

전문가심사 잘 하기

홍성태

대한의학학술지편집인협회

Korean Association of Medical Journal Editors



좋은 학술지와 좋은 논문

- **좋은 학술지:** 학술성이 높고 창의적인 학술자료를 모아서 관련 전문가에게 정기적으로 제공하는 매체
- **좋은 논문:** 해당 분야에 지적인 진보를 만들고 독자에게 흥미를 일으키는 논문

좋은 학술지의 조건

- 정시성 준수: timeliness
- 글로벌 색인집 등재: PubMed, WoS, Scopus
- 온라인 출판: visibility by web
- DOI로 연결: linked via crossref
- 충분한 원고 확보: low accept rate
- JIF 유지 또는 상승: high impact factor
- 지속적인 향상을 위한 편집인의 노력: 회원 동참
- 안정적인 운영 재정 확보

좋은 논문의 조건

- 새로운 학술 지견을 제공: new
- 독자의 학문적 흥미를 유발: interesting
- 잘 디자인된 연구성과물: good research, randomized clinical trials,
- 결론의 근거가 충분한 논문; evidence-based
- 읽기 쉽고 이해하기 쉽게 작성한 논문: well-written
- 많이 인용되는 논문
- Articles with impact
- 높은 JIF 학술지에 출판된 논문?
- 저명한 저자의 논문?

Preferred Articles by Editors

- Articles produced by
 - prospective study
 - produced by multi-centered study
 - randomized clinical trial
 - cohort study by long-term observation
 - large scale study
- Representative study of certain groups
- Articles dealing hot issues



Articles with Impact

- Major issues
- Global issues
- Well-designed research
- Well-written manuscript
- Cited more
- Famous authors?



