



publicationethics.org

CREATING A CULTURE OF PUBLICATION INTEGRITY TOGETHER

Dr Trevor Lane, COPE
Forum on good publication practices
University of Macau, 2 December 2022

PRESENTER: Trevor Lane, MA, DPhil

Affiliations

- Trustee & Council Member, Committee on Publication Ethics
- Research Enhancement & Development Consultant, City University of Hong Kong
- Trainer, Nature Research Academies, Springer Nature
- Education Consultant, AsiaEdit

<https://publicationethics.org/about/council/trevor-lane>

Good publication practices

- DeTora LM et al. **Good Publication Practice (GPP) Guidelines for Company-Sponsored Biomedical Research: 2022 Update.** [Ann Intern Med. 2022 Sep;175\(9\):1298-1304.](#) [Open Access]
- Lane T. **Journal publication ethics and implications for life science researchers: a COPE perspective.** [Emerg Top Life Sci 2018 Dec 21;2\(6\):763-767.](#) [Subscription]

Acknowledgement: Some slides in this presentation are based on previous COPE presentations: [eg1](#), [eg2](#), [eg3](#), [eg4](#), [eg5](#)



CREATING A CULTURE OF PUBLICATION INTEGRITY TOGETHER: From *'Publish or Perish'* to *'Publish and Nourish'*

Agenda

- About COPE
- Research & publication culture:
 - Publish or perish?
 - Publish and flourish?
 - Publish and nourish
- Authorship issues



ABOUT COPE



- Non-profit established in 1997; operated, managed, and governed by small group of paid employees, with volunteers on **Trustee Board and Council**
- **>13,500 members** from 97 countries:
 - primarily editors of scholarly journals; also:
 - universities and research institutes
 - associated individuals and companies (including editorial and publishing support services)
- COPE brings together all those involved in scholarly research and its publication to strengthen the network of support, education, and debate in publication ethics:
Creating a culture of publication integrity together

COPE PURPOSE

“ Educate and advance knowledge in methods of safeguarding the integrity of the scholarly record. ”

COPE VISION

“ To create a future in which ethical practice in scholarship is the cultural norm. ”

OUR MISSION

COPE's mission is built around three core principles:



SUPPORT

Providing practical resources to educate and support our members



LEADERSHIP

Providing leadership in thinking on publication ethics



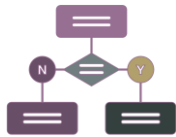
VOICE

Offering a neutral, professional voice in current debates

COPE ACTIVITIES & RESOURCES



- 100+ Forums (members only) held since 1997; 648 cases with advice on [COPE's website](#)



- [Flowcharts](#): step by step guides



- [Guidelines](#): formal policy documents



- Community discussions & [discussion documents](#) on emerging issues



- [Webinars](#) and videos of COPE speakers at events



- COPE seminars (members only) held globally



- Joint founder of [Principles of Transparency and Best Practice in Scholarly Publishing](#)



- eLearning (members only)

COPE CORE PRACTICES

Policies and core practices required to reach the highest standards in publication ethics:



Allegations of misconduct



Authorship and contributorship



Complaints and appeals



Conflicts of interest/
Competing interests



Data and reproducibility



Ethical oversight



Intellectual property



Journal management



Peer review processes



Post-publication discussions and corrections

Systematic manipulation of the publication process

<https://publicationethics.org/sites/default/files/publication-process-manipulation-cope-flowchart.pdf>

Also see:
COPE Webinar 2022: [Managing paper mills](#)

