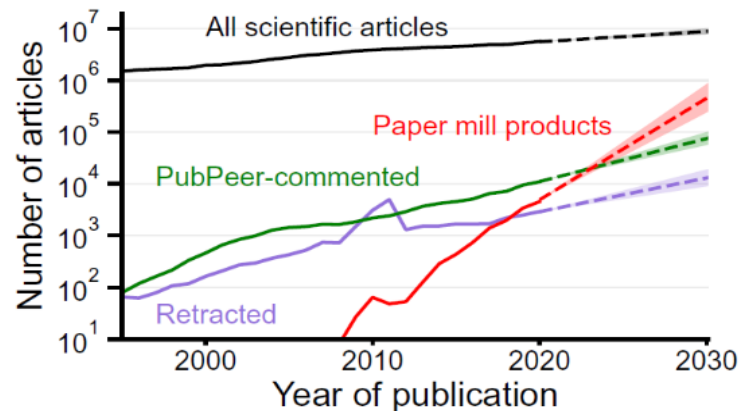
The week at Retraction Watch featured:

- Duke scientists lose eight papers for alleged image manipulation
- Sleuth unearths citation, authorship issues at earth sciences journal
- Former student who ran paper mill up to 11 retractions
- Journal issues speedy retraction in less than a day for 'inadvertent mistake'
- Wiley retracts study stolen by reviewer, following Retraction Watch

- Van Noorden, R. (2023). More than 10,000 research papers were retracted in 2023—A new record. *Nature*, 624(7992), 479–481. <https://doi.org/10.1038/d41586-023-03974-8>
- Van Noorden, R. (2025). Exclusive: These universities have the most retracted scientific articles. *Nature*, 638(8051), 596–599. <https://doi.org/10.1038/d41586-025-00455-y>

Observed and Predicted Rise of Paper Mill Publications

Fighting coordinated publication fraud is like ‘emptying an overflowing bathtub with a spoon,’ study coauthor says



The observed and forecasted growth rate of paper mill papers outpaces corrective measures, a new study finds. *R. Richardson et al./PNAS 2025*

R.A.K. Richardson, S.S. Hong, J.A. Byrne, T. Stoeger, & L.A.N. Amaral, The entities enabling scientific fraud at scale are large, resilient, and growing rapidly, *Proc. Natl. Acad. Sci. U.S.A.* 122 (32) e2420092122, <https://doi.org/10.1073/pnas.2420092122> (2025).

Whistleblowing in Science

- Asymmetry of power
- High stakes, especially in clinical trials, infrastructure projects, and life sciences
- Investigative difficulties: external scrutiny desirable, but access to data?

Tips? Protect yourself:

- Create a detailed paper trail.
- Find allies, seek advice & help.

Further guidance:

- ENRIO Handbook on Whistleblower Protection in Research
- The Whistleblower Protection Act (Czech original: Zákon č. 171/2023 Sb., zákon o ochraně oznamovatelů)

Learn more: Reardon, S. (2024). Whistleblowing in science: This physician faced ostracization after standing up to pharma. *Nature*. <https://doi.org/10.1038/d41586-024-02743-5>

nature

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CAREER FEATURE | 20 August 2024 | Correction [27 August 2024](#)

Whistleblowing in science: this physician faced ostracization after standing up to pharma

Physician scientist Nancy Olivieri describes hard-won lessons from decades of fighting for scientific integrity.

By [Sara Reardon](#)



[Find a new job](#)



Get Help: Ombudspersons at Czech Institutions

Not all Czech universities/faculties or research bodies have this office yet, but many do.

Consultations are confidential.

Examples:

- CTU (ČVUT): Individual faculties have their own ombuds-offices. E.g., FJFI Ombudsman, Faculty of Architecture Ombudswoman, FEE CTU Ombudsperson
- UCT (VŠCHT): <https://www.vscht.cz/skola/socialni-bezpeci>
- CUNI Ombudsman; CUNI ombuds-office web pages;
- Other ombudspersons at Charles University faculties
- MUNI: <https://www.muni.cz/o-univerzite/ochrana-prav>
- FF UP: <https://ombudsman.ff.upol.cz/>
- TUL: <https://www.tul.cz/univerzita/organy-tul/ombudsman/>
- JČÚ: <https://www.jcu.cz/cz/univerzita/organy/eticka-komise-ju/ombudsman-jihoceske-univerzity-v-ceskych-budejovicich>

Learn more:

Join our next
Talks & ShareSpace for PhD+
session on ombudspersons:

10 December 2025



Dilemma Game

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Dilemma

Change for the good?

My main supervisor tells me, after reading a rough draft of my paper, that I drastically need to change my methodology. The approach I pursued was recommended by a famous, external member of my committee who will probably employ me as postdoc after I have defended my thesis. What do I do?

Erasmus University Rotterdam
Make it happen.



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Option

- A** I inform the external committee member about the change.
- B** I work out the paper with the changed methodology and send it to my supervisor and the external committee member for feedback.
- C** I ask my supervisor to discuss the matter with the external committee member and let them decide.
- D** I tell my supervisor that I consider the opinion of the external member of higher value. I adhere to my original methodology.

Learn more:

[How to play the game on your phone.](#)

Next Dilemma Game session at NTK:

14 Jan 2026

[Subscribe](#) to our ECR newsletter to learn more.

Learning Outcomes

☐ Understand:

- Best practice vs. types of misconduct in academia/research.

☐ Know where to find more information about

- Institutional codes of ethics,
- Legal resources on research ethics and ethical approval,
- Ethical requirements in academic publishing,
- Protection of whistleblowers in academia and research.

Further Resources

❑ AI Ethics

- EC Living guidelines on the responsible use of generative AI in research
- University of Helsinki “Ethics of AI” online course: available from <https://ethics-of-ai.mooc.fi/>
- National Information Centre for European Research: Horizon Europe e-learning
- **European Research Area Forum:**
Guidelines on the responsible use of generative AI in research

❑ NTK Guides and Resources

- Dilemma Game workshop
- NTK Guide to AI tools for research
- NTK Guide to Predatory Journals
- Research Article Self-Check Questions
- NTK Newsletter for Early Career Researchers

❑ NTK Consultations

- Individual
- Free
- In person and online



NTK Information Support Team



Contact us at **info@techlib.cz**

Contacts

Thank you for your attention. Any questions?

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