

저자, CREDIT

한림의대 가정의학과
의편협 출판 윤리위원
김수영

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- ◎ 저자
- ◎ CRediT

주요 참고문헌

- ◉ Recommendations for the Conduct, Reporting, Editing, and Publication of Scholarly Work in Medical Journals. 2016

<http://www.icmje.org/icmje-recommendations.pdf>

- ◉ COPE flow charts

<http://publicationethics.org/resources/flowcharts>

- ◉ 의편협 가이드라인.

http://www.kamje.or.kr/intro.php?body=publishing_ethics

저자

저자는?

- 연구의 출판에 **상당한 지적 기여를** 한 사람
someone who has made substantive intellectual contributions to a published study
- 출판물에 **책임을 지고 설명할** 수 있는 사람
taking responsibility and being accountable for what is published

- International Committee of Medical Journal Editors (ICMJE) 2016-

저자는?

- ◎ 연구의 개념, 설계, 데이터 수집, 해석에 기여
Substantial contributions to the conception OR design of the work; OR the acquisition, analysis, OR interpretation of data for the work; AND
- ◎ 초안 작성 혹은 개정에 주요한 기여
Drafting the work OR revising it critically for important intellectual content; AND
- ◎ 최종본을 승인
Final approval of the version to be published; AND
- ◎ 연구의 정확성과 진실성에 대해 설명 가능.
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

추가적인 내용

- 특정 저자가 어떤 부분에 책임성이 있는지 알아야
- 공저자의 기여의 진실성에 대해 확신이 있어야 함
- 이 기준이 저자 자격 박탈의 이유로 사용되어서는 안됨 (#2, #3)
- #1을 만족하면 **review** 등에 참여할 기회를 주어야 함

저자 자격 인정

- ◉ 학술지, 편집인의 업무가 아님
- ◉ 저자들간에 저자 분쟁이 해소되지 않으면 관련 기관에서 조사를 진행해야
- ◉ 저자의 추가나 삭제는 모든 저자의 동의가 있어야 함

OTHER CRITERIA

◎ American Physical society

- 논문 작성에 직접 기여하지 않아도 저자가 될 수 있음

◎ American Chemical Society

- 대다수의 연구자들은 ICMJE 기준을 모르거나, 너무 강한 기준으로 생각하고 동의하지 않음

AUTHORSHIP의 세 가지 요소

- ◎Credit
- ◎Responsibility
- ◎Transparency

[E. Wager, *Maturitas* 2008;62:109-12]

JAMA

- For reports of original data and systematic reviews, authors' specific contributions will be published in the Acknowledgment section. All other persons who have made substantial contributions to the work reported in this manuscript (eg, data collection, analysis, or writing or editing assistance) but **who do not fulfill the authorship criteria should be named with their specific contributions** and affiliations in an Acknowledgment in the manuscript. **Written permission to include the names of individuals in the Acknowledgment section** must be obtained.

책임저자

- ◎ corresponding author, 교신저자

one individual who takes primary responsibility for communication

- ◎ 논문의 모든 부분 책임

- ◎ 원칙적으로 1명이 바람직

- ◎ 다수를 허용하기도 하나 허용하지 않는 곳도 많음

“JKMS does not allow multiple corresponding authors for one article even when it is reporting on a multicenter study. Only one author should correspond with the editorial office and readers for one article.”

저자 결정 시점

- ◎ 연구시작 시점 권고
- ◎ 원고 제출 시점 필수

GROUP NAME

- ◉ 개인 이름을 병기하기도 함
- ◉ 책임저자는 반드시 지정
- ◉ 저자의 요건을 모두 만족하는지 반드시 확인

CONTRIBUTORS

- ◉ 연구 기여 하였지만 저자 요건 불만족
- ◉ 감사의 글에 언급
- ◉ 명확히 기여한 부분 밝힐 것
- ◉ permission
- ◉ **Non-Author Contributors(Medline)**

잘못된 저자

- ◉ Acquisition of funding,
- ◉ Collection of data,
- ◉ General supervision of the research group