COPE

ENGLISH

FLOWCHARTS AND INFOGRAPHICS

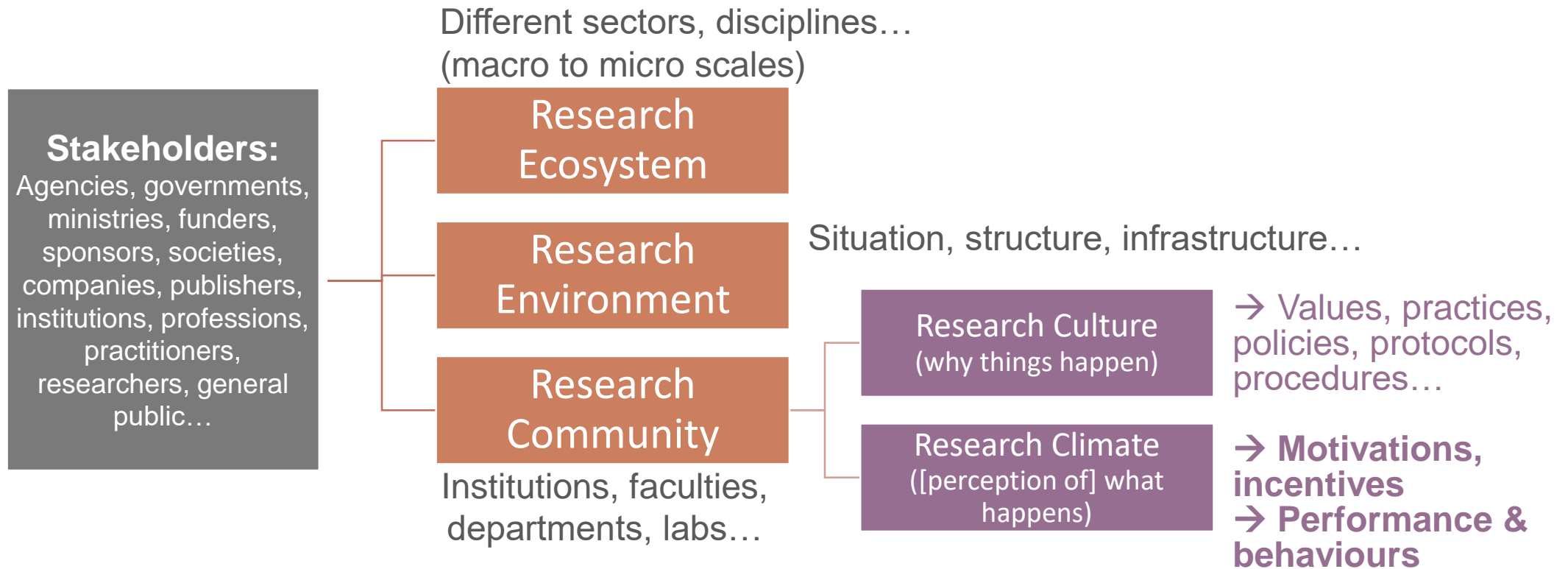
SYSTEMATIC MANIPULATION OF THE PUBLICATION PROCESS

Contents



- 1 Introduction
Contents
- 2 Definition of systematic manipulation of the publication process
Figure 1. An example of peer review manipulation
Figure 2. An example of authorship for sale
- 3 Suspicious submission patterns
Infographic 1
Suspicious patterns in the content of manuscripts/articles
Infographic 2

RESEARCH & PUBLISHING LANDSCAPE



PUBLISH OR PERISH?

Publish or perish; publish or punish

- **Quantity** > quality
- **Publication** as proof of research, basis of rankings
- **Publication** as job performance / productivity
- **Publication** to get/keep job, get promoted...
- **Prestige** / reputation / impact factor of journal reflects on institution / researcher / research

Publish and perish

- **Poor quality**; poor choice of publication venue: nobody reads/cites
- Publication might prevent **patenting**
- **Retractions**:
 - Systematic carelessness or disinformation (inc. biased/selective citations, fake references/quotes)
 - Unethical practices

- Authorship issues; hiding sponcon (sponsored content), conflicts of interest
- Salami slicing (least publishable units)
- Duplicate/redundant publications, multiple submissions
- Research misconduct (FFP: fabrication, falsification, plagiarism)
- Questionable / detrimental research practices; grant fraud
- Predatory journals / conferences (**CON**-ferences); nonsense/fake/ plagiarised papers

But see: **ThinkCheckSubmit.org**,
ThinkCheckAttend.org



25 YEARS OF PUBLICATION ETHICS

PUBLISH AND FLOURISH?

- **Journal impact factor** for job performance / productivity / quality
 - **Lists** of prestigious journals for performance, job/promotion, prizes, bonuses
 - **Article citations, authorship position** for job performance / productivity / quality
 - **Highly cited** researcher rankings & awards
 - **Alternative** metrics
 - Wider **dissemination** of articles (Open Access)
 - Funders recognise posting of results in **preprints**
 - Encouragement of **social networks/media**, post-publication discussion & debate
- Questionable/predatory editorial & publishing support services
 - Fake peer review rings; fake journal special issues
 - Citation manipulation
 - Excessive author/journal self-citation
 - Honorary/mutual citations
 - Coerced/coercive citations
 - Journal citation stacking, cartels/rings
 - Social media manipulation, inc. fake accounts/activity
 - Paper mills, authorship for sale
- But see: **San Francisco Declaration on Research Assessment**
<https://sfdora.org/>

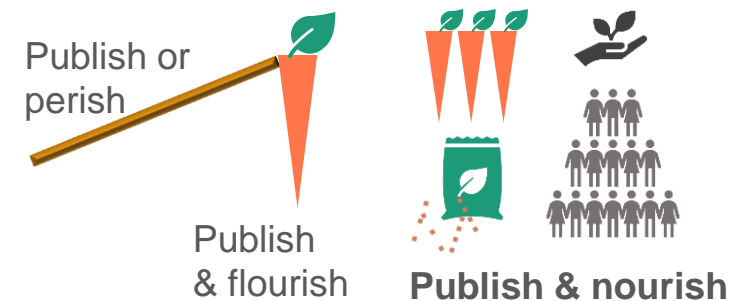
PUBLISH AND NOURISH

- **Quality** > quantity
- **Transparency**, access (Open Research/Science); publish **negative** results
- **Peer review** > metrics; narrative CV > publication lists
- Variety of **sharable research outputs** (data, protocols)
- **Access** to code & raw data: Open Data; [FAIR](#) Principles (Findable, Accessible, Interoperable, and Reusable)
- **Wider** access (plain language summaries, infographics, video abstracts, graphical abstracts, translations)
- **Knowledge exchange / transfer** as third mission; **research impact** as direct/indirect societal (non-academic) impact added to university/national assessments
- **DEI** (diversity, equity, inclusion) or **IDEA** (inclusion, diversity, equity, accessibility)...

Do good as well as do well



<https://sdgs.un.org/goals>



SOME RESEARCH & PUBLICATION PROBLEMS

FFP



Fabrication



Falsification



Plagiarism

- **Reproducibility** (repeat analysis)
- **Replicability** (repeat study)
- **Generalisability**

- Screen, detect, verify raw/original data
- Respond to allegations, investigate with institution
- Correct/retract, inform institution of misconduct
- Educate, support, train, prevent

Questionable Research Practices

QRP



Unauthorized data collection / use



Underpowered, faulty methods



Sampling / confounder bias



Extending, ending early, censoring



Cherry picking



Fishing



Trawling, dredging



P hacking



HARK

Questionable Publishing Practices

QPP



Poor record keeping / reporting



Image distortion, exaggeration



Misinterpretation, spin



Unauthorized publication / sharing



Hiding, withholding data / info



Supporting predatory journals



Salami slicing



Redundant / duplicate publication



Selective publication, file drawer problem



Not correcting errors

Authorship matters

- Record of attribution
- Moral and legal rights
- Responsibility for (your/all) content
- Accountability in investigations
- Shapes academic career
 - Expertise & track record
 - Collaborations, networks
 - Funding, awards, hiring, promotion
- Individual / institutional reputation



- Of **134 authorship cases** brought to COPE Forum up to 2019:
 - **questionable changes** to author list after submission (27%)
 - **ghost, guest, or gift** authors (19%)
 - submission **without knowledge** of one or more authors (19%)
 - **disputed author order** (7%)
 - **forged paperwork** (7%)

- often involves other problems (duplication, salami slicing, IP theft, conflicts of interest)

<https://publicationethics.org/news/wcri-2019-responsible-authorship-panel>

WHOSE BYLINE IS IT ANYWAY?

