Альтернативные формы рецензирования, или Альтернатива рецензированию? О возможностях развития “open peer review” в российском академическом сообществе

Alternative Forms of Peer-Reviewing Or Alternatives to Peer-Reviewing? Of the Potentials of “Open Peer Review” in the Russian Academic Community

VI-я Международная научно-практическая конференция «Научное издание международного уровня - 2017: мировая практика подготовки и продвижения публикаций»

АНРИ – НЭИКОН

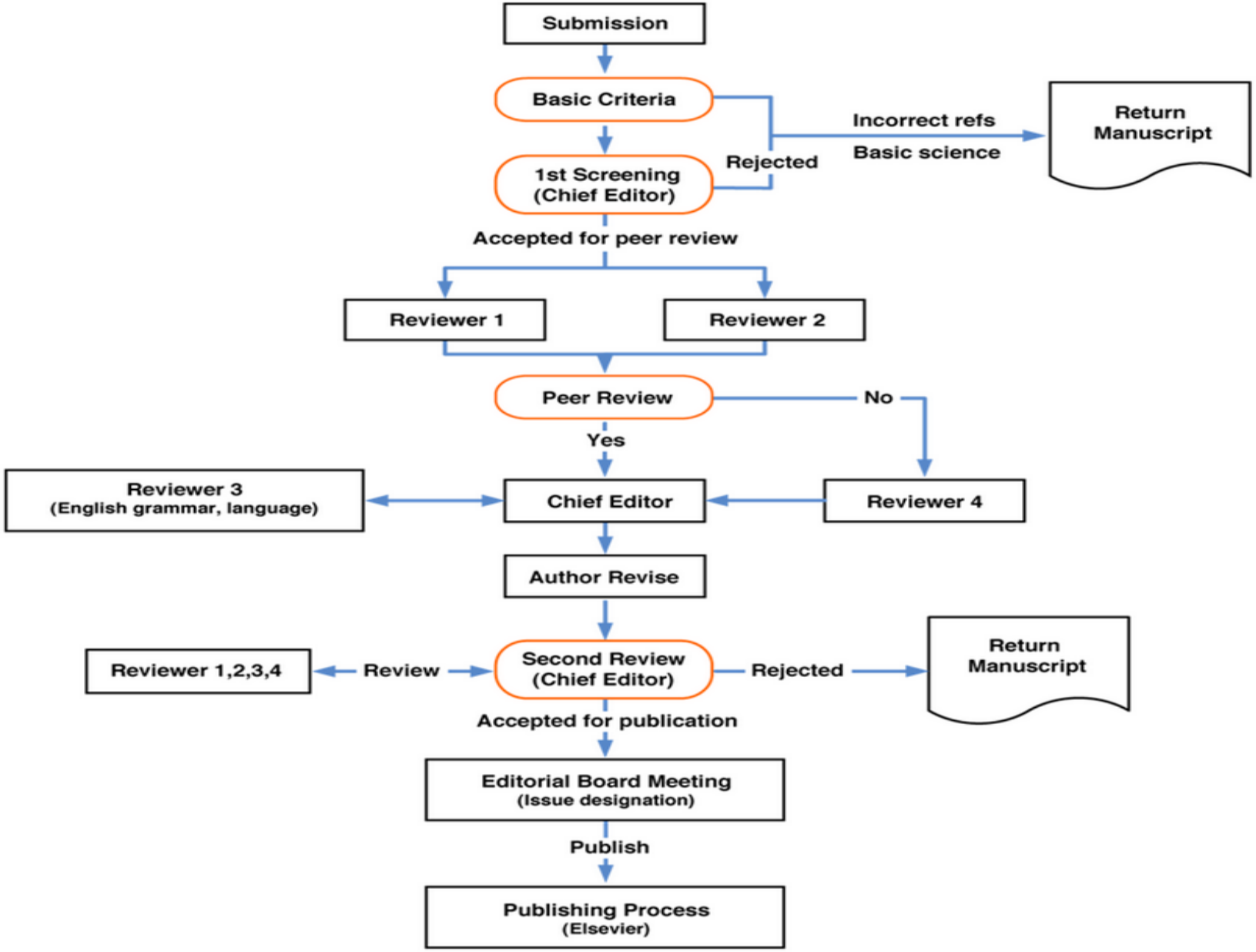
Москва, 18-21 апреля 2017 г.

