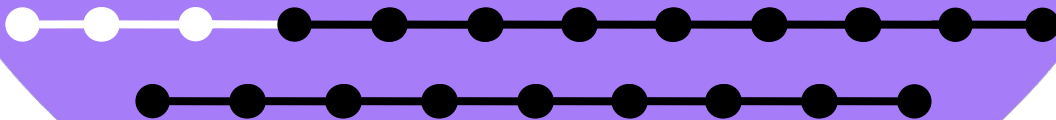




03

**ETHICS IN MEDICAL  
RESEARCH(2)**



KSU COLLEGE OF MEDICINE  
2019 - 2020

**ACKNOWLEDGMENTS**

**TEAM LEADER**

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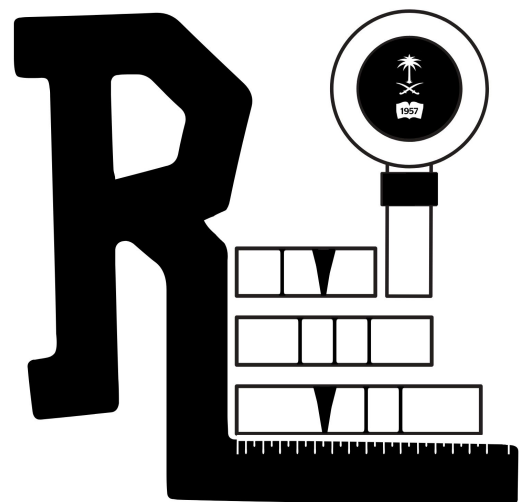
ASEEL BADUKHON

REHAM AL-HALABI

YAZEED AL-DOSSARE

**REVIEWER**

YAZEED AL-DOSSARE



A top-down view of a wooden desk. On the right side, there is a white computer keyboard. In the center, a wooden gavel with a silver metal head lies diagonally. At the top center, there is a dark-colored coffee cup. A large purple circle is overlaid on the image, with its top edge following the curve of the desk's surface.

**03**

**PUBLICATION ETHICS**

# TABLE OF CONTENTS

			<a href="#">AUTHORSHIP</a>
<a href="#">scientific integrity</a>	<b>ETHICS IN MEDICAL RESEARCH</b>		
			<a href="#">Research misconduct</a>

## LECTURE OBJECTIVES



**By the end of this lecture, I am able to:**

- Improve understanding of scientific integrity.
- Define research misconduct and its types.
- Recognize good practice in authorship and the related problems.
- Recognize the problem of conflict of interest in research.

## SCIENTIFIC INTEGRITY

- Adherence to professional values and practices, when conducting and applying the results of science and scholarship. الالتزام بالقيم و المعايير الأخلاقية و الممارسات العلمية عند اجراء البحوث و نشرها و تطبيق نتائجها.
- Active adherence to the ethical principles and professional standards essential for the responsible practice of research.

these include:

- Honesty and fairness in proposing, performing, and reporting research
- Accuracy and fairness in representing contributions to research proposals and reports
- Proficiency and fairness in peer review
- Collegiality in scientific interactions, communications and sharing of resources
- Disclosure of conflicts of interest
- Protection of human subjects in the conduct of research
- Humane care of animals in the conduct of research
- Adherence to the mutual responsibilities of mentors and trainees."

## scientific integrity

scientific integrity = following proper protocol

- objectivity
- clarity

- reproducibility
- utility

### Reproducibility

the ability of a researcher to duplicate the results of a prior study using the same materials as were used by the original investigator:

## research misconduct : سوء السلوك في مجال البحث العلمي:

expanded definition:

- Any deviation from or violation of principles of scientific integrity intentionally or as a result of negligence during design, execution and publication of scientific research
- fabrication, falsification, or plagiarism in proposing, performing, or reviewing research or in reporting research results

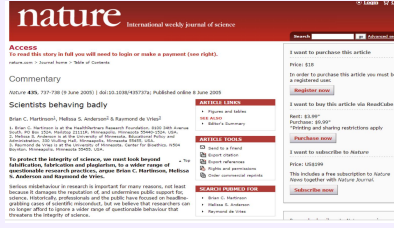
أي انحراف أو خرق لمبادئ النزاهة العلمية بقصد وتعمد أو اهمال عند اعداد البحث أو تنفيذه أو نشره، ويشمل ذلك التزيف والفبركة والانتحال وغيرها

it includes:

- **FABRICATION:** is making up data or results and recording or reporting them
- **FALSIFICATION:** is 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.
- **PLAGIARISM:** is the appropriation of another person's ideas, processes, results, or words without giving appropriate credit.

# Research misconduct

- how big is the problem?