“Author-A et al
(2022) reported
that...”

Journal Name, July 2022 (Vol 7)

Journal article title

A Author, B Author, C Author, D Author, E Author, F Author

Lead
author/writer?
Guarantor?
Corresponding
author?

Corresponding author?
(Administrative task before/after publication)

Amount of work? Value of contribution? Equal contribution?
Alphabetical order? Reverse alphabetical order?
Random order?
Explain in footnote

Senior author?
Group head?
Guarantor?
Corresponding
author?

Selected for a Viewpoint in Physics
 PHYSICAL REVIEW LETTERS
 PRL 114, 191803 (2015) week ending 15 MAY 2015

Combined Measurement of the Higgs Boson Mass in pp Collisions at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS Experiments

G. Aad *et al.**

(ATLAS Collaboration)[†]
 (CMS Collaboration)[‡]
 (Received 25 March 2015; published 14 May 2015)

A measurement of the Higgs boson mass is presented based on the combined data samples of the ATLAS and CMS experiments at the CERN LHC in the $H \rightarrow \gamma\gamma$ and $H \rightarrow ZZ \rightarrow 4\ell$ decay channels. The results are obtained from a simultaneous fit to the reconstructed invariant mass peaks in the two channels and for the two experiments. The measured masses from the individual channels and the two experiments are found to be consistent among themselves. The combined measured mass of the Higgs boson is $m_H = 125.09 \pm 0.21$ (stat) ± 0.11 (syst) GeV.


DOI: 10.1103/PhysRevLett.114.191803

PACS numbers: 14.80.Bn, 13.85.Qk


CC BY: G. Aad *et al.* (ATLAS Collaboration, CMS Collaboration)
 Phys. Rev. Lett. 114, 191803 – Published 14 May 2015
<https://journals.aps.org/prl/pdf/10.1103/PhysRevLett.114.191803>

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J. G. Berger, ^{192,†} B. Bely, ^{192,†} S. Bely, ^{192,†} A. P. Caldeira, ^{192,†} J. Caldeira, ^{192,†} T. Caldeira, ^{192,†} G. Campesano, ^{192,†} P. Caporaso, ^{192,†} E. Caronni, ^{192,†} S. H. Carron, ^{192,†} L. A. Cerny, ^{192,†} S. M. Chatterjee, ^{192,†} V. Chertoukine, ^{192,†} S. Choudhury, ^{192,†} C. Coia, ^{192,†} G. Coia, ^{192,†} F. Cozzani, ^{192,†} M. Cozzani, ^{192,†} B. D. Cooper, ^{192,†} A. M. Cooper-Saunders, ^{192,†} T. Cornelissen, ^{192,†} M. Corradi, ^{192,†} F. Corradi, ^{192,†} A. Costa-Rocha, ^{192,†} A. Costes-Gonzalez, ^{192,†} G. Cottin, ^{192,†} G. Cottin, ^{192,†} M. J. Costa, ^{192,†} D. Costantini, ^{192,†} D. Costantini, ^{192,†} G. Cottin, ^{192,†} G. Cowan, ^{192,†} B. S. Cox, ^{192,†}
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5,154 authors



Available online at www.sciencedirect.com
ScienceDirect
 Procedia - Social and Behavioral Sciences 134 (2014) 213 – 219



Procedia
 Social and Behavioral Sciences

ICLALIS 2013

Can't live without my FB, LoL: The influence of social networking sites on the communication skills of TESL students

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1 author

Abstract

It is getting common to see two or more people sitting together at a café but not talking to each other. They are using their smart phones, tablets or laptops to browse through social networking sites (SNSs) like Facebook, Twitter, and LinkedIn. Virtual communication seems to be more favourable to certain people as compared to face-to-face communication.

<https://cyberleninka.org/article/n/158538.pdf>

JOURNAL OF INNOVATION & KNOWLEDGE 2 (2017) 155-171



Journal of Innovation & Knowledge
www.elsevier.es/jik



Empirical paper

Exploring entrepreneurial readiness of youth and startup success components: Entrepreneurship training as a moderator



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 Faculty of Economics & Muamalat, Universiti Sains Islam Malaysia, 71800 Bandar Baru Nilai, Malaysia

ARTICLE INFO **ABSTRACT**

Article history:
 Received 13 June 2016


From the behavioral perspective, this study analyzed the entrepreneurial readiness of youth in terms of opportunity identification, motivational factors, resources, and entrepreneurial

<https://www.elsevier.es/index.php?p=revista&pRevista=pdf-simple&pii=S2444569X1730001X&r=376>

Philosophy and Politics - Critical Explorations

Zhuoyao Li

Political Liberalism, Confucianism, and the Future of Democracy in East Asia



<https://link.springer.com/book/10.1007/978-3-030-43116-7>

DEFINITIONS OF AUTHORSHIP?

