



2021 편집인 온라인 워크숍(2021-A01)

NOV 24, 2021

Virtual On-line Workshop (Live streaming)

# 2021 편집인 온라인 워크숍

## 연구출판윤리 최신지견



윤 철 희 (Cheol-Heui YUN)



과편협 출판윤리위원회, 위원장  
서울대학교, 교수

Statement for **C**onflict **o**f **I**nterest I, Cheol-Heui  
YUN, serve in the following roles, but, no  
potential **C**oI to disclose



# 목 차

- ✓ 연구·출판윤리 환경: 최근이슈
- ✓ 연구·출판윤리 규정: 국가연구  
개발혁신법
- ✓ Open science
- ✓ AI 이슈: 출판(편집) 중심
- ✓ 결 론

# 연구 · 출판윤리(Research Ethics)

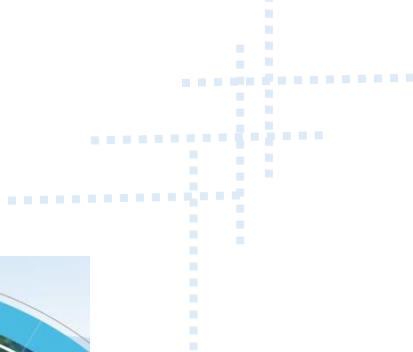
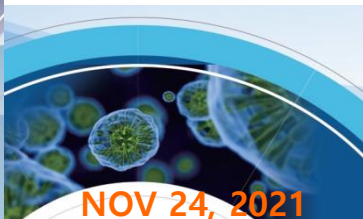
구분	사회윤리규범		내부윤리규범	
진행과정	연구주제선정	연구수행	결과보고	성과활용
주요이슈	<ul style="list-style-type: none"><li>인간복제(?) AI ethics, Genome editing, Stem cell research, Xenograft, Lab-grown meat, Artificial human breast milk, Drone, Driverless car, etc.</li></ul>	<ul style="list-style-type: none"><li>생명의 존엄성 훼손</li><li>실험실 안전 관리소홀</li></ul>	<ul style="list-style-type: none"><li>위조</li><li>변조</li><li>표절</li><li>이미지조작</li></ul>	<ul style="list-style-type: none"><li>불공정 성과배분 (부당한 저자표기)</li><li>성과 과장(중복게재)</li></ul>



연구자의 사회적 책임



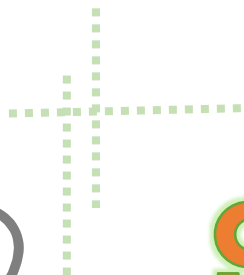
연구·출판부정 행위



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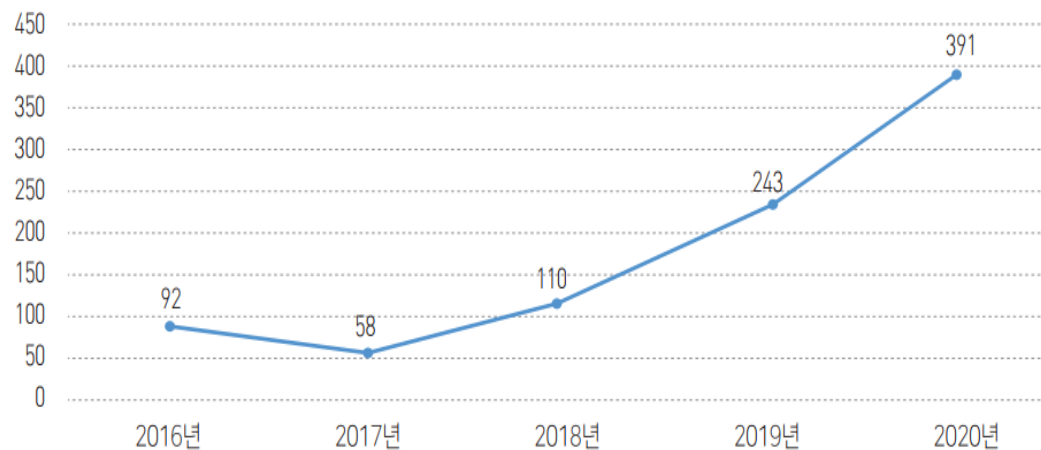


# 연구윤리 환경: 최근이슈

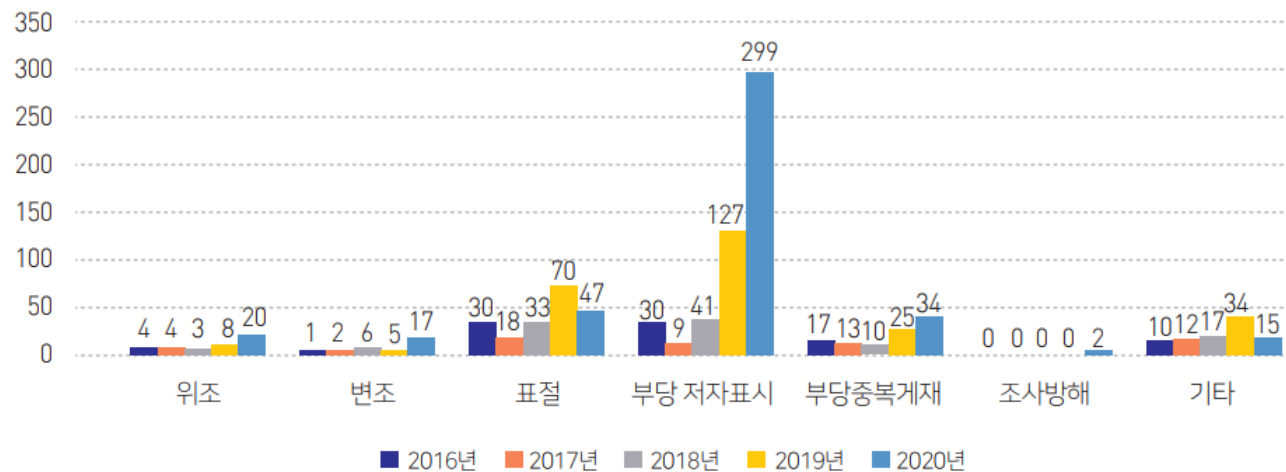
# 연구윤리실태조사

조사대상 : 4년제 대학, 전문대학, 대학원 대학 등 총 415개교

연구부정행위 의혹 추이(건) [2016 - 2020]



연구부정행위 의혹 유형별 현황(건) [2016 - 2020]