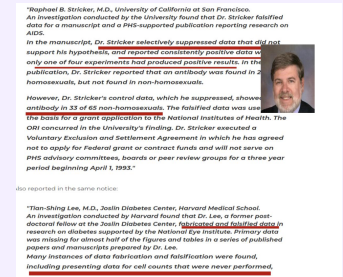
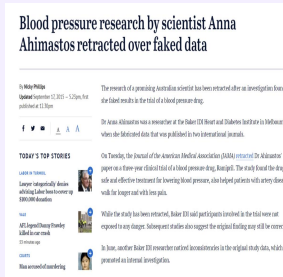
Top ten behaviours	All	Mid-career	Early-career
1. Falsifying or creating research data	6.5	6.0	6.4
2. Ignoring major aspects of human subject requirements	0.5	0.3	0.4
3. Not properly disclosing potential conflicts of interest or other potential biases	0.4	0.4	0.3
4. Publishing research results in journals or books that may be inappropriate	1.4	1.3	1.4
5. Using another's data without obtaining permission or giving due credit	1.4	1.7	1.0
6. Copying text from another's work without obtaining permission or giving due credit	1.4	1.4	1.3
7. Falsifying or creating data that contradict one's own previous research	4.0	4.0	3.1
8. Copywriting or plagiarising major aspects of human subject requirements	7.6	7.0	4.0*
9. Overstating effect size of research data or overstating interpretation	1.2	1.2	0.8
10. Changing the goals, methodology or results of a study in response to criticism or funding source	10.1	10.6	8.5***

- They concluded that Hauser had fabricated data in one study, manipulated results in multiple experiments, and incorrectly described how studies were conducted.

## Types of research misconduct

Fabrication (تلفيق البيانات واختلاقها)

Falsification (تزيف البيانات والنتائج)



Plagiarism (الانتحال والسرقه الفكرية)

- The use of others' published and unpublished ideas or words (or other intellectual property) without attribution or permission, and presenting them as new and original rather than derived from an existing source.
- Theft or misappropriation of intellectual property and the substantial unattributed textual copying of another's work." Office of Research Integrity (ORI) of the United States

Authorship and publication (قضايا التأليف والنشر)

## PLAGIARISM

1. ideas

2. texts

3. intellectual property

## SELF-PLAGIARISM

Self-Plagiarism is defined as a type of plagiarism in which the writer publishes a work in its entirety or reuses portions of a previously written text while authoring a new work

- Duplicate publication
- Redundant publication

## solutions

- BE HONEST
- USE YOUR OWN WORDS
- ACKNOWLEDGE PEOPLE
- CITE YOUR QUTES PROPERLY

## PLAGIARISM CHECKERS

### Top 20 Best Plagiarism Checker Tools in 2019: Free & Paid

Here is the list of top 20 best plagiarism checker tools for 2019:

S.No	Best Plagiarism Checker (Name & Details)	More Details
1	Grammarly Plagiarism Checker	<a href="#">Try it Now »</a>
2	WhiteSmoke Plagiarism Checker	<a href="#">Try it Now »</a>
3	ProWritingAid	<a href="#">Try it Now »</a>
4	Duplichecker	<a href="#">Try it Now »</a>
5	PlagiarismCheck.Org	<a href="#">Try it Now »</a>
6	Quetext	<a href="#">Try it Now »</a>
7	SmallSEOTools Plagiarism Checker	<a href="#">Try it Now »</a>
8	Copyleaks	<a href="#">Try it Now »</a>
9	Viper	<a href="#">Try it Now »</a>

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## AUTHORSHIP

### WHO IS QUALIFIED TO BE AN AUTHOR?

The ICMJE recommends that authorship be based on the following 4 criteria:

- Substantial contributions to the conception or design of the work; or the acquisition, analysis, or interpretation of data for the work; AND
- Drafting the work or revising it critically for important intellectual content; AND
- Final approval of the version to be published; AND
- 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.
- In addition to being accountable for the parts of the work he or she has done, an author should be able to identify which co-authors are responsible for specific other parts of the work. In addition, authors should have confidence in the integrity of the contributions of their co-authors.

الضابط في أحقية التأليف:

- أن يشارك الباحث مشاركته فعالة في البحث وان تكون له مساهمة فكرية علمية جوهرية وذلك في مراحل البحث أو بعضها مثل تصميم الدراسات البحثية والحصول على البيانات وتحليلها وتفسيرها
- كتابة مسودة الورقة العلمية الأولى أو مراجعتها النقدية من حيث محتواها الفكري والعلمي
- الموافقة النهائية على النسخة التي يراد نشرها
- الموافقة على أن يكون مسؤولاً مسؤولة كاملة عن محتوى الورقة العلمية ودقة المعلومات المدونة فيها وعدم وجود أي امر يخل بالنزاهة العلمية