International Committee of Medical Journal Editors (ICMJE)

(www.icmje.org)

- 1) Substantial contributions to the **conception** or **design** of the work; or the **acquisition, analysis, or interpretation of data** for the work; **AND**
- 2) **Drafting** the work or **revising** it critically for important intellectual content; **AND**
- 3) Final approval of the version to be published; **AND**
- 4) Agreement to be accountable for all aspects of the work in ensuring that questions related to the accuracy or integrity of any part of the work are appropriately investigated and resolved.

“PNAS”, McNutt et al, 2018

(<https://doi.org/10.1073/pnas.1715374115>)

- 1) Each author is expected to have made substantial contributions to the **conception** or **design** of the work; or the **acquisition, analysis, or interpretation of data**; or the **creation of new software** used in the work; **OR** have drafted the work or substantively revised it;
- 2) **AND** to have approved the submitted version (and any substantially modified version that involves the author's contribution to the study);
- 3) **AND** to have agreed both to be personally accountable for the author's own contributions and to ensure that questions related to the accuracy or integrity of any part of the work, even ones in which the author was not personally involved, are appropriately investigated, resolved, and the resolution documented in the literature.

DEFINITIONS OF NON-AUTHORSHIP?

ICMJE (www.icmje.org)

Contributors who meet fewer than all 4 of the above criteria for authorship should not be listed as authors, but they should be **acknowledged**. Examples of activities that alone (without other contributions) do not qualify a contributor for authorship are **acquisition of funding; general supervision of a research group or general administrative support; and writing assistance, technical editing, language editing, and proofreading...**

...obtain written permission to be acknowledged from all acknowledged individuals.

UNDERLYING PROBLEMS?

- **General**

- **Differences** in authorship criteria, weighting, thresholds in groups, institutions, journals?
- **Who did what** & quality/quantity, record keeping, proof, relative importance?
- Perceived differences in **author order** & importance of corresponding author (joint first authors, joint corresponding authors)?

- **Institutional**

- What happens when **authors leave** institutions during drafting / submission?
- **No / unclear policies** on IP, data, thesis management (eg, student excluded from paper)?
- **Power relations**; students versus supervisors / heads (eg, supervisor added to paper)

- **Credit & appraisal systems**

- Institutions' **publication-based rules** for hiring, promotions, awards, graduation
- Institutions' **reliance** on journal impact factor (JIF), authorship position/type, metrics, quantity>quality
- **Other assessments** using JIF/citations: funder / government / world rankings

UNETHICAL OR FRAUDULENT AUTHORSHIP?



Gift authorship,
eg, for funding,
technical service,
data/materials,
supervision,
artwork



**Coerced/coercive
authorship**



Guest authorship
(name dropping of key
opinion leaders,
+/- permission)



Questionable authorship practices,
eg, reciprocating gift/guest authorship, paying, bartering,
relinquishing authorship
(demoting author to acknowledgements = ghost author)



Ghost authorship
(missing from byline)

UNETHICAL OR FRAUDULENT AUTHORSHIP?



Fake / false authorship



Forged co-authorship



Publication not authorised



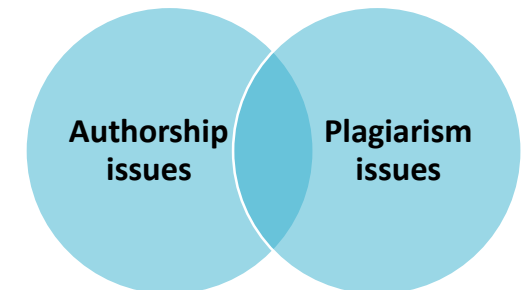
Plagiarism of text/data [*& author services to "remove plagiarism"; contract cheating to write/research*]

- **National guidelines**

- **China Association for Science and Technology 5 Don'ts (2015). DO NOT:**

- (1) Ask someone else to write the manuscript
- (2) Ask someone else to submit your article
- (3) Ask someone else to revise the research content
- (4) Give false reviewer information or manipulate peer review
- (5) Violate ethical standards and responsibility required of manuscript authors

See: [RetractionWatch](#)



UNETHICAL OR FRAUDULENT AUTHORSHIP?



Using a paper mill to write/submit fake or plagiarised/translated paper



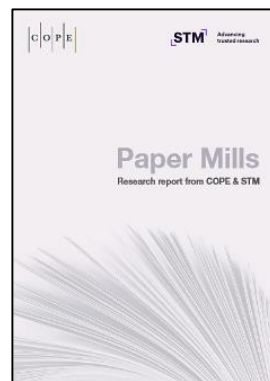
Using a paper broker to add your / other's name



Knowingly publishing in predatory journal

“...the process by which manufactured manuscripts are submitted to a journal for a fee on behalf of researchers with the purpose of providing an easy publication for them, or to offer authorship for sale”

<https://cope.onl/paper-mills>



→ [STM Integrity Hub](https://publicationethics.org/resources/research/paper-mills-research)

<https://publicationethics.org/resources/research/paper-mills-research>

<https://publicationethics.org/resources/discussion-documents/predatory-publishing>



UNETHICAL OR FRAUDULENT NON-AUTHOR CONTRIBUTORSHIP?



Guest contributorship



Fake / false contributorship



Coerced/coercive contributorship



Ghost contributorship

Ghost author if contribution was substantial?