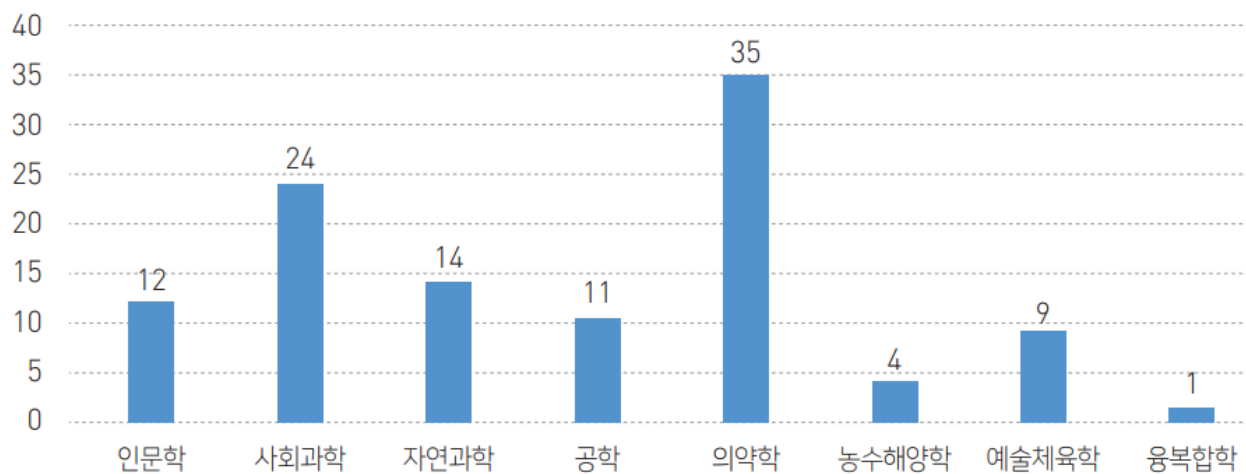


2020 대학 연구윤리 실태조사 보고서  
한국연구재단, 2021.04.

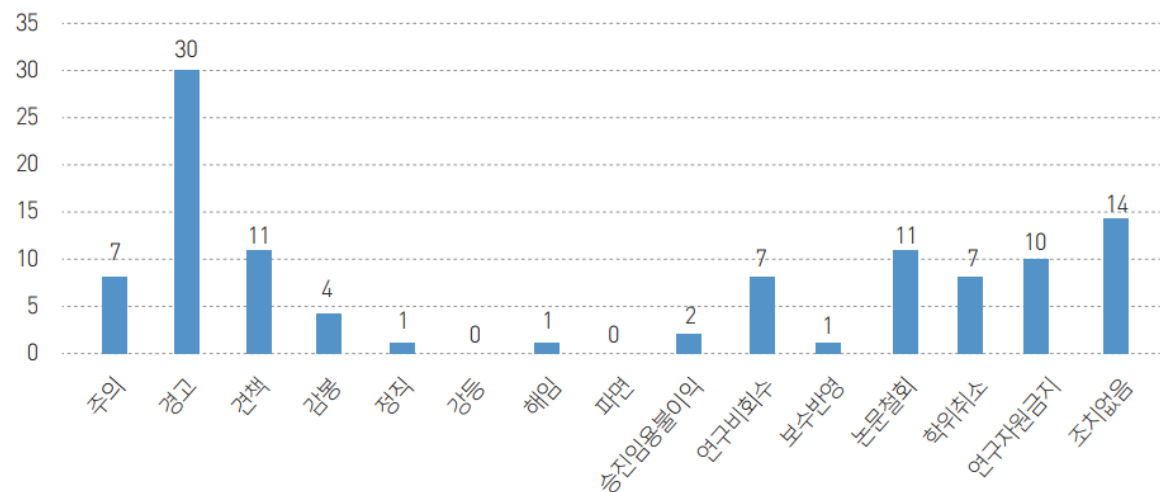
# 연구윤리실태조사

조사대상 : 4년제 대학, 전문대학, 대학원 대학 등 총 415개교

학문 분야별 연구부정행위 최종판정 현황(건) [2016 - 2020]



연구부정행위 조치결과 유형별 현황(건) [2016 - 2020]



2020 대학 연구윤리 실태조사 보고서  
한국연구재단, 2021.04.

# 연구윤리실태조사

## 4년제 대학의 연구윤리 실태조사

### 연구윤리 규정 제정 여부 [2016 - 2020]

연도		응답대학 수	규정제정 대학 수	제정율(%)
2016년		183	177	96.7
2017년		183	177	96.7
2018년	전체	176	172	97.7
	국공립	39	37	94.9
	사립	137	134	97.8
2019년	전체	179	177	98.9
	국공립	41	41	100
	사립	138	136	98.6
2020년	전체	171	171	100
	국공립	43	43	100
	사립	128	128	100

### 규정에 명시된 연구부정행위 범위 [2020년 기준]

구분	연구부정행위	규정제정 대학 수	규정 명시 대학수	명시율(%)
전체	위조	171	170	99.4%
	변조	171	170	99.4%
	표절	171	170	99.4%
	부당저자표시	171	170	99.4%
	부당중복게재	171	145	84.8%
	조사방해행위	171	153	89.5%
	기타	171	151	88.3%

2020 대학 연구윤리 실태조사 보고서  
한국연구재단, 2021.04.

# 연구윤리실태조사

## 4년제 대학의 연구윤리 실태조사

검증시효 폐지 여부 [2020년 기준]

구분	규정제정 대학 수	응답대학 수	검증시효 폐지	검증시효 있음	
				대학 수	평균 검증시효
전체	171	170	128	42	5.5년
국공립	43	43	35	8	5.6년
사립	127	127	93	34	5.4년

검증시효 기간[2020년 기준]

검증시효 있는 대학 수	검증 시효 기간				
	3년	5년	10년	14년	기간 무응답
42	1	33	2	1	5

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# 연구윤리실태조사

## 4년제 대학의 연구윤리 실태조사

연구부정행위 의혹 및 최종판정 현황  
(총괄표) [2016 - 2020]

연도		연구부정 행위 조사 실시 대학수	연구부정행위 의혹 건수	연구부정행위로 최종판정	
				최종판정 건수	최종판정 비율
2016년		-	92	-	
2017년		-	58	-	
2018년	전체	-	110	-	
	국공립	-	34	-	
	사립	-	76	-	
2019년	전체	-	243	91	37.4%
	국공립	-	78	37	47.4%
	사립	-	165	54	32.7%
2020년	전체	81	391	110	28.1%
	국공립	26	169	38	22.5%
	사립	55	222	72	32.4%