부당한 저자표시

◎ Honorary(Guest, gift) Authors

- PI, 부서 책임자, 연구 지원금 제공, 선도적 연구자, 저자의 멘토
- 연구내용 또는 결과에 대한 공헌 또는 기여가 없음에도 저자 자격을 부여하는 경우

◎ Ghost author

- 연구내용 또는 결과에 대한 공헌 또는 기여가 있음에도 저자 자격을 부여하지 않는 경우
- 지도학생의 학위논문을 학술지 등에 지도교수의 단독 명의로 게재·발표하는 경우

부당한 저자표시 징후

- ◉ 책임저자 심사 답변 부적절
- ◉ 저자에 없는 사람이 수정(**Word** 문서 수정자 확인)
- ◉ 저자, 기여자 목록에 없는 사람이 작성 (**Word** 문서)
- ◉ 지나치게 많은 논문 작성하는 저자
- ◉ 다른 저자에 의해 작성된 유사한 종설, 편집인의 글 등
- ◉ 터무니 없이 긴(짧은) 저자 목록(예, 증례에 10명 이상, **RCT 1명**)
- ◉ 기업 스폰서 연구에 회사 소속 저자 없음
- ◉ 기여자 목록 역할이 빠져 있음

COPE flow charts

<http://publicationethics.org/resources/flowcharts>

현황

◎ BMJ 조사 (2011)

- 8개 high impact journals
- honorary authors (17.6 %)
- ghost authors (7.9 %)
- 1998년 동일한 조사 : 명예저자(19.3%) 변화 없고, 유령저자(11.5%) 감소

다른 연구

◎ 세 개 약학 학술지 조사(2011)

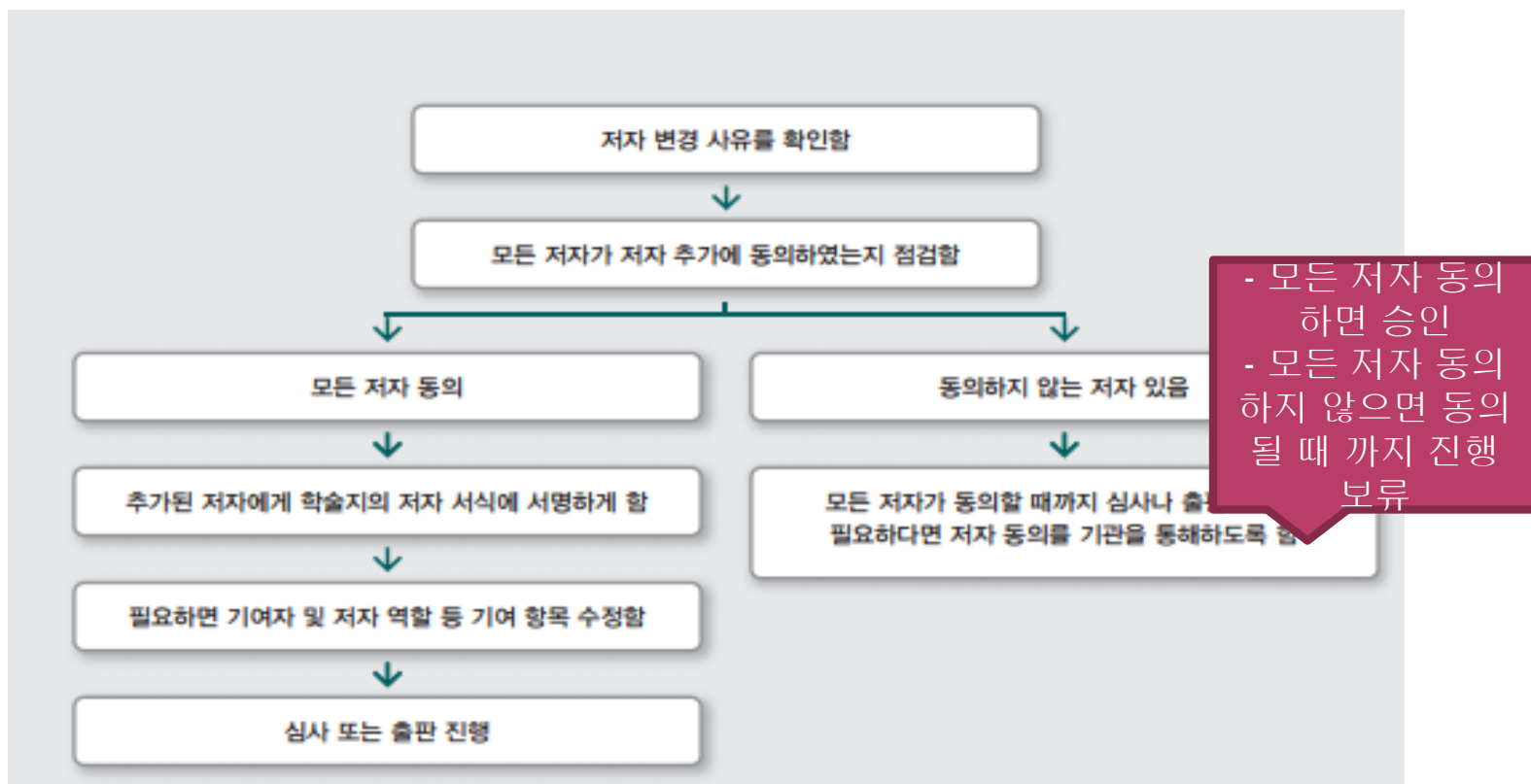
- 저자 설문
- honorary and ghost authors was 14.3% and 0.9%
- 저자 수 5명 이상 : 명예저자 29.4% ($p = 0.001$)