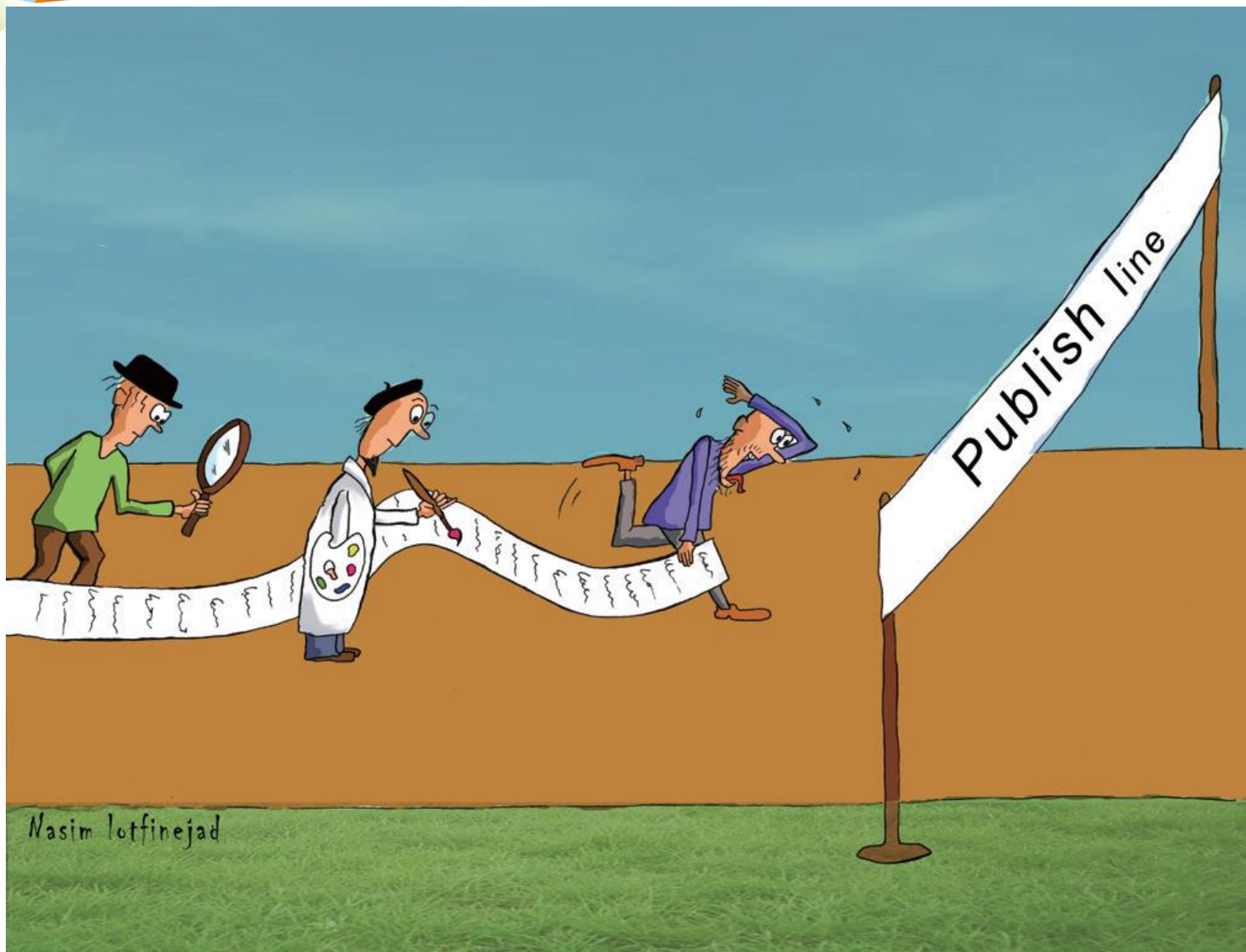
좋은 논문 고르기

- Preview (Triage)
- Peer review

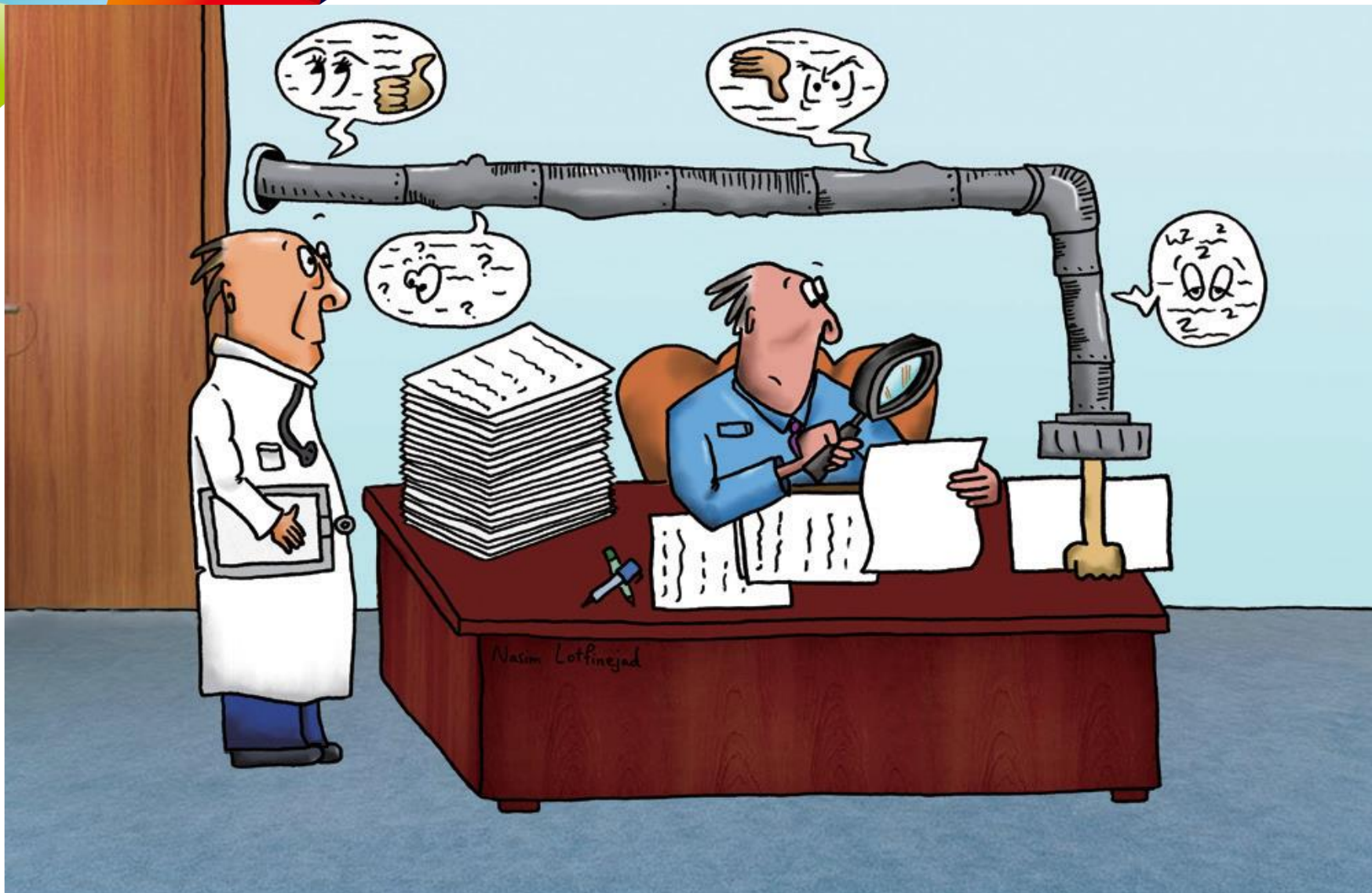
원고의 사전심사 Preview

- 원고를 심사에 회부할지를 먼저 검토
- 편집인 또는 편집진이 담당
- 원고의 주제와 내용이 학술지 scope에 합당한 지, 심사 후 출판할만한 지 검토
- 단일 핵심사항: complete story (purpose-results-conclusion)

- 학술지의 질적 수준 유지의 필수요소
- 인쇄 전에 원고를 검토: “**학술지를 통하여 공개하여도 좋은 논문인가? 학술지 독자에게 흥미로운 내용인가?**”
- Peer: 배심원
- 특정 논문의 출판에 대한 **편집인의 결정에** 대하여 해당 분야 전문가 조언의견 제시



Armen Y. Gasparyan *J Korean Med Sci* 29(2): 161-163, 2014.



Armen Y. Gasparyan *J Korean Med Sci* 2013 28(7): 970

전문가란?

- 해당 연구주제에 대하여 최근 지견까지 정확하게 파악하는 연구자
- 해당 원고의 학술적인 가치를 평가할 수 있는 연구자
- 기 발표된 자료, 그림을 알고 있는 연구자: 중복출판, 표절 감시에 핵심


- **전문성**: 편집인이 전문성을 고려하여 선정. 적
합하지 않을 경우 반환해야 함. 철저하게 전문
가답게 시행함.