2020 대학 연구윤리 실태조사 보고서  
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# 연구윤리실태조사

## 4년제 대학의 연구윤리 실태조사

연구부정행위 유형별 의혹 현황  
[2016 - 2020]

연도		위조	변조	표절	부당 저자	중복 게재	제보 방해	기타	소계
2016년		4	1	30	30	17	0	10	92
2017년		4	2	18	9	13	0	12	58
2018년	전체	3	6	33	41	10	0	17	110
	국공립	2	3	8	13	1	0	7	34
	사립	1	3	25	28	9	0	10	76
2019년	전체	8	5	70	127	25	0	33	268
	국공립	1	1	15	50	5	0	8	80
	사립	1	3	25	28	9	0	10	76
2020년	전체	20	17	47	299	34	2	15	434
	국공립	11	7	12	134	7	1	11	183
	사립	9	10	35	165	27	1	4	251

2020 대학 연구윤리 실태조사 보고서  
한국연구재단, 2021.04.

# 연구윤리실태조사

## 4년제 대학의 연구윤리 실태조사

연구부정행위 유형별 최종판정  
현황 [2020 기준]

구분	위조	변조	표절	부당 저자	중복 게재	제보 방해	기타	소계
전체	13	11	29	58	22	0	5	138
국공립	7	4	5	25	4	0	1	46
사립	6	7	24	33	18	0	4	92

2020 대학 연구윤리 실태조사 보고서  
한국연구재단, 2021.04.

# 연구윤리실태조사

## 40% of professors unaware of research misconduct or how it is investigated, study shows

 The Korea Herald

More research misconduct cases found in 2020

By Kan Hyeong-woo

Published : Jul 16, 2021 - 15:58   Updated : Jul 19, 2021 - 09:44

Titled “2021 Study on the Level of Research Ethics Recognition of University Faculty Members,” the report conducted a nationwide survey on 2,292 professors and graduate students who had participated in NRF research projects in the past two years.

Asked what is needed the most to prevent violations of research ethics, nearly 30 percent of the professors and graduate students said the evaluation system needs to be changed so that it alleviates overheated competition for performance.

In regards to the most frequent violations of research ethics, 27.7 percent of the survey respondents chose poor recording and managing of research notes, followed by unfair marking with 26.3 percent and plagiarism with 23.2 percent.

Less than 20 percent of the respondents picked “strengthening research ethics education” while 14.4 percent chose “strong penalties for researchers who violate research ethics.”

# The Top Retractions of 2020

The *Retraction Watch* team takes a look at the most important publishing mistakes this year.

Retraction Watch  
Dec 15, 2020



Retraction  
Watch

TheScientist  
EXPLORING LIFE, INSPIRING INNOVATION

According to our [tracker](#) in early December, 39 (40 by Dec. 18) articles about the novel coronavirus have been retracted from preprint servers or peer-reviewed journals so far.

April 6, 2020

## Lancet, NEJM retract controversial COVID-19 studies based on [Surgisphere](#) data

Two days after issuing [expressions of concern](#) about controversial papers on Covid-19, *The Lancet* and the New England Journal of Medicine have retracted the articles because a number of the authors were not granted access to the underlying data.

THE  
LANCET

Published: May 22,  
2020 DOI: [https://doi.org/10.1016/S0140-6736\(20\)31180-6](https://doi.org/10.1016/S0140-6736(20)31180-6)



Today, three of the authors of the paper, “Hydroxychloroquine or chloroquine with or without a macrolide for treatment of COVID-19: a multinational registry analysis”, have retracted their study.

Because all the authors were not granted access to the raw data and the raw data could not be made available to a third-party auditor, we are unable to validate the primary data sources underlying our article, “Cardiovascular Disease, Drug Therapy, and Mortality in Covid-19.”<sup>1</sup> We therefore request that the article be retracted. We apologize to the editors and to readers of the Journal for the difficulties that this has caused.

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Dec 15, 2020



Retraction  
Watch

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April 6, 2020

**The dubious therapy, which President Donald Trump boasted of having taken, was also the subject of this preprint (Hydroxychloroquine)**

**WITHDRAWN** Version 1 (May 11, 2020 - 06:06), 2020

Comments (6)

**Hydroxychloroquine plus azithromycin: a potential interest in reducing in-hospital morbidity due to COVID-19 pneumonia (HI-ZY-COVID)?**

Benjamin Davido, Thibaud Lansaman, Christine Lawrence, Jean-Claude Alvarez, Frederique Bouchand, Pierre Moine, Veronique Perronne, Aurelie Le Gal, Djillali Annane, Christian Perronne, Pierre De Truchis, COVID-19 RPC Team

doi: <https://doi.org/10.1101/2020.05.05.20088757>

**This article is a preprint and has not been peer-reviewed [what does this mean?]. It reports new medical research that has yet to be evaluated and so should not be used to guide clinical practice.**

medRxiv  
THE PREPRINT SERVER FOR HEALTH SCIENCES



BMJ Yale

The authors have **withdrawn this manuscript and do not wish it to be cited**. Because of controversy about hydroxychloroquine and the retrospective nature of their study, they intend to revise the manuscript after peer review.

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Dec 15, 2020



Retraction  
Watch

**TheScientist**  
EXPLORING LIFE, INSPIRING INNOVATION

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*April 6, 2020*

## Top journal retracts study claiming masks ineffective in preventing COVID-19 spread

The **Annals of Internal Medicine** backtracked on a highly-cited paper it published in April that purported to find that masks were ineffective at preventing the spread of SARS-CoV-2. The article, which became a media—and social media—star, was woefully light on data, based in fact on just four subjects.

# The Top Retractions of 2020

The *Retraction Watch* team takes a look at the most important publishing mistakes this year.

Retraction Watch  
Dec 15, 2020



Retraction  
Watch

TheScientist  
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According to our [tracker](#) in early December, 39 (40 by Dec. 18) articles about the novel coronavirus have been retracted from preprint servers or peer-reviewed journals so far.