◎ J Nurs Scholarsh. 2014

- 간호학 10개 저널 조사
- honorary and ghost authors was 42% and 27.6%
- 이유에 대한 survey
 - Lack of awareness around the rules for authorship;
 - power relations and expectations;
 - Avoiding scrutiny

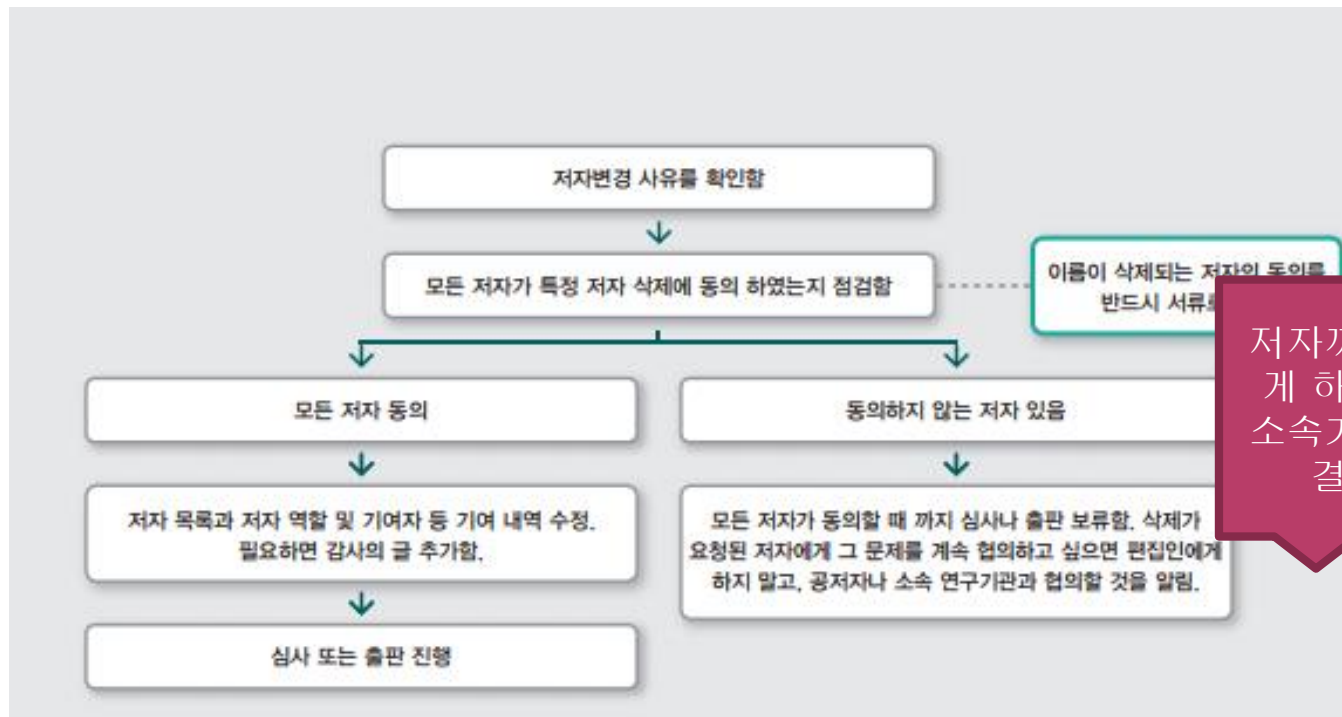
저자 변경

(a) 출판전 책임저자가 저자 추가 요청



저자 변경

(b) 출판 전에 책임저자가 일부 저자명 삭제 요청



저자끼리 해결하
게 하고 안되면
소속기관에서 해
결하도록

저자 변경

(c) 출판 후 저자 추가 요청

왜 저자가 빠졌는지 설명을 요청할. 모든 저자가 저자원칙에
해당해야 하고 자격 있는 저자가 목록에 빠져서는 안된다는
내용이 있는 학술지 규정이나 저자 선언 제시할

저자변경 사유를 확인할

모든 저자가 새 저자를 추가 하는데 동의 하였는지 점검할

모든 저자 동의

정정기사 출판할

모든 저자 동의하
면 정정기사

동의하지 않는 저자 있음

전 공저자가 동의서에 서명할 때 까지 저자명 변경
설명할. 저자되기 규정 제공할. 이 문제에 대하여 편
저자되기 지침만 제공하고 저자와 논쟁하지 말

분쟁에 개입하지
않는다.

모든 저자 동의

필요하면 정정기사 출판할

동의하지 않는 저자 있음

저자(들) 소속기관(들)에 통보하여
판정하도록 요청할.

소속기관이 요청하면
정정기사 출판할

기관에서 요청하
면 정정기사 출판

저자 변경

저자 삭제 이유를 설명하도록 함. 모든 저자가 저자원칙에
해당해야 하고 자격 있는 저자가 목록에 빠져서는 안된다는
내용이 있는 학술지 규정이나 저자 선언 제시함.
연구부정행위를 의심하는지 질의함.

저자변경 사유를 확인함

저자변경의 합리적 이유를 설명함

연구부정 혐의가 있을 때

제외되는 저자를 포함하여 모든 저자가
동의하는지 체크함

자료 변조에 관한 흐름도를 참조함

정정기사 출판

양쪽에 편지를 요
청해서 받음

이유를 편지에 그토록 요청함.
다른 입장 저자들에게도 같은 방식으로
응답 기회를 줄 것임을 설명함. 편지의
설명 분량이 적당하고 내용이 명예를
훼손하지 않는 등 적절하다면 양쪽 편지
모두 출판될 것임을 설명함