- **객관성**: 내용과 연구방법을 객관적으로 평가
- **학술성**: 학술적으로 도움이 되는 의견 제시
- **윤리성**: 심사자 윤리 준수

- 주관적: 심사자에 따른 다양한 주관적 의견
- 불성실: 건성 심사
- 무관심: 비협조적 심사, 지연, 거절
- 무반응: 무시, 방치
- 비윤리적: 이해관계자 심사, 심사자윤리 위반



전문가심사의 유형

- **Open**
- **Single blind**
- **Double blind**

- Originality: 논문의 독창성, 학술성
 - Scientific importance
 - Structure: 논문 구성요소와 완성도
 - Adequacy of methods and design
 - Adequacy of interpretation
 - Brevity and clarity
 - Language
 - Ethical issues: 연구윤리, 출판윤리 준수여부
- 

- **사적이용 금지:** 미공개 자료를 먼저 보는 권한을 평가에만 활용하고 파기
- **대외비 유지:** 논문내용을 타인에게 누설 금지
- **고의 지연 금지**
- **이해관계 고지:** 이해관계에 해당하면 심사를 거절해야 함
- **익명성 준수**

전문가심사와 의견서 작성

- 신속한 진행: 제한 기간내 심사 완료
- 성실 검토: 논문내용을 꼼꼼하게 검토
- 분명한 의견 제시
- 필요한 근거자료 제공
- 대안과 함께 지적
- 예의바른 표현
- 저자에 도움되는 의견

COMMENT FROM THE EDITOR:

ONE ADDITIONAL MINOR ITEM NEEDS TO BE ADDRESSED. THE PUNCTUATION WITH REGARD TO THE AUTHOR CITATION IN THE BODY OF THE MANUSCRIPT NEEDS TO BE CHANGED TO CONFORM TO THE PARASITOLOGY RESEARCH FORMAT. FOR THIS I WILL SEND, IN A SEPARATE EMAIL, A PAGE FROM PARASITOLOGY RESEARCH FOR AN EXAMPLE. PLEASE MAKE THE CHANGES THROUGHOUT THE MANUSCRIPT

Reviewer(s)' Comments to Author:

Reviewer: 1

Comments to the Author

Identification of two beta-tubulin isotypes of *Clonorchis sinensis*
Shunyu Li, Sung-Jong Hong, Min-Ho Choi and Sung-Tae Hong

This article reports on two beta-tubulin isotypes expressed in adult *Clonorchis sinensis*. As yet few trematode beta-tubulin sequences have been reported and thus their work will be of interest to some parasitologists, although the new data presented is limited. There are a substantial number of queries and issues that need to be addressed before the work can be published.

General comments.

In some parts of the article CstB1 and CstB2 refer to the cDNA nucleotide sequence (eg in the abstract) in others the the tubulin isotypes that are encoded by them (eg page 7, line 16). This should be clarified and corrected throughout the article

Queries and Comments

Specific comments

Abstract

Page 2

L2; Was it not a PCR product synthesized using degenerate primers that was used for screening the cDNA library and identified clones that encoded the two tubulin isotypes, CstB1 and CstB2?. In addition the fact that the cDNA library was generated from adult *C. sinensis* should be included

L10; phylogenetic analysis of selected sequences.

전문가심사 관련 갈등, 윤리저촉

대한의학학술지편집인협회
Korean Association of Medical Journal Editors

- 저자의 반발
- 심사자 반발
- 심사의견 불일치
- Faking review
- Ghost review

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Publishing

September 30, 2012

Fake Peer Reviews, the Latest Form of Scientific Fraud, Fool Journals

By Josh Fischman

Scientists appear to have figured out a new way to avoid any bad prepublication reviews that dissuade journals from publishing their articles: Write positive reviews themselves, under other people's names.

Featured job from



TECNOLÓGICO
DE MONTERREY.

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Most Popular

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Fake Reviewer

Retraction Watch

Tracking retractions as a window into the scientific process

South Korean plant compound researcher faked email addresses so he could review his own studies

with 48 comments

Scientists frustrated by the so-called “[third reviewer](#)” — the one always asking for additional experiments before recommending acceptance — might be forgiven for having fantasies of being able to review their own papers.

But one Korean scientist, [Hyung-In Moon](#), managed to do just that, through what must have seemed like clever subterfuge at the time. And he got away with it for a while — until he didn't, as witnessed by this retraction [notice](#) for “Larvicidal activity of 4-hydroxycoumarin derivatives against *Aedes aegypti*,” published in *Pharmaceutical Biology*, an Informa Healthcare title:

“ The peer-review process for the above article was found to have been compromised and inappropriately influenced by the corresponding author, Professor HI Moon. As a result the findings and conclusions of these articles cannot be relied upon.

The corresponding author and the publisher wish to retract these papers to preserve the integrity of material published in the journal. The publisher acknowledges that the integrity of the peer review process should have been subject to more rigorous verification to ensure the reviews provided were genuine and impartial. The publisher apologizes for any inconvenience



Pages

[About Adam Marcus](#)

[About Ivan Oransky](#)

[The Retraction Watch FAQ, including comments policy](#)

[The Retraction Watch Store](#)

[The Retraction Watch Transparency Index](#)

[Upcoming Retraction Watch appearances](#)

[What people are saying about Retraction Watch](#)

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Fake Reviewer

Written by ivanoransky
September 24, 2012 at 10:30 am

Posted in [elsevier](#), [faked emails](#), [freely available](#), [iran retractions](#), [j geometry physics](#), [j math analysis app](#), [math retractions](#)

Retraction count grows to 35 for scientist who faked emails to do his own peer review

with 9 comments

[Hyung-In Moon](#), the South Korean plant compound researcher who [made up email addresses so he could do his own peer review](#), is now up to 35 retractions.