April 6, 2020

## **SARS-CoV-2 was Unexpectedly Deadlier than Push-scooters**: Could Hydroxychloroquine be the Unique Solution?



*Asian Journal of Medicine and Health*

18(9): 14-21, 2020; Article no.AJMAH.60013  
ISSN: 2456-8414

### **Retracted: SARS-CoV-2 was Unexpectedly .....**

Willard Oodendijk<sup>1\*</sup>, Michaël Rochoy<sup>2</sup>, Valentin Ruggeri<sup>3</sup>, Florian Cova<sup>4</sup>,  
Didier Lembrouille<sup>5</sup>, Sylvano Trottinetta<sup>6</sup>, Otter F. Hantome<sup>7</sup>,  
Nemo Macron<sup>8</sup> and Manis Javanica<sup>9</sup>

**The sting article** was the brainchild of graduate student Mathieu Rebeaud, aka “Willard Oodendijk” and Florian Cova, of “The Institute for Quick and Dirty Science” (no, not really) in Switzerland. **Their goal:** to highlight a concerning paper in the Asian Journal of Medicine and Health, which they and others **suspect of being a predatory publication** — one that is happy to take money to publish anything, while pretending to perform peer review.

- This may be the scientific publishing version of “[the operation was a success, but the patient died.](#)”
- “yes the article deserves to be withdrawn—but it should NEVER have been published in the first place, that’s the beauty of the story.”



# Retraction Watch integration

Our list of retracted or withdrawn COVID-19 papers is [up to 190](#). There are now more than [31,000 retractions in our database](#) — which now powers retraction alerts in [EndNote](#), [Papers](#), and [Zotero](#).

**Papers:** With the [integration of the Retraction Watch database](#), Paper users will enjoy expanded coverage to the current retraction data already available within Papers.

**Reference Management** for Researchers, by Researchers: Papers helps you collect and curate the research material that you're passionate about. Our award-winning reference manager will dramatically improve the way you discover, organize, read, annotate, share, and cite.

**Zotero:** Retracted item notifications with Retraction Watch integration; Zotero can now help you avoid relying on retracted publications in your research by [automatically checking your database and documents for works that have been retracted](#).

Zotero is a **free, easy-to-use tool** to help you collect, organize, cite, and share research.

# Retraction Watch

Have you seen our leaderboard of [authors with the most retractions lately?](#)

[illegible]

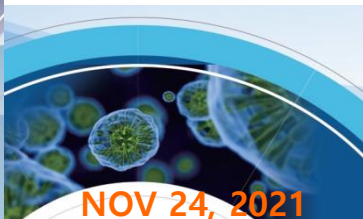
252 Tao & Liu (29) See also: our coverage

KCSE

# [소 결론] 연구윤리 환경: 최근이슈

## Thinking points:

1. 위조, 변조, 표절, 부당저자, 중복게재 증가(추세)
2. Integration of Retraction watch DB with reference management software



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# 연구 · 출판윤리 규정:

## 국가연구개발혁신법

# 국가연구개발혁신법

[시행 2021. 1. 1.] [법률 제17343호, 2020. 6. 9., 제정]

## 배경 및 구조

부처별로 다르게 운영되는 국가연구개발 관련 규정을 통합. 체계화하여 자율적이고 책임있는 연구개발환경을 조성하기 위한 법률: 총 5장 41개 조, 시행령, 시행규칙과 9개 행정규칙으로 구성

## 연구윤리 확보 및 제재처분

### 연구윤리확보 근거 규정의 변화

**(취지)** 건강하고 성숙한 연구문화 조성을 위한 연구윤리의 범위 확장, 연구현장의 자율적인 가치 정립을 위한 연구윤리 확보 책임 명확화

**(규정)** 「국가연구개발혁신법」제정을 통해 연구윤리에 관한 규정을 법률에서 명시

# 국가연구개발혁신법

[시행 2021. 1. 1.] [법률 제17343호, 2020. 6. 9., 제정]

## 혁신법에 따른 제도의 변화

### 1. 연구윤리 개념의 확장

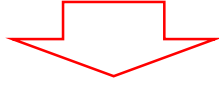
(종전) 연구부정(위조·변조·표절, 부당한 저자 표시 등) 방지를 위한 개념



(변경) 연구진실성 확보 + 학문교류에 관한 윤리 + 이해 충돌 관리 + 인간·동물연구 윤리 + 건전한 연구실 문화 조성 등으로 확장

### 2. 연구윤리 확보 책임 및 의무

(종전) 주체별(중앙행정기관·전문기관·연구기관) 책임 및 역할 모호



(변경) 연구자·연구기관을 연구윤리 확보 의무주체로, 정부를 연구기관의 연구윤리 확보 활동을 지원·점검하는 주체로 규정

(연구자의 의무) 연구기관의 연구윤리 자체규정을 준수하고, 진실하고 투명하게 국가연구개발활동을 수행해야 함

(연구기관의 의무) 확장된 연구윤리 범주에 관한 연구기관 자체규정을 마련하고, 소속연구자 등의 연구윤리 확보를 지원해야 함

연구부정 등 부정행위의 검증·조치에 관한 규정은 별도 자체규정을 마련하도록 하여 연구윤리에 관한 자체규정과 분리

## 제4장 국가연구개발사업 과련 연구윤리 확보 및 제재처분

**제56조(국가연구개발사업 관련 부정행위)** ① 법 제31조제1항제6호에서 “대통령령으로 정하는 행위”란 다음 각 호의 행위를 말한다.

1. 법 제31조제1항에 따른 부정행위(이하 “부정행위”라 한다) 제보자에 대한 같은 조 제2항 및 제3항에 따른 검증·조치 및 조사의 공정성·객관성을 해치는 다음 각 목의 행위  
가. 신분상의 불이익 조치  
나. 위협·협박
2. 연구개발비 사용의 건전성을 해치는 다음 각 목의 행위  
가. 제24조제3항에 따른 증명자료의 위조·변조  
나. 제25조제1항에 따른 사용내역의 거짓 보고
3. 「생명윤리 및 안전에 관한 법률」 제64조부터 제68조까지의 규정에 해당하는 행위
4. 「연구실 안전환경 조성에 관한 법률」 제43조에 해당하는 행위

## 제4장 국가연구개발사업 과련 연구윤리 확보 및 제재처분

**제56조(국가연구개발사업 관련 부정행위)** ① 법 제31조제1항제6호에서 “대통령령으로 정하는 행위”란 다음 각 호의 행위를 말한다.

② 법 제31조제1항제1호에 따른 부정행위의 세부기준은 다음 각 호와 같다.