История научного рецензирования

1. Рецензирование в науке - процедура экспертизы и оценки научного результата (публикации) членами сообщества. Это форма самоконтроля участников процесса производства научного знания.
2. Рецензирование исторически впервые упоминается в работах средневековых медиков: Али аль-Рухави “Адаб аль-табиб” (Этика врача) – конец IX – начало X вв.*
3. Научное рецензирование в журнале в современном виде появляется в “The Royal Society of London” в журнале “Philosophical Transactions” (1660-е гг.): рукописи писем, получаемые редакцией, должны быть проверены членами Королевского общества
4. Дальнейшее развитие системы рецензирования в “The Royal Society of Edinburgh” и в журнале “Philosophical Transactions” (1730-1750-е гг.): рецензенты, как внешние эксперты и предметные специалисты, подтверждают или опровергают качество*.

* Источник: Spier R. The history of the peer-review process // TRENDS in Biotechnology. August 2002. Vol.20. No.8. Pp. 357-358. DOI: 10.1016/S0167-7799(02)01985-6.

Процесс рецензирования в научном журнале*



* Источник: What is peer review? // Elsevier Science, 2017. https://www.elsevier.com/reviewers/what-is-peer-review.

Социология научного рецензирования

1. Научный текст внешне имеет форму сакрального текста – терминология и единый язык для производства и распространения текстов.
2. Два уровня рецензирования научных результатов в издательской практике и два кластера рецензентов :
   - **Избранные** эксперты оценивают рукопись научной работы – через рецензию.
   - **Читатели** оценивают публикацию научной работы – через цитирование.

Читатели = участники профессионального сообщества = авторы.

3. Система рецензирования воплощает все нормы научного этоса Роберта Мертона:

- КОММУНИЗМ = признание приоритета всем сообществом и и всеобщность прав на научный результат
- УНИВЕРСАЛИЗМ = вне-личностная оценка научных достижений
- БЕСКОРЫСТНОСТЬ = отсутствие личной заинтересованности в научной работе
- ОРГАНИЗОВАННЫЙ СКЕПТИЦИЗМ = критичное отношение к собственным идеям и идеям коллег.

Вызовы системе научного рецензирования

1. Информационный вал как следствие тотальной тенденции оценить научные результаты

В начале XIX века публиковалось около 100 научных журналов или 10 000 научных «статей» ежегодно.

В 2016 году в мире выпускалось порядка 36 000 академических журналов или 10 000 статей ежедневно.

В 2012 гг. 12 ведущих академических издателей (Elsevier, Wiley, T & F, Springer Nature и т.д.) производили*:

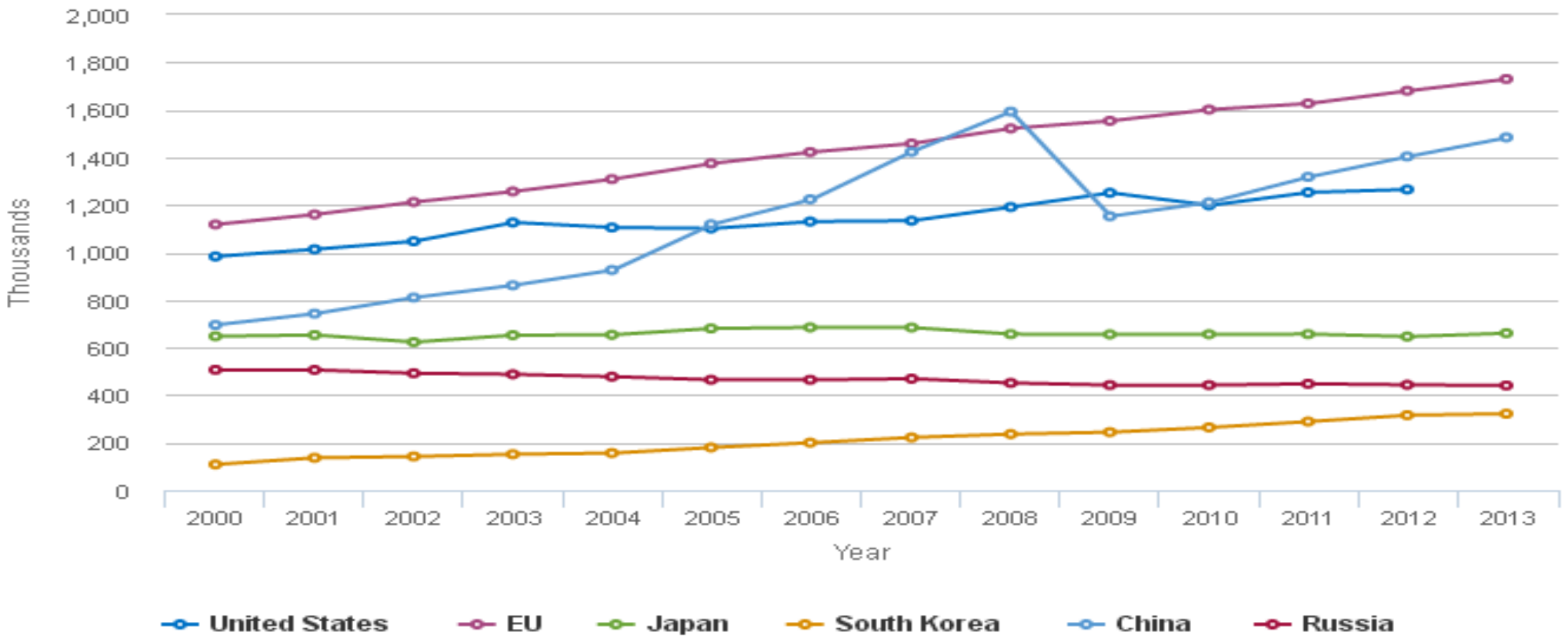
- 973 000+ статей опубликовано
- 2 432 800+ рукописей подано
- 4 420 000+ рецензий сделано
- 22 120 000 часов затрачено на производство рецензий.

* Источник: Warne M. Rewarding reviewers – sense or sensibility? A Wiley study explained // Learned Publishing. 2016. Iss. 29. Pp. 41–50. DOI: 10.1002/leap.1002.

Вызовы системе научного рецензирования

2. Массовизация научной деятельности – рост корпуса исследователей

Figure 3-39
Estimated number of researchers in selected regions/countries: 2000–13



* Источник: Figure 3-39: Estimated number of researchers in selected regions / countries: 2000–13 // Science and Engineering Indicators 2016. https://www.nsf.gov/statistics/2016/nsb20161/#/figures

Вызовы системе научного рецензирования

3. Следствия массовизации научной деятельности.

- Десакрализация научной деятельности – предметная неопределенность (трансдисциплины), размытость научной терминологии, научное многоязычие.
- Массовый читатель лезет оценивать научный результат через профанацию научного текста в общенаучных журналах типа Science или Nature и в «науч-попе» типа Scientific American и т.п.
- Массовое обсуждение научных проблем и научных публикаций в социальных академических сетях.

Вызовы системе научного рецензирования

Elisa Giaretta 1.79

University of Verona

What comes first: paper writing or journal choice?

What do you do first?