## PROBLEMS WITH AUTHORSHIP

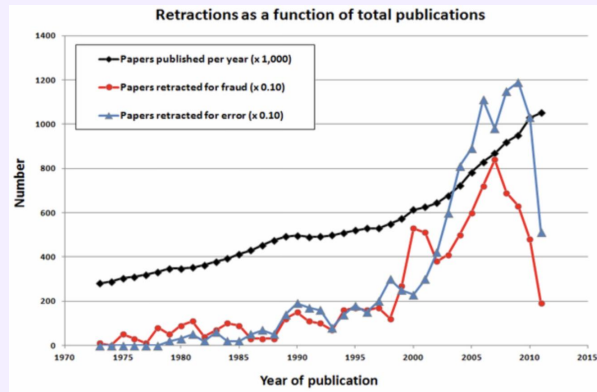
- GIFT /GUEST AUTHORSHIP
- GHOST AUTHORSHIP
  - Included in the list of authors without permission
  - An individual makes a substantial contribution to the research or the writing of the report, but is not listed as an author (WRITERS FOR DRUG COMPANIES )
- PRESSURED AUTHORSHIP
  - Authoritative( Head of department...etc)
- HONORARY AUTHORSHIP
  - Well-known figures in the field

ANALYSIS OF 630 MANUSCRIPT

AUTHORSHIP	PREVALENCE
HONORARY	17.6%
GHOST	8%

WISLAR,et al .BMJ. 2011; 343: d6128.  
 Published online 2011 Oct 25. doi: 10.1136/bmj.d6128

RETRACTION OF MANUSCRIPTS



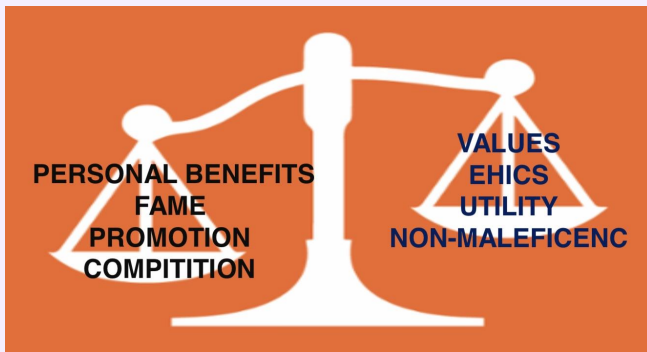
Author Responsibilities

– Preparation and Submission of Manuscripts:

Follow General Rules:

- Ensure work is new and original research
- All Authors are aware of submission and agree with content and support submission
- Agree that the manuscript can be examined by anonymous reviewers.
- Provide copies of related work submitted or published elsewhere
- Obtain copyright permission if figures/tables need to be reproduced
- Include proper affiliation

CONFLICT OF INTEREST



"You are completely free to carry out whatever research you want, so long as you come to these conclusions."



- أن لا يتعارض البحث مع الأحكام والقيم والأخاليات السالمية
- البعد عن الأبحاث التي أضرارها أكثر من منافعها
- عرض النتائج بمصداقية وشفافية
- البعد عن إختلاق النتائج أو تزييفها
- عدم حجب النتائج
- عدم إدعاء مالم يتوصل إليه من النتائج



- الأصالة والإبداع
- مراجعة البحوث السابقة بشكل جيد
- عدم التعدي على حقوق الآخرين
- عدم تعريض الناس للأخطار أو خديعتهم وغشهم
- إلتزام الطرق العلمية بدقة ومصداقية
- عدم تزوير طرق البحث أو نتائجها أو إدعاء الحصول على نتائج لم يتوصل إليها فعال
- التجرد وعدم التحيز
- إختيار فريق البحث الملائم
- البعد عن الاستغلال

## الضوابط الأخلاقية

- الأمانة في النقل : يقول الإمام النووي رحمه الله: (ومن النصيحة ان تضاف الفائدة التي تستغرب الي قائلها. فمن فعل ذلك بورك في عمله وحاله ومن أوهم فيما يأخذه من كلام غيره انه له فهو جدير ان لا ينتفع بعلمه , ولا يبارك له في حال , ولم يزل اهل العلم والفضل على اضافة الفوائد الي قائلها
- عدم الانتحال وادعاء ملكية ما لا يملك: يقول النبي صل الله عليه وسلم "المتشبع بما لم يعط كلابس ثوبي زور". ويعلق الامام ابن القيم على هذا الحديث فيقول: (المتشبع افتخار الانسان بما لا يملكه)
- الأمانة في عرض المادة العلمي.
- التجرد وعدم اتباع الهوى وعدم التحيز
- تجنب العش والخداع

## solutions

- EDUCATION , AWARENESS AND TRAINING
- PROMOTION OF SCIENTIFIC INTEGRITY
- PROMOTION OF ETHICAL CONDUCT
- CODES AND REGULATIONS
- DEALING WITH MISCONDUCT ALLEGATIONS
- EASINESS OF REPORTING AND PROTECTION OF WHISTELBLOWERS
- DISCLOSURE OF CONFLICT OF INTEREST