- 1. 위조:** 존재하지 않는 연구개발자료 및 연구개발성과를 거짓으로 만들거나 기록 또는 보고하는 행위
- 2. 변조:** 연구시설·장비, 연구재료 및 연구개발과정을 인위적으로 조작하거나 연구개발자료 및 연구개발성과를 임의로 변형·추가·삭제함으로써 연구개발 수행의 내용 또는 결과를 왜곡하는 행위
- 3. 표절:** 일반적인 지식이 아닌 연구자 자신 또는 다른 사람의 연구개발자료 또는 연구개발성과를 적절한 출처의 표시 없이 연구자 자신의 연구개발자료 또는 연구개발성과에 사용하는 행위
- 4. 저자를 부당하게 표시하는 행위:** 연구개발과제 수행의 내용 또는 결과에 대하여 공헌 또는 기여를 한 사람에게 정당한 사유 없이 저자의 자격을 부여하지 않거나 공헌 또는 기여를 하지 않은 사람에게 정당한 사유 없이 저자의 자격을 부여하는 행위



## 제4장 국가연구개발사업 과련 연구윤리 확보 및 제재처분

**제58조(연구윤리의 확보를 위하여 필요한 지원)** ① 연구개발기관의 장은 법 제31조제4항에 따른 지원을 위하여 다음 각 호의 사항이 포함된 자체 연구윤리규정을 마련하여 운영해야 한다.

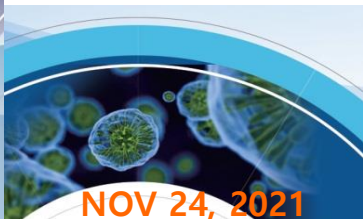
1. 연구개발과제의 수행과 관련하여 「과학기술기본법」 제4조제5항에 따른 진실성을 보호하기 위한 노력 및 관리체계
2. 학술지 투고, 학회 참석 등 학문교류에 관한 윤리
3. 이해 충돌 예방 및 관리
4. 인간 대상 연구 및 동물 실험에 관한 윤리
5. 연구자의 권익보호 등 건전한 연구실 문화 조성
6. 그 밖에 연구윤리 확보를 위하여 연구개발기관의 장이 필요하다고 인정하는 사항

② 과학기술정보통신부장관은 관계 중앙행정기관의 장과 협의하여 법 제31조제4항에 따른 지원에 대한 시책을 수립하여 추진 할 수 있다.

**제59조(부정행위 등에 대한 제재처분)**

**제61조(연구자 권익보호 등을 검토하기 위한 위원회의 구성 및 운영)**

**제65조(연구노트의 작성·관리 및 활용 촉진)**



2021 편집인 온라인 워크숍(2021-A01)

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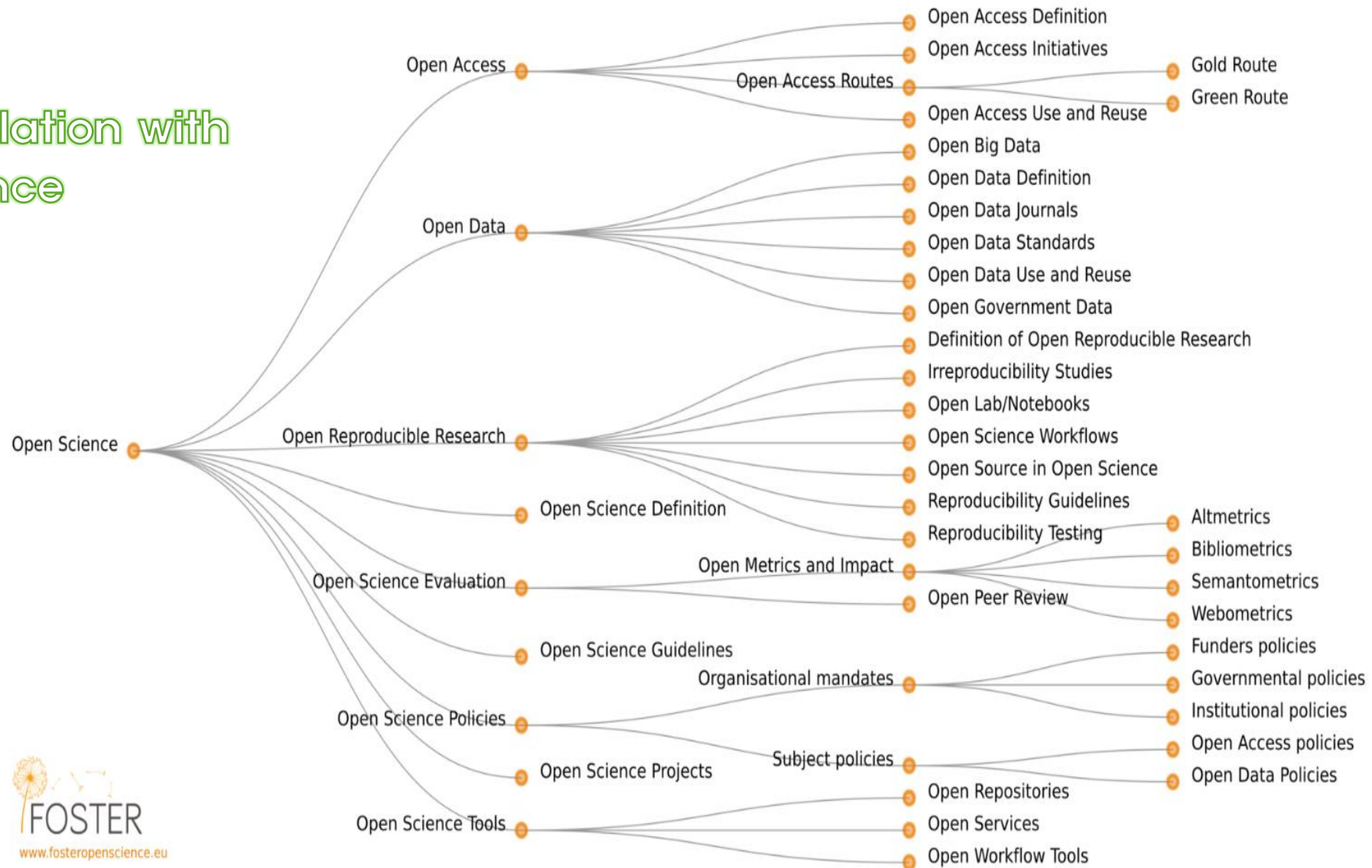
Virtual On-line Workshop (Live streaming)