The four new retractions are of the papers in the *Journal of Enzyme Inhibition and Medicinal Chemistry* that initially led to suspicions when all the reviews came back within 24 hours. Here's the [notice](#), which includes the same language as Moon's 24 other retractions of studies published in Informa Healthcare journals: [Read the rest of this entry »](#)



Written by ivanoransky
September 17, 2012 at 8:30 am

Posted in [cell biology](#), [faked emails](#), [freely available](#), [hyung-in moon](#), [informa healthcare](#), [j enzyme inh med chem](#), [korea retractions](#)

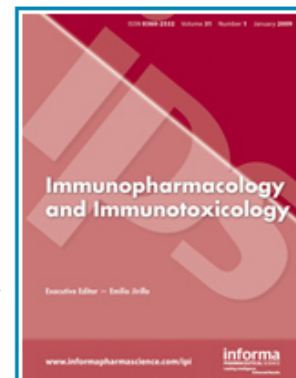
Journal editor resigned in wake of retractions for fake email addresses that enabled self-peer review

with 16 comments

The case of Hyung-In Moon — the researcher who [faked email addresses for potential peer reviewers so he could do his own peer review](#) — has already led to one resignation.

[Emilio Iirillo](#), the editor of *Immunopharmacology and Immunotoxicology*, which [retracted 20 of Moon's papers](#), stepped down earlier this year in the wake of the case, [Retraction Watch has learned](#).

Here's a [note the publisher posted on the journal's site on June 15](#): [Read the rest of this entry »](#)





Who's Afraid of Peer Review?

A spoof paper concocted by *Science* reveals little or no scrutiny at many open-access journals

On 4 July, good news arrived in the inbox of Ocorrafoo Cobange, a biologist at the Wasee Institute of Medicine in Asmara. It was the offi-

subscriptions. Most of the players are murky. The identity and location of the journals' editors, as well as the financial work-

Downloaded from www.sciencemag.org on October 9, 2013

SCIENCE 4 October 2013 vol 342: 60-65.

Ghost Reviewer? Fake Journal?

Sting to Peer Review

- **Unethical trial for editors**
- Submission of a bogus manuscript to **304 Open Access journals** by a bogus name and institution
- 255 under review process
- **157 accepted, 98 rejected, 49 no response**
- 60% with no sign of review
- India-based journals: 64 accepted, 15 rejected
- US-based journals: 29 accepted, 26 rejected
- Korean journals: 2 accepted, 4 rejected, 1 dead
- One journal was shut down.

Tangled web. The location of a journal's publisher, editor, and bank account are often continents apart.



J Bohannon Science 2013;342:60-65



Conclusion of the Sting

- Predatory journals are many among Open Access journals
- **Editor is responsible for adequate review**

- **편집인의 책임:** 투고, 심사, 선정, 출판
- **심사자 관리:** 풀 확대, 교육
- **논문의 향상:** 사전검토에 의한 수정 보완

Reviewing the Reviewers: Comparison of Review Quality and Reviewer Characteristics at the *American Journal of Roentgenology*

OBJECTIVE. The purpose of our study was to determine which manuscript reviewer characteristics are most strongly associated with reviewer performance as judged by editors of the *American Journal of Roentgenology* (AJR).

MATERIALS AND METHODS. At the AJR, manuscript reviews are rated by the journal editors on a subjective scale from 1 (lowest) to 4, on the basis of the value, thoroughness, and punctuality of the critique. We obtained all scores for AJR reviewers and determined the average score for each reviewer. We also sent a questionnaire to 989 reviewers requesting specific information regarding the age, sex, radiology subspecialty, number of years serving as a reviewer, academic rank, and practice type of the reviewer. The demographic profiles were correlated with the average quality score for each reviewer. Statistical analysis included correlation analysis and analysis of variance modeling. Reviewer quality scores were also correlated with the scoring of individual reviews and ultimate disposition of 196 manuscripts sent to the AJR during the same period.

RESULTS. Responses to the questionnaire were obtained from 821 reviewers (83.0%), for whom quality scores were available for 714 (87.0%). Correlation analysis shows that the quality score of reviewers strongly correlated with younger age ($p = 0.001$). A statistically significant correlation between quality score and practice type was seen ($p = 0.008$), with reviewers from academic institutions receiving higher scores. No significant correlation was found between quality score and sex ($p = 0.72$), years of reviewing ($p = 0.26$), academic rank ($p = 0.10$), or the ultimate disposition of the manuscript ($p = 0.40$). The quality score of the reviewers showed no variation by subspecialty ($p = 0.99$).