Ghost writer
Ghost editor
Ghost proofreader
Ghost translator



Questionable contributorship practices, eg, reciprocating guests, paying, bartering



Forged contributorship



Contribution not authorised

EXTENT OF PROBLEM



- **21%** of articles in 6 medical journals in 2008 had **undeserved +/- ghost authors** (<https://www.bmj.com/content/343/bmj.d6128>)
- **41%** of first-authors of Cochrane reviews, 2016-2018, reported **gift authorship** (<https://doi.org/10.1016/j.jclinepi.2020.08.004>)
- **35.5%** of respondents reported adding an **undeserving author** (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0187394>)
- **Misrepresentation**, impersonation; usually plagiarism; could be grant/funding fraud
- Unjustified authorship is considered **research misconduct** in South Korea (*Nature News* 12 Nov 2019: More South Korean academics caught naming kids as co-authors, <https://www.nature.com/articles/d41586-019-03371-0>)
- “Legal remedies for medical ghostwriting: Imposing **fraud liability** on guest authors of ghostwritten articles”
Stern S, Lemmens T (2011), PLoS Med 8(8): e1001070.
doi:10.1371/journal.pmed.1001070.
(<https://journals.plos.org/plosmedicine/article?id=10.1371/journal.pmed.1001070>)

AUTHOR DISPUTE PREVENTION

1. Research appraisal systems:

- quality > quantity; use of peer review
- limits on # publications; no JIF in CV; 'narrative' CV, multiple output types
- evaluate contributions to research integrity, impact, 'stewardship'

2. Institutions (eg, central & faculty/discipline):

- **predict & prevent problems:** training & policies/agreements/forms on authorship / contributorship roles, IP (copyright, patents)
- record all roles (eg, **CRedit** system); scoring charts
- keep Tracked copies, notebooks
- dispute resolution procedures, research integrity officer / advisor

3. Journals:

- clear authorship & contributorship **guidelines** & criteria
- record & publish author **roles**; explain order; equal authors allowed?
- forms for author transparency, Col
- correspond with all authors
- guidelines on allegations & authorship dispute, inc. publication/process management
- open peer review vs anonymised review? publish peer reviews?
- post-publication review/discussion & amendments



CONTRIBUTOR ROLES TAXONOMY (CRedit)

National Information Standards Organization

<https://www.niso.org/publications/z39104-2022-credit>

The Contributor Roles Taxonomy's 14 roles and best practices represent a simple but comprehensive system that enables the range and nature of contributions to scholarly published output to be captured in a transparent, consistent, and structured format

Conceptualization
Data curation
Formal analysis
Funding acquisition
Investigation
Methodology
Project administration

Resources
Software
Supervision
Validation
Visualization
Writing – original draft
Writing – review & editing

- Discuss, agree, record before each project/paper
- Document contributions
- Follow publication authorship criteria
- Discuss throughout project/paper
- Review & approve final paper

AUTHORSHIP PRACTICES TO AVOID CONFLICTS

Every field of study experiences conflicts with determining authorship on published papers

Implementing the following suggestions may help avoid potential authorship disputes:

ACKNOWLEDGEMENTS
Those who assisted¹ with a manuscript but did not provide substantial contributions can be given acknowledgement.

BE PREPARED
Establish written authorship agreements with all members of the lab and other collaborators before preparing a manuscript or before starting a project.

DOCUMENT CONTRIBUTIONS
Authors should list their substantial contributions to the design of the study; the acquisition, analysis, or interpretation of data; and the contribution to the writing of the final paper.

BE CONSISTENT
Have clearly written expectations for authorship on publications and follow them.

COMMUNICATE OFTEN
As the project progresses, the authorship agreement may need to be revisited.

APPROVE THE MANUSCRIPT
All authors should review manuscripts and approve the final version.

¹This may include people who provide support such as: editorial assistance (e.g., proofreading), limited data collection, supervision of research tasks without contribution to the collection, analysis, or interpretation of data, or the writing of the publication, and technical support.

ori.hhs.gov @HHS_ORI #ORledu

WRITE ETHICALLY

FROM START TO FINISH

PREPARE

USE PRIMARY LITERATURE
Secondary sources might have misinterpreted the work.

HAVE A THOROUGH UNDERSTANDING OF YOUR SOURCES
Accurately communicate their ideas and terminology.

WRITE

AVOID SELECTIVE REPORTING
Present unbiased information by acknowledging conflicting evidence and alternative interpretations.

CITE YOUR SOURCES

DO NOT PLAGIARIZE

USE YOUR OWN WORDS AND SENTENCE STRUCTURE **MAINTAIN THE INTENDED MEANING OF THE SOURCE** **OR QUOTE VERBATIM TEXT**

PUBLISH

GIFT AUTHORSHIP IS UNETHICAL
Only include those who have made substantial contributions to a project.

AVOID GHOST AUTHORSHIP
Give proper authorship or acknowledgment to those who have contributed to a paper.

Learn more about ethical writing: ori.hhs.gov/ethical_writing

Raig, M. (n.d.). Avoiding plagiarism, self-plagiarism and questionable writing practices: A guide to ethical writing. Retrieved September 01, 2016, from http://ori.hhs.gov/ethical_writing

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INTERNATIONAL GUIDELINES & INITIATIVES

[RePAIR Guidelines](#) (Responsibilities of Publishers, Agencies, Institutions, and Researchers in Protecting the Integrity of the Research Record)

[CLUE Guidelines](#) (Cooperation & Liaison between Universities & Editors)

[COPE Guidelines](#): Cooperation between research institutions and journals on research integrity cases

Hong Kong Principles for Assessing Researchers

<https://journals.plos.org/plosbiology/article?id=10.1371/journal.pbio.3000737>

<https://wcrif.org/guidance/hong-kong-principles>

Leiden Manifesto for Research Metrics

<http://www.leidenmanifesto.org/>

Singapore Statement on Research Integrity

<https://wcrif.org/statement>

Montreal Statement on Research Integrity in Cross-Boundary Research Collaborations