# Open science

# Open science: Taxonomy

Issues in relation with  
Open Science



# Open Science is .. ..

## OPEN EXPAND THE POSSIBLE SCIENCES



Prepared for the Canadian Commission for UNESCO

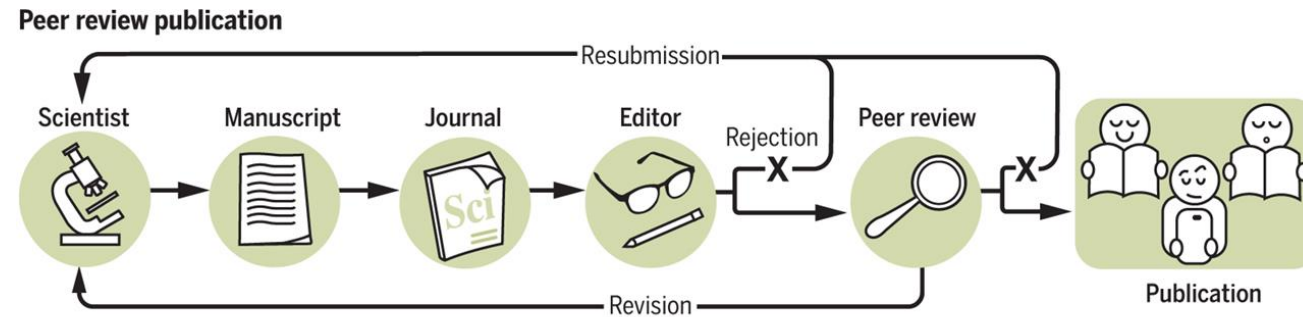
By Ella Chan, Dick Bourgeois-Doyle, Michael Donaldson, and Eleanor Haine-Bennett

Ottawa, Canada, April 2020

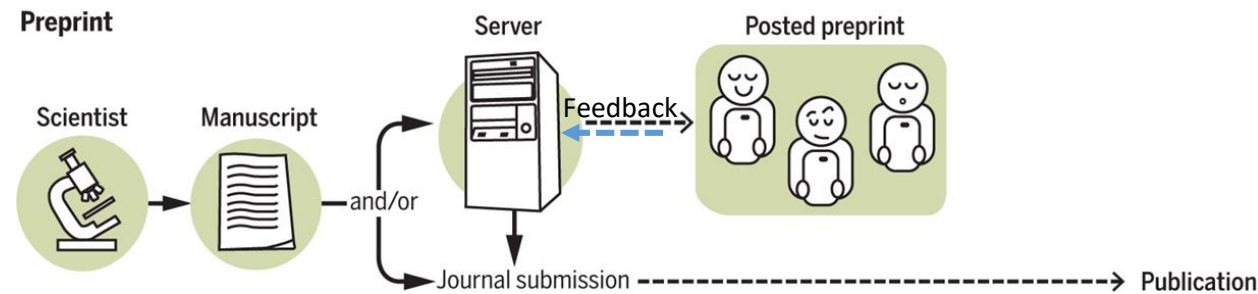
Components of Open Science

# Open science: Transparency

## Peer review (Pre-publication)



## Preprints



Science  
AAAS

Jeremy M. Berg et al. *Science* 2016;  
352:899-901.

Preprints servers allow transfer to peer-review journal submission sites (**Science**, **PNAS**, **PLOS**, **BMC**, **Genetics**, etc.)



# Open access: Transparency



The *eLife* works to improve research communication through **open science** and **open technology** innovation

## Decision letter

**Arup K Chakraborty**

Senior Editor; Massachusetts Institute of Technology, United States

**Richard A Neher**

Reviewing Editor; University of Basel, Switzerland

**Richard A Neher**

Reviewer; University of Basel, Switzerland

**Mark Zanin**

Reviewer; St. Jude's Children's Hospital, United States

In the interests of **transparency**, **eLife** **includes** the editorial decision letter, peer reviews, and accompanying author responses.

*In the interests of transparency, eLife includes the editorial decision letter and accompanying author responses. A lightly edited version of the letter sent to the authors after peer review is shown, indicating the most substantive concerns; minor comments are not usually included.*

Thank you for submitting your article "Influenza A virus surface proteins are organized to help penetrate host mucus" for consideration by *eLife*. Your article has been reviewed by three peer reviewers, including Richard A Neher as the Reviewing Editor and Reviewer #1, and the evaluation has been overseen by Arup Chakraborty as the Senior Editor. The following individual

# Open access: Transparency



The *eLife* works to improve research communication through **open science** and **open technology** innovation



NEWS • 15 DECEMBER 2020

## Open-access journal *eLife* announces ‘preprint first’ publishing model

It also plans to make reviews publicly available – for both accepted and rejected manuscripts.

Diana Kwon

The open-access journal *eLife* has unveiled plans to introduce a new publishing model. Starting next July, the journal will adopt a “publish, then review” policy, and will make all of its peer-review reports publicly available.

Under the policy, which the journal announced on 1 December, *eLife* will only review and publish papers that have already been posted on a preprint server, such as bioRxiv, medRxiv or arXiv. Submitted papers that aren’t already on preprint servers will be posted on bioRxiv or medRxiv.

# Open access: Transparency

F1000Research “open” post-publication peer-review system

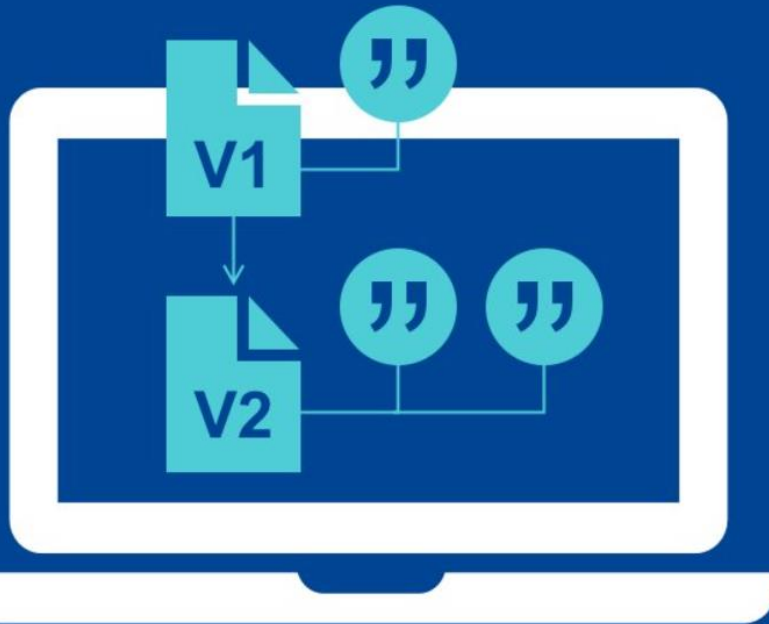
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authors are encouraged to  
publish *revisions* of their  
article. All versions of an  
article are linked and  
independently citable

