



# Peer Community In...

Denis Bourguet

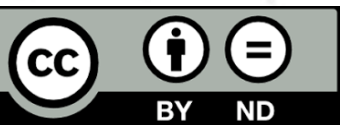
Benoit Facon

Thomas Guillemaud

Marjolaine Hamelin



A free recommendation process of  
preprints based on peer reviews



PCI

A complex, abstract network diagram serves as the background. It consists of numerous small, light-blue circular nodes connected by thin, light-blue lines. The nodes are distributed across the entire frame, with a higher density in the center, creating a sense of a global or interconnected system.

# We're facing several problems

---

# Science quality issues

---

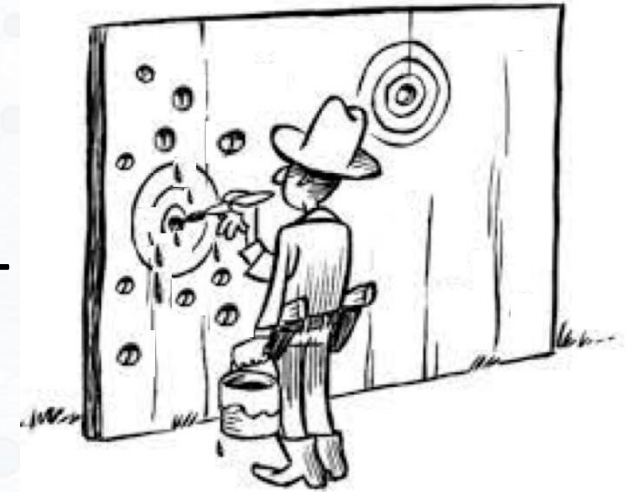
- publication bias toward positive results

Begley, C. G.; Ellis, L. M. (2012). "Drug Development: Raise Standards for Preclinical Cancer Research". *Nature*.  
Baker, M. 1,500 scientists lift the lid on reproducibility. *Nature* 533, 452–454 (2016). <https://doi.org/10.1038/533452a>  
Open Science Collaboration, Estimating the reproducibility of psychological science. *Science* 349, aa4716 (2015).

# Science quality issues

---

- publication bias toward positive results
- story-telling – HARKing (Hypothesis stated After Results are Known) – p-hacking

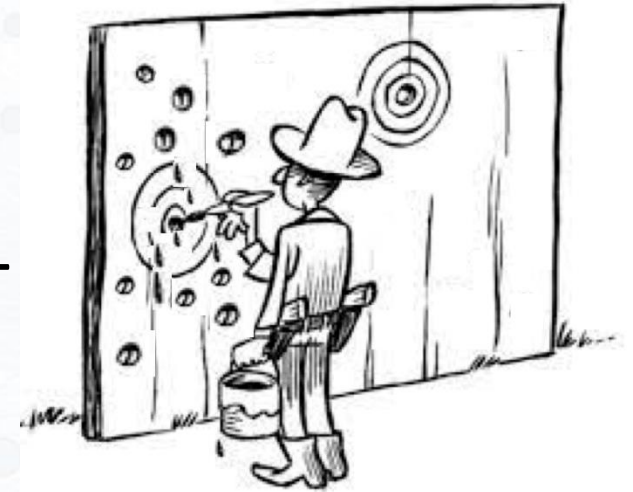


Begley, C. G.; Ellis, L. M. (2012). "Drug Development: Raise Standards for Preclinical Cancer Research". *Nature*.  
Baker, M. 1,500 scientists lift the lid on reproducibility. *Nature* 533, 452–454 (2016). <https://doi.org/10.1038/533452a>  
Open Science Collaboration, Estimating the reproducibility of psychological science. *Science* 349, aa4716 (2015).

# Science quality issues

---

- publication bias toward positive results
- story-telling – HARKing (Hypothesis stated After Results are Known) – p-hacking
- methods: not clear - not available
- data not available



Begley, C. G.; Ellis, L. M. (2012). "Drug Development: Raise Standards for Preclinical Cancer Research". *Nature*.  
Baker, M. 1,500 scientists lift the lid on reproducibility. *Nature* 533, 452–454 (2016). <https://doi.org/10.1038/533452a>  
Open Science Collaboration, Estimating the reproducibility of psychological science. *Science* 349, aa4716 (2015).



# Science quality issues

---

- publication bias toward positive results
- story-telling – HARKing (Hypothesis stated After Results are Known) – p-hacking
- methods: not clear - not available
- data not available

➔ 20-60% studies are non reproducible



Begley, C. G.; Ellis, L. M. (2012). "Drug Development: Raise Standards for Preclinical Cancer Research". *Nature*.  
Baker, M. 1,500 scientists lift the lid on reproducibility. *Nature* 533, 452–454 (2016). <https://doi.org/10.1038/533452a>  
Open Science Collaboration, Estimating the reproducibility of psychological science. *Science* 349, aa4716 (2015).