<https://wcrif.org/montreal-statement/file>

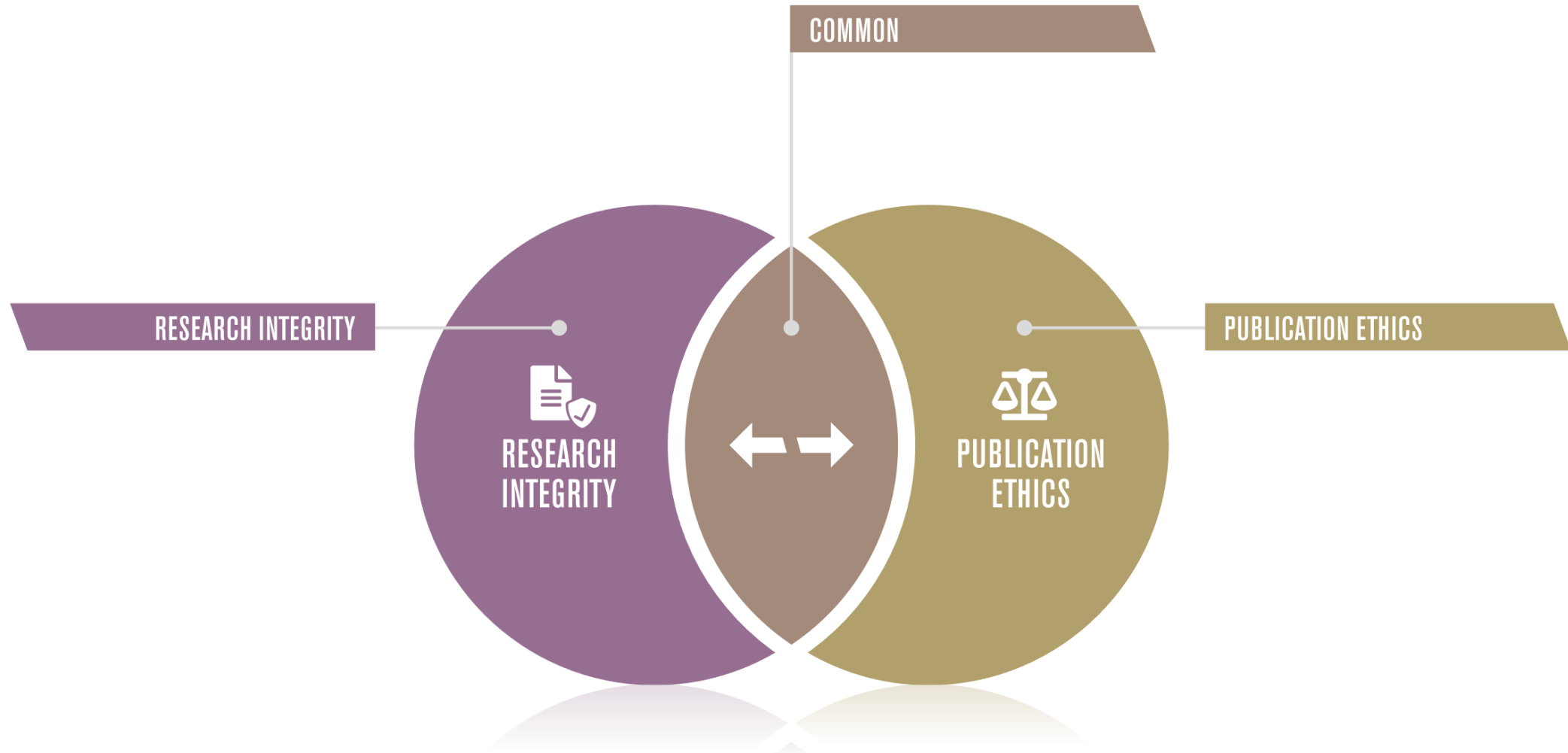
San Francisco Declaration on Research Assessment

<https://sfdora.org/>

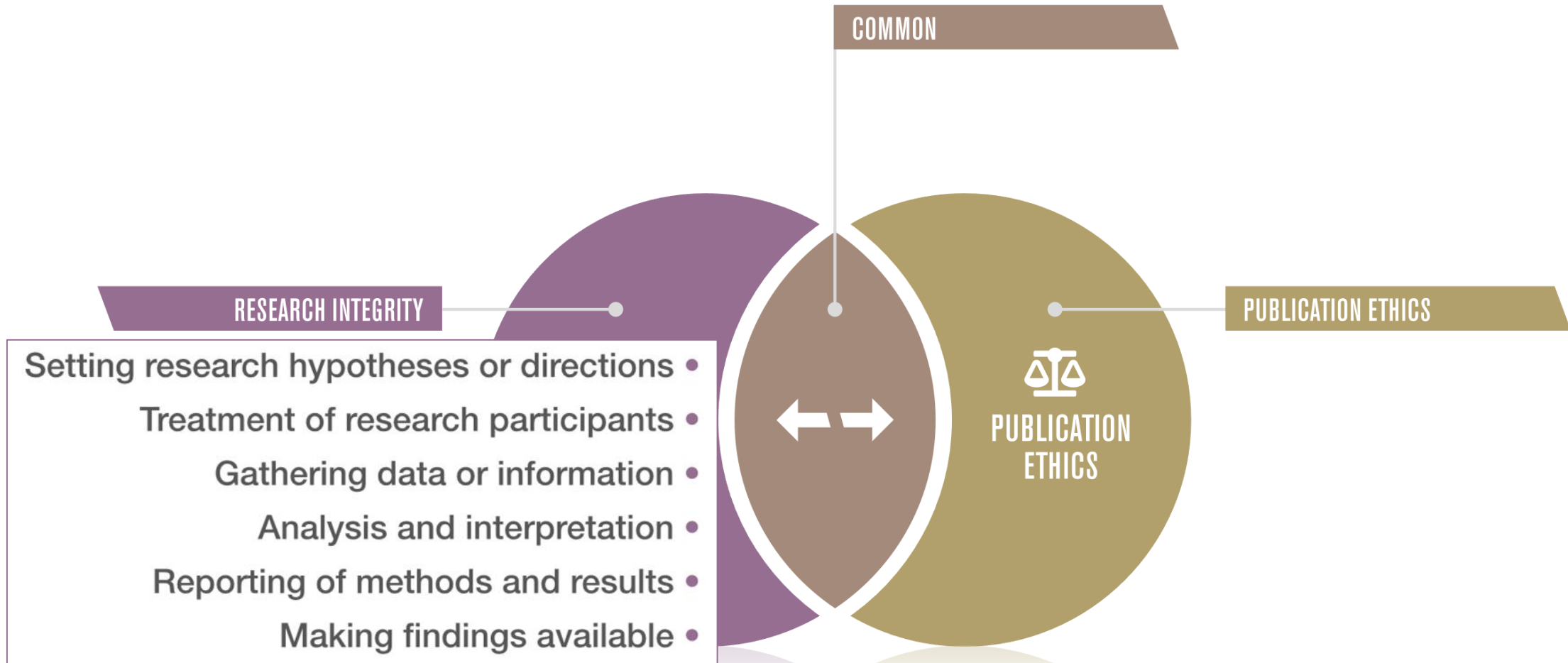
- recognises the need to improve the ways in which researchers and the outputs of scholarly research are evaluated.