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F1000Research

Open Research Europe

11/21/2021

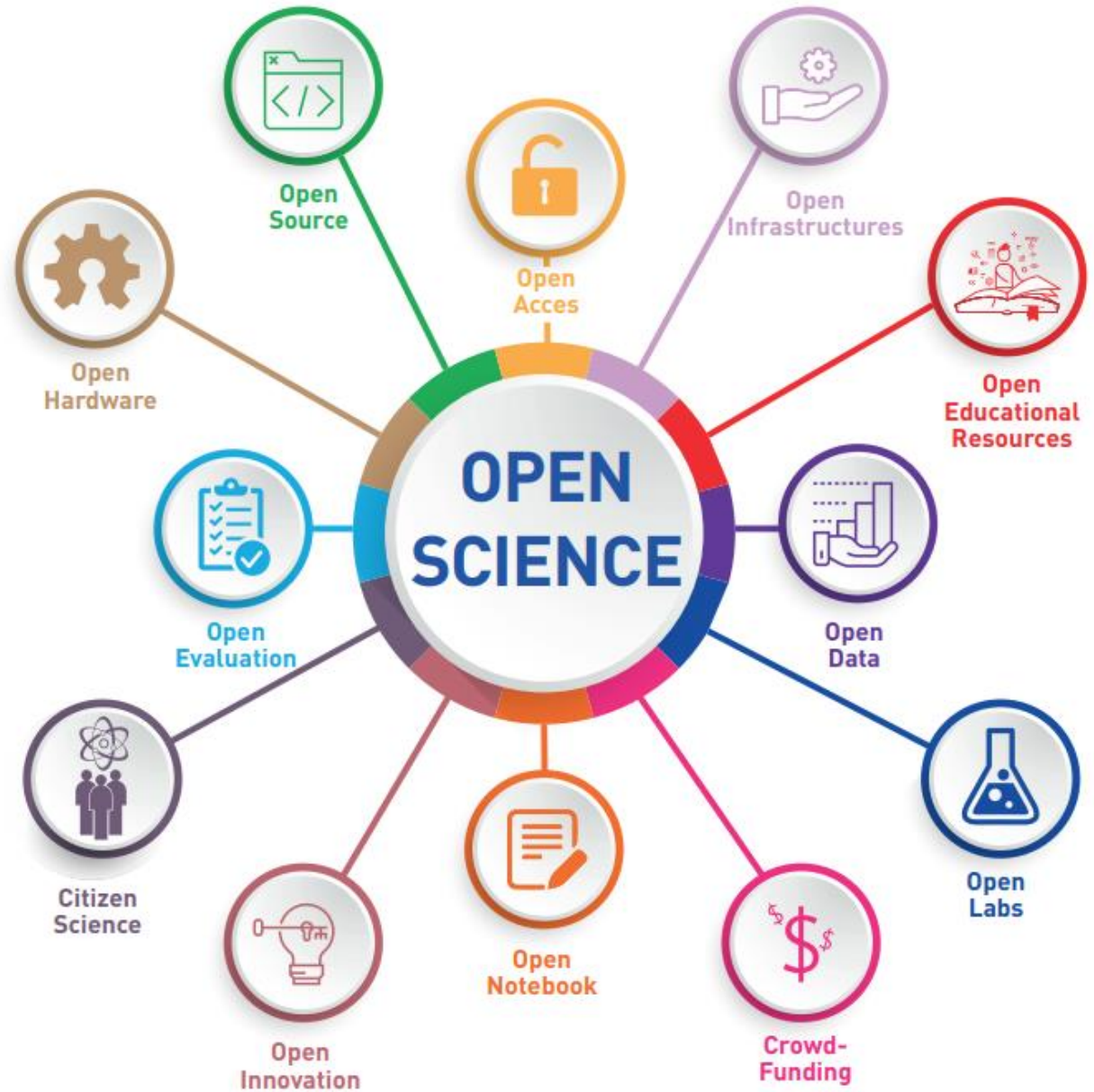
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F1000Research  
KCSE



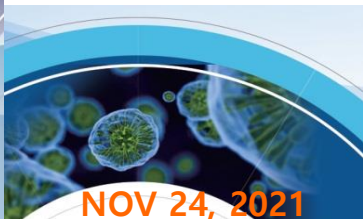
소 결론:

# Open science: 핵심가치

Transparency: 편집인의  
책임, 이해상충  
Repository  
Equity (righteous)



Components of Open Science



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AI 이슈:

출판(편집) 중심

## Job Outlook for: Editors

SOC: 27-3041      OOH: U162

Editors Quick Stats	
Total Jobs in 2016	127,400
Expected Growth	0% (Little or no change)
New Jobs To Be Added from 2016 to 2026	-100
Median Pay	\$55,000 to \$74,999



# AI

OOH HOME | OCCUPATION FINDER | OOH FAQ | OOH GLOSSARY | A-Z INDEX | OOH SITE MAP

## OCCUPATIONAL OUTLOOK HANDBOOK

Occupational Outlook Handbook > Media and Communication >

### Editors

Summary

What They Do

Work Environment

How to Become One

Pay

Job Outlook

### Summary

#### Quick Facts: Editors

2020 Median Pay ?	\$63,400 per year \$30.48 per hour
Typical Entry-Level Education ?	Bachelor's degree
Work Experience in a Related Occupation ?	Less than 5 years
On-the-job Training ?	None
Number of Jobs, 2019 ?	118,700
Job Outlook, 2019-29 ?	-7% (Decline)
Employment Change, 2019-29 ?	-8,700

What is AI? “the ability of a digital computer or computer-controlled robot to perform tasks commonly associated with intelligent beings.” - [Britannica](#)

# AI and editorial work

## How AI can support editorial teams, by taking over mundane tasks



WHAT'S NEW IN  
**PUBLISHING**

by **Esra Celebi**

Head of Marketing, SPRYLAB

By Contributor 2 years ago

### *Editorial work and AI*

The keyword research, performance optimization, and distribution -> allows editors and content creators to refocus on their core competencies.