CONCLUSION. The highest-rated AJR reviewers tended to be young and from academic institutions. The quality of peer review did not correlate with the sex, academic rank, or subspecialty of the reviewer.

AJR 2005; 184:
1731

Kliwer MA et al.



Scoring Peer Review, ICMJE

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Korean Association of Medical Journal Editors



- 1 unacceptable effort and content
- 2 unacceptable effort or content
- 3 acceptable
- 4 commendable
- 5 exceptional, hard to improve

심사위원 심사결과

심사위원	1차	2차	3차	4차	5차
Seok Jin Kim (kstwoh@korea.ac.kr) 평가하기	Review again after revision 완료	Publish as it is 완료			
Jin Seok Kim (hemakim@yuhs.ac) 평가하기	Review again after revision 완료	Review again after revision 완료			

심사위원 평가

심사위원	평가자	Score	평가자 참고사항
Seok Jin Kim (kstwoh@korea.ac.kr)	Sung-Tae Hong (hst@snu.ac.kr)	3 acceptable	
Jin Seok Kim (hemakim@yuhs.ac)	Sung-Tae Hong (hst@snu.ac.kr)	5 exceptional, hard to improve	excellent review

편집위원 심사결과

편집위원	1차	2차	3차	4차	5차
Chul Won Choi (bonnie@korea.ac.kr)					

간행위원회 심사결과

간행위원회	1차	2차	3차	4차	5차
사무국	Review again after revision	Publish after revision	Publish as it is		

간행위원회 심사결과 입력

논문수정일

구분	1차	2차	3차	4차	5차
논문 수정 의뢰일 예) 2006-01-01	2014-05-28	2014-06-26			
수정 논문 회수일 예) 2006-01-01	2014-06-06	2014-07-14			

파일명	파일종류	등록일	논문파일 재등록
4th 논문파일			
파일명	파일종류	등록일	논문파일 재등록
5th 논문파일			
파일명	파일종류	등록일	논문파일 재등록
Final 논문파일			
파일명	파일종류	등록일	논문파일 재등록
A_20140487_1_final_1.docx	Title Page	2014-03-03	
A_20140487_2_final.docx	Main Body	2014-03-29	
A_20140487_3_final_1.pptx	Image File	2014-03-03	
A_20140487_5_final_1.pdf	Graphic Abstract	2014-03-03	
저자의견	1차 수정 내용	2차 수정 내용	

심사위원 심사결과

심사위원	1차	2차	3차
Seok Jin Kim (kstwoh@korea.ac.kr) 평가하기	Review again after revision 완료	Publish as it is 완료	
Jin Seok Kim (hemakim@yuhs.ac) 평가하기	Review again after revision 완료	Review again after revision 완료	

심사위원 평가

심사위원	평가자	Score	평가
Seok Jin Kim (kstwoh@korea.ac.kr)	Sung-Tae Hong (hst@snu.ac.kr)	3 acceptable	
Jin Seok Kim (hemakim@yuhs.ac)	Sung-Tae Hong (hst@snu.ac.kr)	5 exceptional, hard to improve	excellent review

편집위원 심사결과

편집위원	1차	2차	3차	4차	5차
Chul Won Choi (bonnie@korea.ac.kr)					

Electronic manuscript management system of the Journal of Korean Medical Science - Internet ...
 http://esubmit.jkms.org/admin/jscore.php?cat=1&order_num=2014-0487&id=hemakim@yuhs.ac&atime=1

* 접수번호 : 2014-0487
 * 심사위원 : Jin Seok Kim (hemakim@yuhs.ac)

Review items

originality / scientific importance / adequacy of methods / brevity & clarity / adequacy of interpretation

Scoring of reviewers

	Score
1 unacceptable effort and content	<input type="radio"/>
2 unacceptable effort or content	<input type="radio"/>
3 acceptable	<input type="radio"/>
4 commendable	<input type="radio"/>
5 exceptional, hard to improve	<input checked="" type="radio"/>
Total	5