Topics

Scientific Research

Question f

Альтернативы научному рецензированию? Скорее альтернативные модели рецензирования

1. Публикация имен рецензентов и рецензированных работ на сайтах журналов.
2. Публикация текстов рецензий на сайтах журналов.
3. Публикация рецензий читателей к опубликованной статье.
4. Воздержание от публикации рецензий любыми читателями на неопубликованную рукопись! Сильно зависит от сообщества.

Модель Collaborative Peer Review в проекте *Frontiers IN*

Collaborative Peer Review

- Frontiers reviews are standardized, rigorous, fair, constructive, efficient and transparent;
- Two review phases: an independent review and an interactive, collaborative phase;
- Reviewers and the handling Editor are acknowledged on published articles;
- Average time to final decision: 93 days.

http://home.frontiersin.org/about/review-system

Публикация имен редакторов и рецензентов

THIS ARTICLE IS PART OF THE RESEARCH TOPIC
Neural Computation in Embodied Closed-Loop Systems for the Generation of Complex Behavior: From Biology to Technology

HYPOTHESIS & THEORY ARTICLE

Front. Neurorobot., 08 March 2017 | https://doi.org/10.3389/fnbot.2017.00012

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Download Article Export citation

1,069 TOTAL VIEWS

Am score 8

View Article Impact

Motor-Skill Learning in an Insect Inspired Neuro-Computational Control System

Eleonora Arena[1], Paolo Arena[1,2], Roland Strauss[3] and Luca Patané[1*]

[1]Dipartimento di Ingegneria Elettrica, Elettronica, e Informatica, University of Catania, Catania, Italy
[2]National Institute of Biostructures and Biosystems, Rome, Italy
[3]Institut für Zoologie III (Neurobiologie), University of Mainz, Mainz, Germany

In nature, insects show impressive adaptation and learning capabilities. The proposed computational model takes inspiration from specific structures of the insect brain: after proposing key hypotheses on the direct involvement of the mushroom bodies (MBs) and on their neural organization, we developed a new architecture for motor learning to be applied in insect-like walking robots. The proposed model is a nonlinear control system based on spiking neurons. MBs are modeled as a nonlinear recurrent spiking neural network (SNN) with novel characteristics, able to memorize time evolutions of key parameters of the neural motor controller, so that existing motor primitives can be improved. The adopted control scheme enables the structure to efficiently cope

EDITED BY

Poramate Manoonpong

University of Southern Denmark Odense, Denmark

REVIEWED BY

Sakyasingha Dasgupta

IBM Research - Tokyo, Japan

Björn Brembs

University of Regensburg, Germany

The editor and reviewers' affiliations are the latest provided on their Loop research profiles and may not reflect their situation at time of review.

* Источник: https://doi.org/10.3389/fnbot.2017.00012

Публикация информации по редакторам

Mehdi Khamassi

Tenured Research Scientist
Université Pierre et Marie Curie
Habilitation
Paris, France

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30,374 Total Views
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Brief Bio

I am a tenured researcher (CNRS) at the Institute for Intelligent Systems and Robotics, Université Pierre et Marie Curie (UPMC), Paris, France, and a visiting researcher at the Center for Mind/Brain Sciences at the University of Trento, Italy. I obtained my PhD in Cognitive Neuroscience from UPMC in 2007, and my Habilitation to Direct Researches in Biology from UPMC ...

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8 Editorial Contributions

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2 Reviewed Publications

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* Источник: http://loop.frontiersin.org/people/468/overview

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A Neurocomputational Model of Goal-Directed Navigation in Insect-Inspired Artificial Agents

Dennis Goldschmidt · Poramate Manoonpong · Sakyasingha Dasgupta

Frontiers in Neurorobotics
Published on 12 Apr 2017

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Модель Open peer review in *Royal Society Open Science*