저자가 편지 작성함

저자가 편지쓰기를 동의하지 않거나 또는
편지내용을 출판할 수 없는 경우

다른 쪽 저자를 접촉하여
현재상황을 설명함

저자 삭제를 계속 원하거나 다른 저자들이
동의하는 경우에는 정정기사 출판을 고려함

모든 저자 동의하
면 정정기사

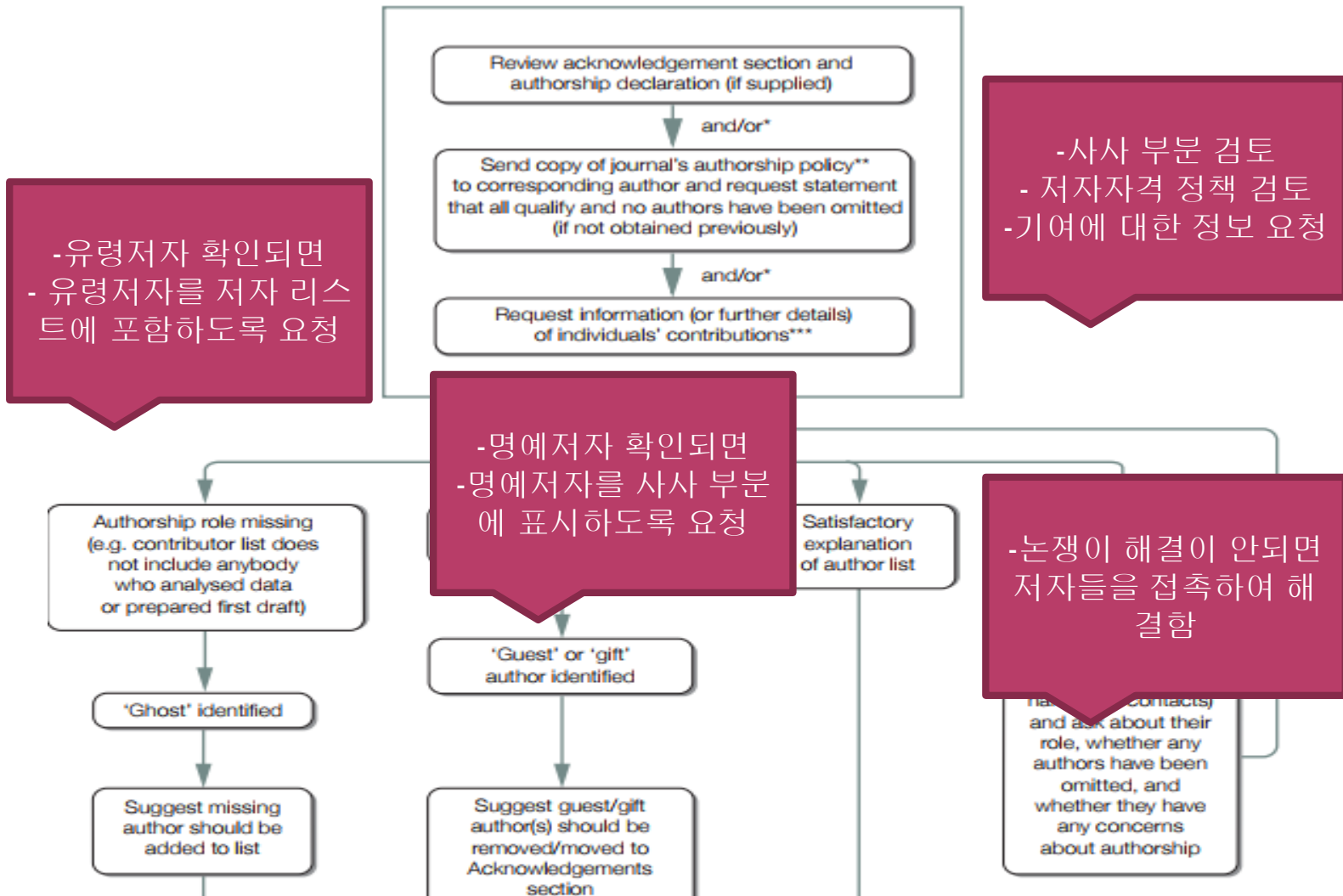
다른 쪽 저자가 답변함

양쪽에 편지 출판
하거나 소수의견
출판

양측 편지를 출판

분쟁에 개입하지
않는다.

What to do if you suspect ghost, guest or gift authorship



Author name correction:

Blood Cells Mol Dis. 2000 Dec;26(6):567-71.

A new exon 9 glucose-6-phosphate dehydrogenase mutation (G6PD "Rehovot") in a Jewish Ethiopian family with variable phenotypes.

Iancovici-Kidon M, Sthoeger D, Abrahamov A, Wolach B, Beutler E, Gelbart T, Barak Y.

Department of Pediatrics, Kaplan Medical Center, Rehovot 76100, Israel.

Erratum in:

Blood Cells Mol Dis 2001 Jan-Feb;27(1):351. Volach B [corrected to Wolach B].