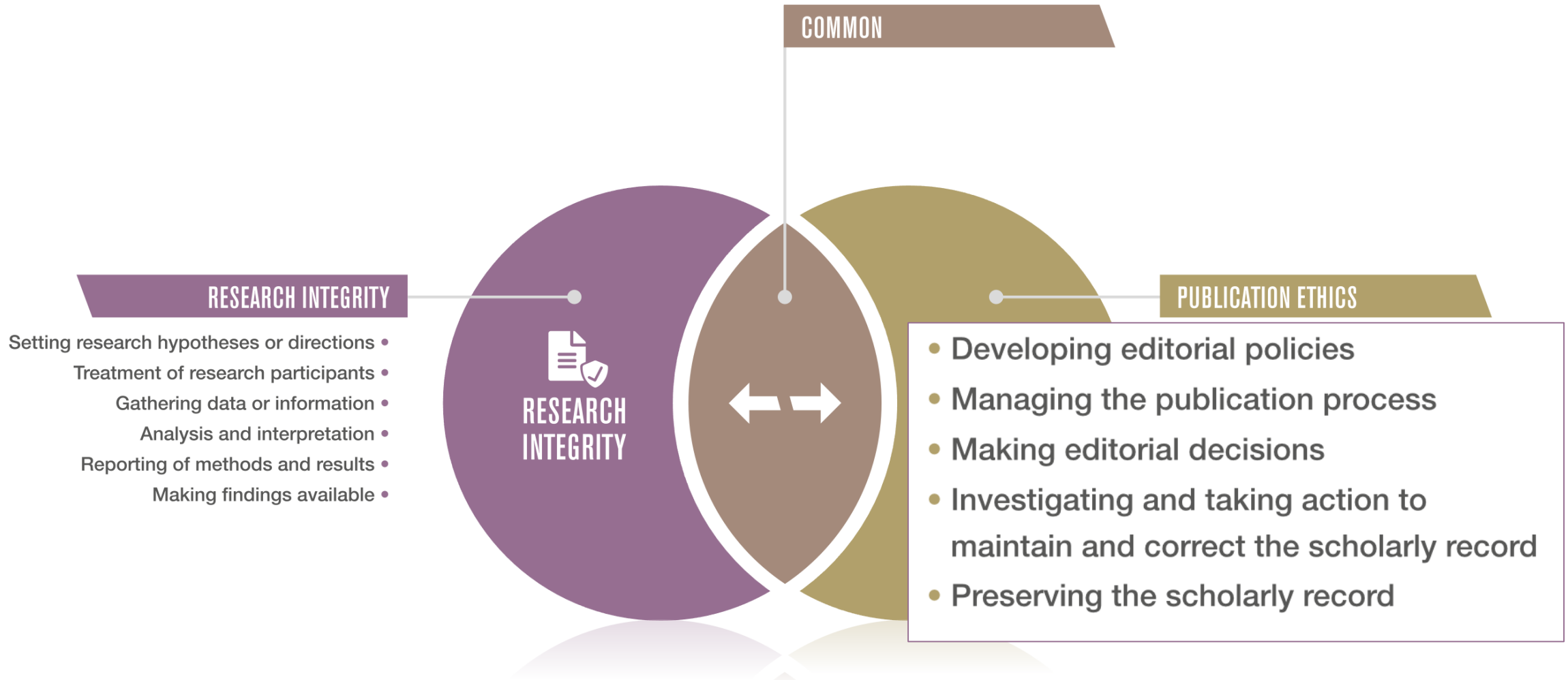
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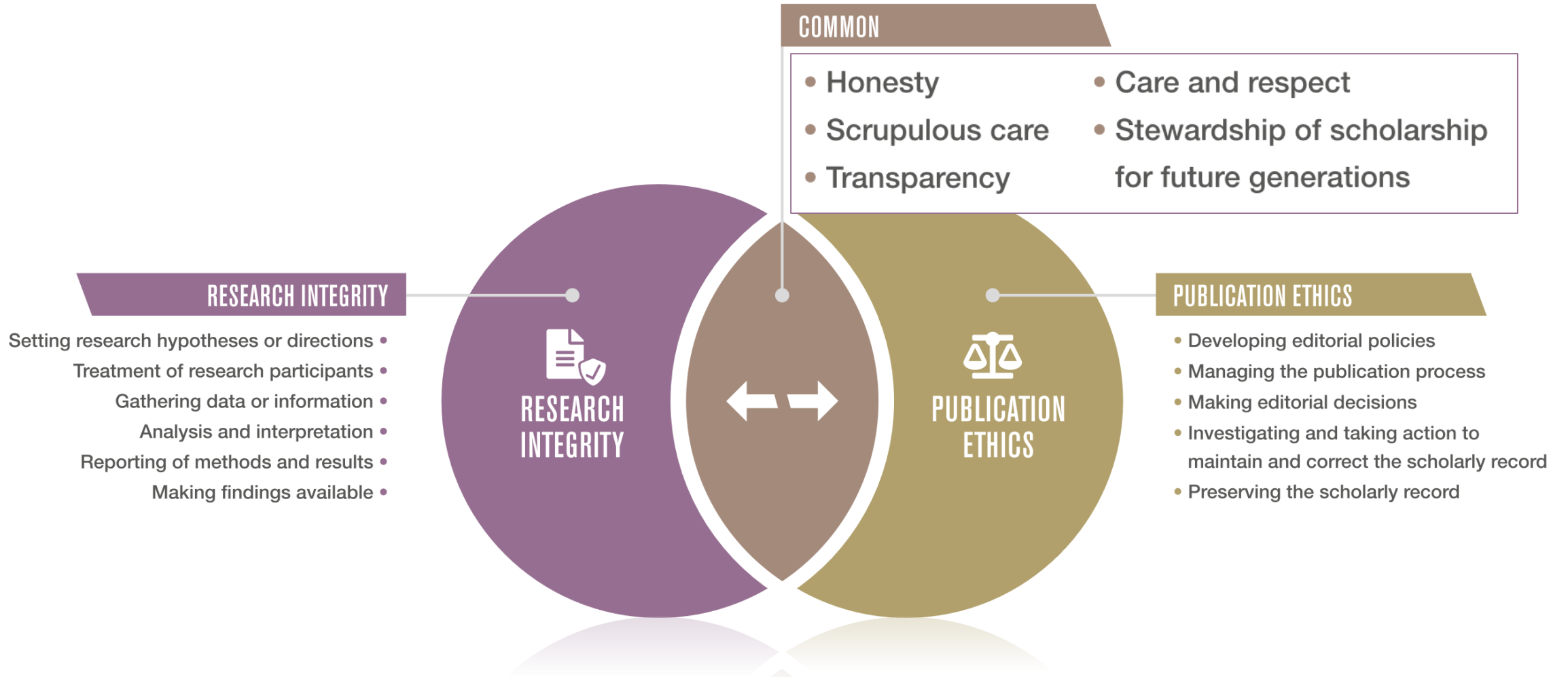
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CREATING A CULTURE OF PUBLICATION INTEGRITY TOGETHER