ROYAL SOCIETY OPEN SCIENCE

A physical description of the adhesion and aggregation of platelets

Bastien Chopard, Daniel Ribeiro de Sousa, Jonas Lätt, Lampros Mountrakis, Frank Dubois, Catherine Yourassowsky, Pierre Van Antwerpen, Omer Eker, Luc Vanhamme, David Perez-Morga, Guy Courbebaisse, Eric Lorenz, Alfons G. Hoekstra, Karim Zouaoui Boudjeltia

Published 12 April 2017. DOI: 10.1098/rsos.170219

Abstract

The early stages of clot formation in blood vessels involve platelet adhesion–aggregation. Although these mechanisms have been extensively studied, gaps in their understanding still persist. We have performed detailed *in vitro* experiments, using the well-known Impact-R device, and developed a numerical model to better describe and understand this phenomenon. Unlike previous studies, we took into account the differential role of pre-activated and non-activated platelets, as well as the three-dimensional nature of the aggregation process. Our investigation reveals that blood albumin is a major parameter limiting platelet aggregate formation in our experiment. Simulations are in very good agreement with observations and provide quantitative estimates of the adhesion and aggregation rates that are hard to measure experimentally. They also provide a value of the effective diffusion of platelets in blood subject to the shear rate produced by the Impact-R.

1. Introduction

KEYWORDS

mathematical model, platelet deposition, adhesion and aggregation rates, shear-induced diffusion, whole blood in vitro

* Источник: http://rsos.royalsocietypublishing.org/content/royopensci/4/4/170219.reviewer-comments.pdf

Публикация текстов рецензий (без фамилии рецензента)

THE ROYAL SOCIETY PUBLISHING

ROYAL SOCIETY OPEN SCIENCE

A physical description of the adhesion and aggregation of platelets

Bastien Chopard, Daniel Ribeiro de Sousa, Jonas Lätt, Lampros Mountrakis, Frank Dubois, Catherine Yourassowsky, Pierre Van Antwerpen, Omer Eker, Luc Vanhamme, David Perez-Morga, Guy Courbebaisse, Eric Lorenz, Alfons G. Hoekstra and Karim Zouaoui Boudjeltia

Article citation details
R. Soc. open sci. 4: 170219.
http://dx.doi.org/10.1098/rsos.170219

Review timeline
Original submission: 8 December 2016
Revised submission: 8 March 2017
Final acceptance: 13 March 2017

Note: Reports are unedited and appear as submitted by the referee. The review history appears in chronological order.

Note: This manuscript was transferred from another Royal Society journal with peer review.

Review History

RSOS-161006.R0 (Original submission)

Review form: Reviewer 1

Is the manuscript scientifically sound in its present form?
No

Are the interpretations and conclusions justified by the results?
No

Is the language acceptable?
Yes

Is it clear how to access all supporting data?
Yes

Do you have any ethical concerns with this paper?
No

* Источник: http://rsos.royalsocietypublishing.org/content/royopensci/4/4/170219.reviewer-comments.pdf

Публикация текстов рецензий (с фамилией рецензента)

end the current study describes the specific case of platelet aggregation at polycarbonate in the Impact-R and any interpretation of the numerical model findings need to be clearly restricted to this very limited context.

Review form: Reviewer 2 (Naphtali Savion)

Is the manuscript scientifically sound in its present form?
Yes

Are the interpretations and conclusions justified by the results?
Yes

Is the language acceptable?
Yes

Is it clear how to access all supporting data?
No

Do you have any ethical concerns with this paper?
No

Have you any concerns about statistical analyses in this paper?
No

Recommendation?
Accept with minor revision (please list in comments)

Comments to the Author(s)
This is a well-designed and performed study presenting a detailed set of in-vitro experiments accompanied by a proposed numerical model (fitting the experimental data). This model helps to better describe and understand the early stages of platelets adhesion-aggregation. The study provides evidence that blood albumin is a major parameter limiting platelet aggregate formation. It provides quantitative estimates of the adhesion and aggregation rates as well as a value of the effective diffusion of platelets in blood subject to low shear rate.
Comments:
1. The 3D structure of platelet aggregates (Fig 2) and the proposed model are relevant to low shear (100 s-1) at which the aggregate average size is small. It is of interest to explore (or discuss) the 3D shape of platelet aggregates at a higher shear rate (1800 or 5000 s-1) at which the