Hereditary nonspherocytic hemolytic anemia (HNSHA) is a rare manifestation of glucose-6-phosphate dehydrogenase (G6PD) gene mutations, caused mainly by mutations located in exon 10 of the G6PD gene and less commonly by mutations in other parts of the gene. A new, exon 9, single-base mutation representing a T --> C transition at cDNA nucleotide 964 was found in three brothers and their carrier mother of Jewish Ethiopian descent. Biochemical characterization of the resultant protein was not performed. Though clinical manifestations included HNSHA in all cases, the severity of hemolysis and the transfusion requirement differed markedly. Severe congenital neutropenia (Kostmann's syndrome)--a disorder never reported before in conjunction with G6PD deficiency--was observed in one case. Levels of white blood cell G6PD activity of the three patients were 0-5% of normal controls. Neutrophil oxidative and bactericidal activities were inherently impaired in the patient with Kostmann's syndrome, but were well preserved in his two siblings. Copyright 2000 Academic Press.

PMID: 11112389 [PubMed - indexed for MEDLINE]

NLM policy fact sheet

<http://www.nlm.nih.gov/pubs/factsheets/errata.html>.

저자 분쟁과 RETRACTION

Should retraction be applied in cases of disputed authorship?

Authors sometimes request that articles are retracted when authorship is disputed after publication. If there is no reason to doubt the validity of the findings or the reliability of the data it is not appropriate to retract a publication solely on the grounds of an authorship dispute. In such cases, the journal editor should inform those involved in the dispute that s/he cannot adjudicate in such cases but will be willing to publish a correction to the author/contributor list if the authors/contributors (or their institutions) provide appropriate proof that such a change is justified.

COPE retraction guideline 2009

CREDIT CONTRIBUTOR ROLES TAXONOMY

CREDIT은?

- ◉ 기여자 역할에 대한 통제어
(A controlled vocabulary : taxonomy)
- ◉ 출판물에서 기여의 전형적인 형태에 대해
기술
- ◉ Open standards

HISTORY

- ◉ May of 2012 the Wellcome Trust, Harvard University workshop : 기여와 기여자에 대한 새로운 모델
- ◉ ICMJE와 협업을 통해 taxonomy 개발하기로 함
- ◉ draft taxonomy 2014년 4월 발표 (Nature)
- ◉ 2015년 이후 : Endorsed by major publishers

BENEFITS

- ◉ Facilitate authorship/contributorship disclosure processes
- ◉ Identify good practices for tracking
- ◉ Minimize authorship disputes
- ◉ Enable appropriate recognition for the different contributions in multi-authored
- ◉ Support identification of peer reviewers and experts
- ◉ Support grant making by enabling funders to identify responsible for specific research products
- ◉ Improve automated tracking of funding outcomes
- ◉ Support new forms of social and research networking
- ◉ Further developments in data management
- ◉ Enable new metrics of credit and attribution

14 CONTRIBUTOR ROLES/RESPONSIBILITIES I

1. Study conception (연구의 개념)
2. Methodology (방법론)
3. Computation (계산)
4. Formal analysis(공식 분석)
5. Investigation: performed the experiments
(조사, 실험수행)
6. Investigation: data/evidence collection
(조사, 자료/근거 수집)
7. Resources (자원)

14 CONTRIBUTOR ROLES/RESPONSIBILITIES II

8. Data curation (데이터 큐레이션)
9. Writing/manuscript preparation: writing the initial draft (원고 준비, 초안 작성)
10. Writing/manuscript preparation: critical review, commentary or revision (비평, 논평, 개정)
11. Writing/manuscript preparation: visualization/data presentation (시각화, 자료 제시)
12. Supervision (감독)
13. Project administration (프로젝트 관리)
14. Funding acquisition (자금 조달)

14 CONTRIBUTOR ROLES/RESPONSIBILITIES I

1. Study conception

- Ideas; formulation of research question; statement of hypothesis.

2. Methodology

- Development or design of methodology; creation of models.

3. Computation

- Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms.

4. Formal analysis

- Application of statistical, mathematical or other formal techniques to analyse study data.

14 CONTRIBUTOR ROLES/RESPONSIBILITIES II

5. **Investigation : performed the experiments**
 - Conducting the research and investigation process, specifically performing the experiments.
6. **Investigation: data/evidence collection**
 - Conducting the research and investigation process, specifically data/evidence collection.
7. **Resources**
 - Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation or other analysis tools.
8. **Data curation**
 - Management activities to annotate (produce metadata) and maintain research data for initial use and later re-use.