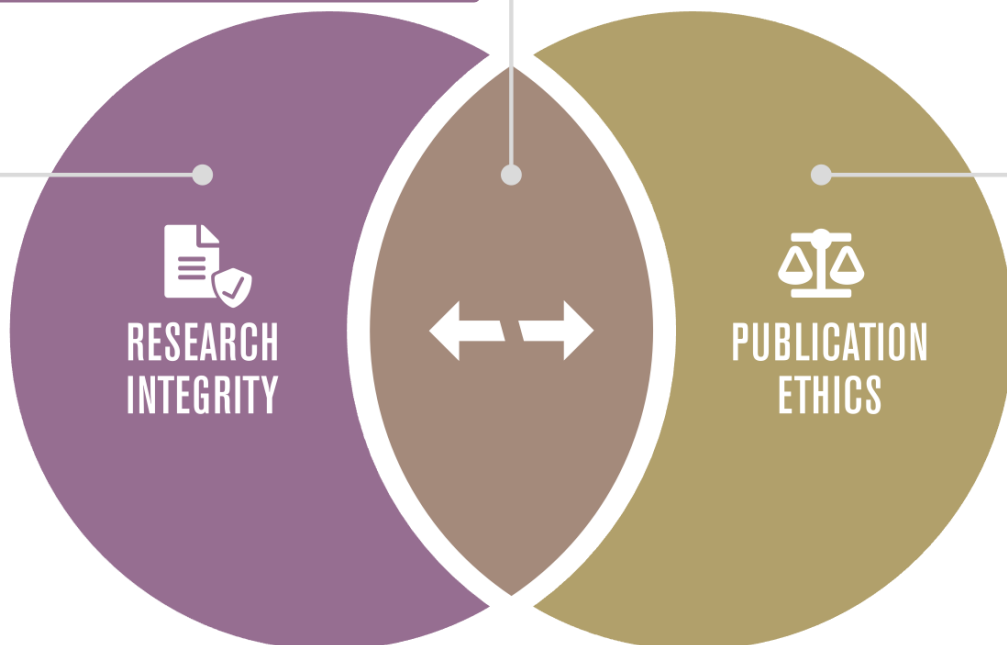
- Editors of scholarly publications
- University & research institutes
- Associated individuals/companies

COMMON

- Honesty
- Scrupulous care
- Transparency
- Care and respect
- Stewardship of scholarship for future generations

RESEARCH INTEGRITY

- Setting research hypotheses or directions
- Treatment of research participants
- Gathering data or information
- Analysis and interpretation
- Reporting of methods and results
- Making findings available



PUBLICATION ETHICS

- Developing editorial policies
- Managing the publication process
- Making editorial decisions
- Investigating and taking action to maintain and correct the scholarly record
- Preserving the scholarly record

THANK YOU

Dr Trevor Lane

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25 YEARS OF PUBLICATION ETHICS

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RESEARCH AND ITS PUBLICATION