* Источник: http://rsos.royalsocietypublishing.org/content/royopensci/4/4/170219.reviewer-comments.pdf

Публикация решения редактора

Minor comments:

5. Fig. 6: it should be “non-activated platelets”
6. Page 5 right line 9: delete the word “this”.

Naphtali Savion, PhD
Goldschleger Eye Research Institute
and Department of Human Molecular Genetics and Biochemistry,
Sackler Faculty of Medicine, Tel Aviv University, Tel-Aviv, Israel
E-mail: eyeres@post.tau.ac.il

Decision letter (RSOS-161006)

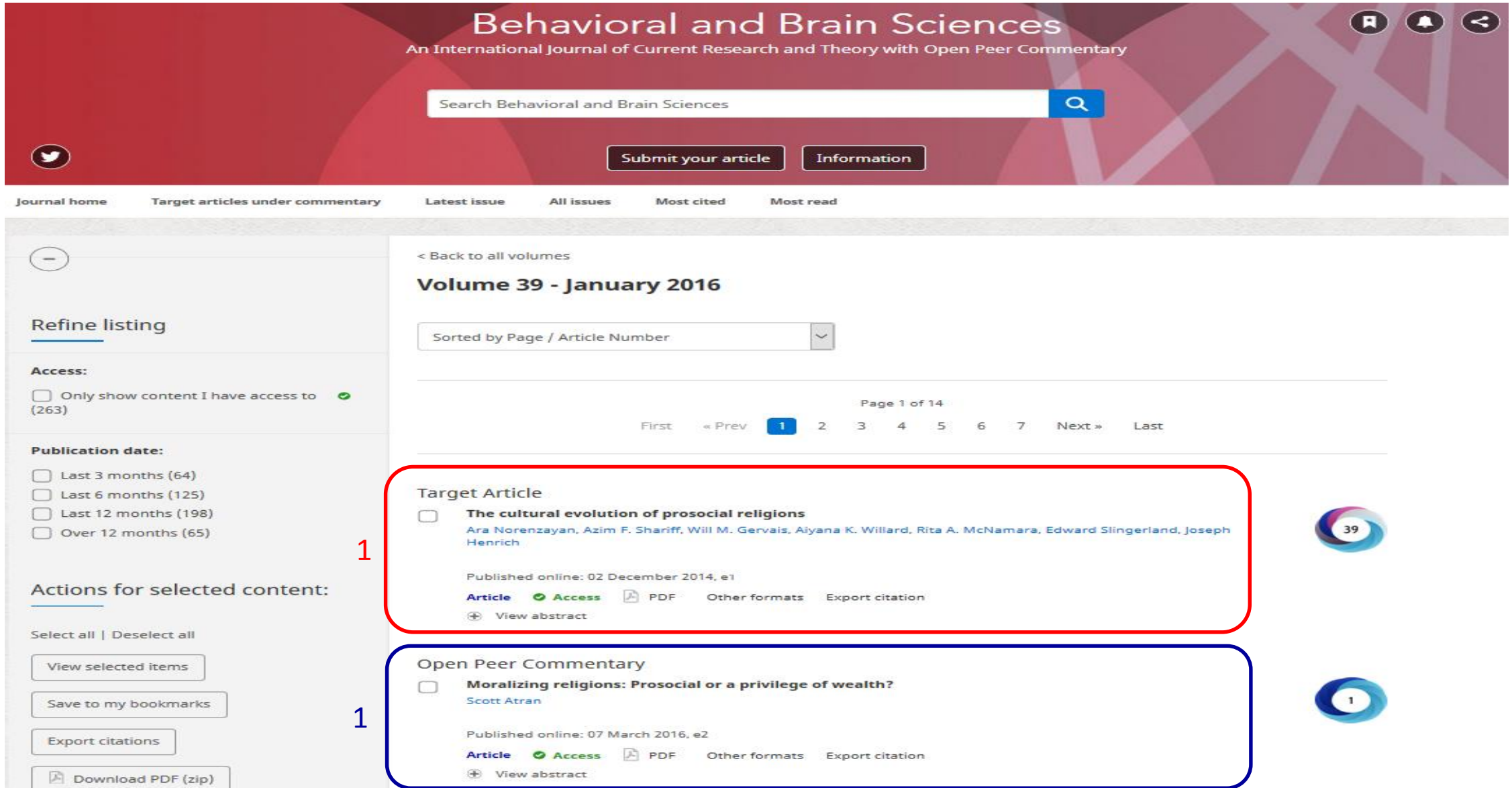
08-Feb-2017

Dear Dr Chopard,

Your manuscript ID RSOS-161006 entitled "A physical description of the adhesion and aggregation of platelets" which you submitted to Royal Society Open Science, has now been assessed by the original reviewers of this manuscript. The comments from reviewers are included at the bottom of this letter.

* Источник: http://rsos.royalsocietypublishing.org/content/royopensci/4/4/170219.reviewer-comments.pdf

Модель **Open Peer Commentary** в ***Behavioral and Brain Sciences*** (CUP)



* Источник: https://www.cambridge.org/core/journals/behavioral-and-brain-sciences/issue/0009F28DF9EDDEA8BE73402A78E14895?sort=canonical.position%3Aasc&pageNum=1&searchWithinIds=0009F28DF9EDDEA8BE73402A78E14895&productType=JOURNAL_ARTICLE&template=cambridge-core%2Fjournal%2Farticle-listings%2Flistings-wrapper&hideArticleJournalMetaData=true&displayNasaAds=false

Open Peer Commentary – рецензии на опубликованные статьи

1

Explaining the success of karmic religions
Claire White, Paulo Sousa, Karolina Prochownik

Published online: 07 March 2016, e28