### *AI in Content Discovery*

Find the right topics by process and interpret patterns in data at a scale; make informed decisions out of noisy, unstructured data; [Headline insights, Seasonal topic recommendations, Finding hot topics related to your content domain, Image recognition and visual search, Audience targeting and segmentation]

### *AI in Content Creation*

#### **Automated text tagging**

The Editor, a self-learning interface for text editing by The New York Times. The *Editor* automatically tags text and creates annotation based on information gathered through a set of neural networks.

#### **Content translation**

Automated translation software like Google Translate and DeepL rarely meets high journalistic standards. The EurActiv.com, a multilingual policy news website, has been experimenting with automated content translation since its inception.

# AI and editorial work

## How AI can support editorial teams, by taking over mundane tasks



WHAT'S NEW IN  
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By Contributor 2 years ago

### *Additional areas for AI in Content Creation*

Other areas AI helps with content development are:

- Adding trending keywords
- Finding synonyms
- Sentiment analysis
- Grammar check
- Image recognition
- Automated reporting
- Reformatting of articles
- Content moderation

### *AI in Content Publishing*

It can **reduce routine workload** through automation and optimisation of linking between articles. It can also be used to optimise affiliate linking by analysing content like images, audio, video, and text. Artificial Intelligence can do these tasks millions of times faster and better than any human being.

SEO (search engine optimization) plays an increasingly important role in content distribution.

## 5 AI tools that can think and write like humans

Never face the blank page again: These content automation tools use cutting edge natural language processing to create clean, natural writing.



By Greg Nichols for Robotics | April 27, 2021 -- 12:54 GMT  
(20:54 SGT) | Topic: Artificial Intelligence

### *Writesonic*

GPT-3 powered for high-performing blogs and descriptions

It is one of the first AI copywriters that offers content for [Facebook](#) and [Google Ads](#).

Writesonic also helps in generating [startup ideas](#), [YouTube video titles](#), and [video descriptions](#).

\$9.99/month with 75 credits and a professional plan at \$35/month with unlimited credits.

### *Wordsmith*

Turns data into an insightful narrative

It generates written analytics that are used by industry giants like [Yahoo](#), [Microsoft](#), and [PwC](#) to generate around 1.5 million articles every year.

Over 1000 articles per month priced at the cost of \$250.

### *AI Writer*

Top-notch content for your marketing needs.

To [generate unique text automatically](#) (for marketing needs).

It helps generate articles from scratch or improves existing articles.

One can set up auto-blogging projects.

\$19 - \$49/ month



## 5 AI tools that can think and write like humans

Never face the blank page again: These content automation tools use cutting edge natural language processing to create clean, natural writing.



By Greg Nichols for Robotics | April 27, 2021 -- 12:54 GMT  
(20:54 SGT) | Topic: Artificial Intelligence

### *QuillBot*

Paraphrasing tool with great integrations

To help you rewrite and enhance any sentence, paragraph, or article using state-of-the-art AI for word choice and short, concise content that delivers the message.

A free version with a character limit; premium version starts at \$6.67/month.

### *Article Forge*

Insightful algorithms to rewrite and enhance content

Strengthening writing by culling out unnecessary words and via effective paraphrasing.

A five-day trial, and at \$324/year and \$57/month.

# AI and editorial work



Cactus Communications announces acquisition of UNSILO, a Denmark-based technology solutions company [Cactus Communications]



Artificial Intelligence Review Assistant (AIRA), developed by open-access publisher Frontiers, helps editors, reviewers and authors evaluate the quality of manuscripts. AIRA reads each paper and can currently make up to 20 recommendations in just seconds, including the assessment of language quality, the integrity of the figures, the detection of plagiarism, as well as identifying potential conflicts of interest.

## SciScore

## KARGER

bioRxiv  
THE PREPRINT SERVER FOR BIOLOGY

## SPRINGER NATURE

Research Square

Submit to BJP  
British Journal of Pharmacology



## eLIFE

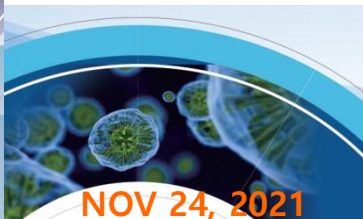
medRxiv  
THE PREPRINT SERVER FOR HEALTH SCIENCES

AACR American Association for Cancer Research

JNeurosci  
THE JOURNAL OF NEUROSCIENCE

SciScore™ is the methods reviewing tool for scientific articles

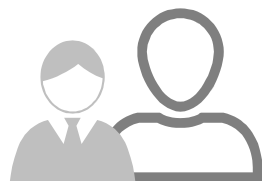




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Components of Open Science

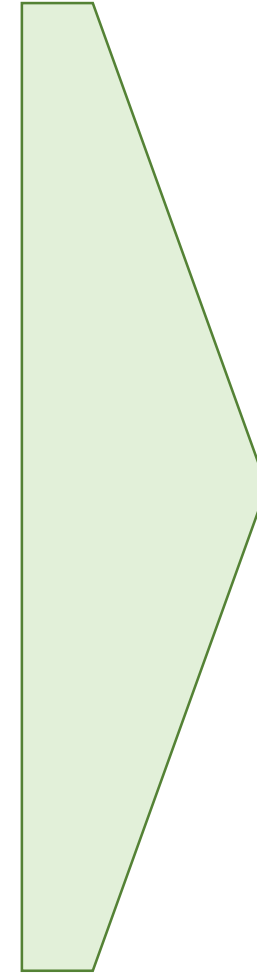
Retraction watch DB

국가연구개발혁신법

AI: 출판(편집) 중심

**Preparedness:**  
**편집인의 책임, 이해상충**

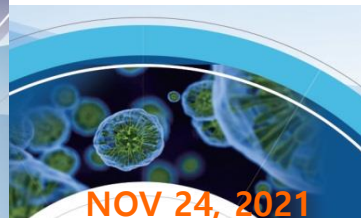
# 출판생태계의 주체 및 핵심가치



- 진실성  
(Integrity)
- 신뢰  
(Trust)
- 투명성  
(Transparency)



2021 편집인 온라인 워크숍(2021-A01)  
Virtual On-line Workshop (Live streaming)



NOV 24, 2021

# 연구 · 출판윤리 최신 지견



*“**All are equal**; but some are more equal than others ” - George Orwell*

*“**Real integrity** is doing the right thing, knowing that nobody’s going to know whether you did it or not.” - Oprah Winfrey*



감사합니다;  
윤철희, [cyun@snu.ac.kr](mailto:cyun@snu.ac.kr)