평가자 참고사항

excellent review

평가하기

Scoring Review Comments in JKMS

Scores	No.(%) of scored reviews by year		
	2009 N = 1009	2013 N = 685	2014 N = 650
5	2 (0.2%)	4(0.6%)	7(1.1%)
4	240(23.8%)	107(15.6%)	119(18.3%)
3	615(61.1%)	411(60.0%)	405(62.3%)
2	130(12.9%)	159(23.2%)	115(17.7%)
1	21(2.1%)	4(0.6%)	4(0.6%)
Decline invitation	736/1905(38.6%)		
No review after accept	341/1350(25.3%)		

Scoring Conclusion in JKMS

- Quality of peer reviews in JKMS
: an acceptable degree
- Young age of peer reviewers
: a better response rate
- 대한의학회 우수심사자상

제 2015-607 호

JKMS 우수심사자상

서울대학교 의과대학
팽진철

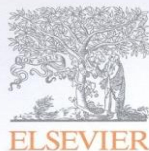
귀하는 2014년도 Journal of Korean Medical Science의 논문 전문가심사자 중에서 우수심사자 'Best Reviewer'로 선정되었기에 그 업적을 기려 이 상을 드립니다.

2015년 3월 24일



대한의학학회
회장 김동익





Sung-Tae Hong
Seoul National University,
College of Medical Sciences,
Department of Parasitology and Tropical Medicine,
Seoul 110-799,
South Korea

Dear Dr Sung-Tae

I am delighted to recognise the contribution you have made to "Parasitology International" and
enclose your certificate as a **Top Reviewer in 2011**

Reviewers play an essential part in science and in scholarly publishing. For more than 300 years,
scientists and scholars have relied upon peer review to validate research, engage other specialists in
the support of submitted work, and increase networking possibilities within specific specialist
communities.

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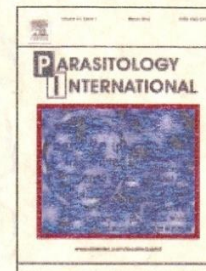
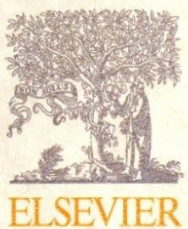
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Thank you for your continued support.

Yours sincerely,

Dale Seaton,
Publisher, Elsevier

P.S. You can register for the latest *Elsevier Reviewers' Update* at <http://www.elsevier.com/reviewers>



Journal of Parasitology International
Top Reviewer in 2011

Awarded to:

Sung-Tae Hong

*For Exceptional Contribution to the Quality of
Parasitology International*


Dale Seaton

*Dale Seaton,
Executive Publisher, Elsevier*

Advice from Elsevier Journals


- **Be critical**
- Justify all criticisms by references
- Check 'Aims and Scope'
- Clear recommendation
- Number your comments
- Be specific: page, line
- Be careful not to identify yourself

- **Professional honor**
- Ensure the subject is within your purview of expertise
- Read the abstract first
- Original? Reproduced?
- Examine tables and figures
- Statistical analysis: sufficient number
- Methods: reliable laboratory supports
- Discussion makes sense: unnecessary conjecture, redundant statement, unfounded conclusion

- Manuscript: concise, well-organized
 - See quality of figures or photos
 - Following the 'Instructions to Authors'
 - Not blinded: reputation of institution, potential conflicts of interest
 - Documentation of IRB & informed consent, IACUC
 - Typographical errors / mistakes in references?
 - Believe or suspect? Any scientific fraud or duplicated?
- 



Checklist of Peer Review

1. Did the reviewer discuss the importance of the research question?
 2. Did the reviewer discuss the originality of the paper?
 3. Did the reviewer clearly identify the strengths and weaknesses of the method (study design, data collection and data analysis)?
- 

Checklist of Peer Review

4. Did the reviewer make specific **useful comments on the writing, organization, tables and figures** of the manuscript?
5. Were the reviewer's **comments constructive**?
6. Did the reviewer **supply appropriate evidence** using examples to substantiate their comments?

Checklist of Peer Review

7. Did the reviewer comment on the author's interpretation of the results?

8. How would you rate the quality of this review overall?

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- 심사자 주관에 의한 영향이 크다
- 많은 시간을 소모하여 출판이 지연된다
- 비용을 초래한다
- 윤리위반 심사에 의한 피해가 발생한다
- 특정 심사자에 과부하가 생긴다

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