Article Access PDF Other formats Export citation

View abstract

1

Authors' Response

Parochial prosocial religions: Historical and contemporary evidence for a cultural evolutionary process
Ara Norenzayan, Azim F. Shariff, Will M. Gervais, Aiyana K. Willard, Rita A. McNamara, Edward Slingerland, Joseph Henrich

Published online: 07 March 2016, e29

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2

Target Article

Cultural group selection plays an essential role in explaining human cooperation: A sketch of the evidence
Peter Richerson, Ryan Baldini, Adrian V. Bell, Kathryn Demps, Karl Frost, Vicken Hillis, Sarah Mathew, Emily K. Newton, Nicole Naar, Lesley Newson, Cody Ross, Paul E. Smaldino, Timothy M. Waring, Matthew Zefferman

Published online: 28 October 2014, e30

Article Access PDF Other formats Export citation

View abstract

2

Open Peer Commentary

Testing the cultural group selection hypothesis in Northern Ghana and Oaxaca
Cristina Acedo-Carmona, Antoni Gomila

Published online: 09 March 2016, e31

* Источник: https://www.cambridge.org/core/journals/behavioral-and-brain-sciences/issue/0009F28DF9EDDEA8BE73402A78E14895?sort=canonical.position%3Aasc&pageNum=1&searchWithinIds=0009F28DF9EDDEA8BE73402A78E14895&productType=JOURNAL_ARTICLE&template=cambridge-core%2Fjournal%2Farticle-listings%2Flistings-wrapper&hideArticleJournalMetaData=true&displayNasaAds=false

О возможностях развития “open peer review” в российском академическом сообществе

Спасибо за внимание!

АРЕФЬЕВ Павел Геннадьевич

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