14 CONTRIBUTOR ROLES/RESPONSIBILITIES III

9. Writing/manuscript preparation: writing the initial draft
 - Preparation, creation and/or presentation of the published work, specifically writing the initial draft.
10. Writing/manuscript preparation: critical review, commentary or revision
 - Preparation, creation and/or presentation of the published work, specifically critical review, commentary or revision.
11. Writing/manuscript preparation: visualization/data presentation
 - Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.

14 CONTRIBUTOR ROLES/RESPONSIBILITIES VI

12. Supervision

- Responsibility for supervising research; project orchestration; principal investigator or other lead stakeholder.

13. Project administration

- Coordination or management of research activities leading to this publication.

14. Funding acquisition

- Acquisition of the financial support for the project leading to this publication.

T1 - Conceptualization

Ideas; formulation or evolution of overarching research goals and aims.




<https://github.com/akenall/Open-Contributorship-Badges/blob/master/Badge%20Files.md#t2---methodology>

Characteristics of Retractions from Korean Medical Journals in the KoreaMed Database: A Bibliometric Analysis

Sun Huh, Soo Young Kim , Hye-Min Cho

Published: October 5, 2016 • <https://doi.org/10.1371/journal.pone.0163588>

Article	Authors	Metrics	Comments	Related Content
				

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Competing Interests

HM Cho is employed by a commercial company: Infolumi Co, Inforumi. This does not alter our adherence to PLOS ONE policies on sharing data and materials.

Author Contributions

Conceptualization: SYK. Data curation: HMC. Formal analysis: SYK HMC. Funding acquisition: SH. Methodology: SYK SH HMC. Project administration: SYK. Visualization: SYK SH HMC. Writing – original draft: SYK SH. Writing – review & editing: SYK SH HMC.

Implementations

The following organizations and initiatives have implemented or are implementing CRediT.

GigaScience

GigaScience launches project based on CRediT:

- <http://blogs.biomedcentral.com/gigablog/2015/09/28/putting-credit-hands-researchers/>
- <http://www.nature.com/news/digital-badges-aim-to-clear-up-politics-of-authorship-1.18443>
- <http://blogs.biomedcentral.com/bmcblog/2015/09/28/moving-beyond-authorship-recognizing-contributions-research/>

Cell Press

Cell Press began recommending CRediT to its authors in May 2015 and has published more than 350 papers that use the CRediT taxonomy. The current rate of uptake is around 15% to 17% of research papers, and feedback has been positive. For more details, please contact G Peter Harp [gharp at cell.com].

- <http://crosstalk.cell.com/blog/authors-reflect-on-the-credit-taxonomy>
- [Cell Press CRediT Slide Deck \(PPT\)](#)

Aries Systems

Aries systems has implemented credit in their EM 13.0. For more info, please contact Alison O'Connell [aoconnell at ariessys.com].

EM's initial implementation of the new standard allows:

- The ability to attribute one or more 'Contributor Roles' to each Author of a submission
- The ability to identify the degree to which a particular contributor was involved, i.e. one of "Lead", "Supporting", "Equal"
- The ability to configure the collection of Contributor Roles per Article Type, as either optional or required.

AUTHOR CONTRIBUTION

Conceptualization: Lee JH. Data curation: Lim HS, Lee JH. Investigation: Lee C, Sung NJ, Lim HS, Lee JH. Writing - original draft: Lee C, Lee JH. Writing - review & editing: Lee C, Sung NJ, Lim HS, Lee JH.

AUTHOR CONTRIBUTION

Conceptualization: Kim SC, Ro YS, Shin SD, Wi DH, Jeong J, Park JO. Data curation: Kim SC, Ro YS, Sun KM, Bae K. Formal analysis: Kim SC, Ro YS. Funding acquisition: Shin SD, Jeong J. Investigation: Kim SC, Sun KM, Bae K. Resources: Sun KM, Bae K. Supervision: Ro YS, Shin SD, Wi DH, Jeong J. Writing - original draft: Kim SC, Ro YS. Writing - review & editing: Shin SD, Jeong J.