# Inefficient & non transparent system

---

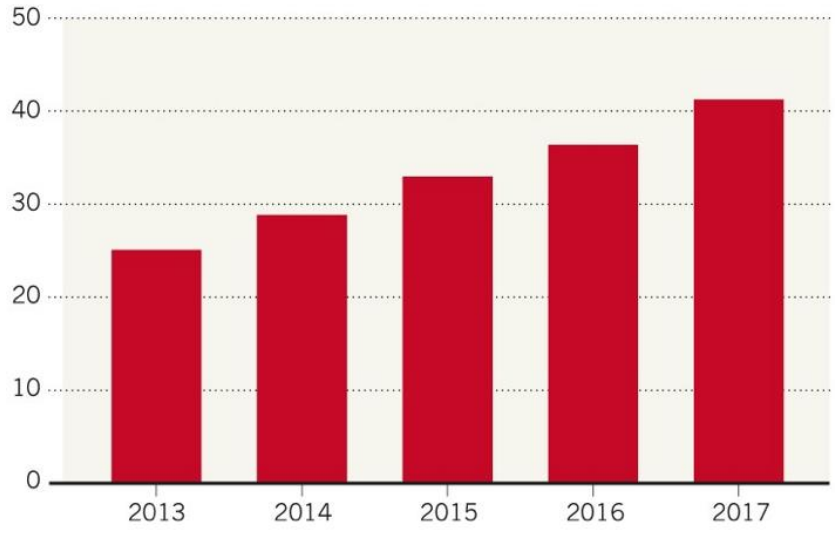
- submissions/rejections in cascade
- > 1-2 years to read a paper
- waste of evaluation
- reviewers availability issue



# A system at the end of its rope

---

**Number of Reviewers  
invited (millions)**

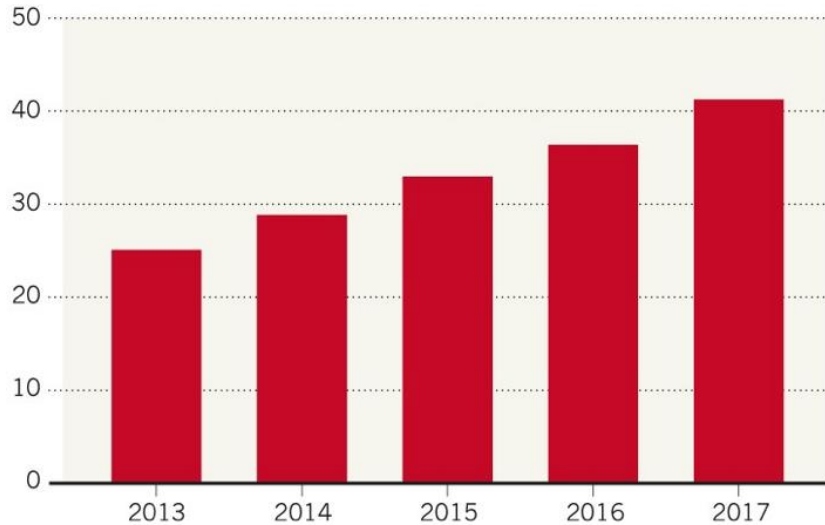


More and more reviewers needed

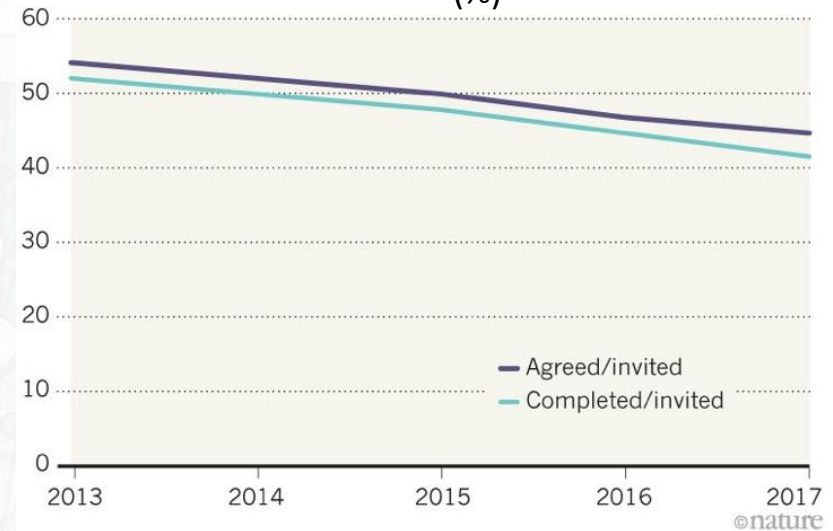


# A system at the end of its rope

**Number of Reviewers  
invited (millions)**



**Proportion of  
accepted invitations  
(%)**



<https://www.nature.com/articles/d41586-018-06602-y>

More and more reviewers needed

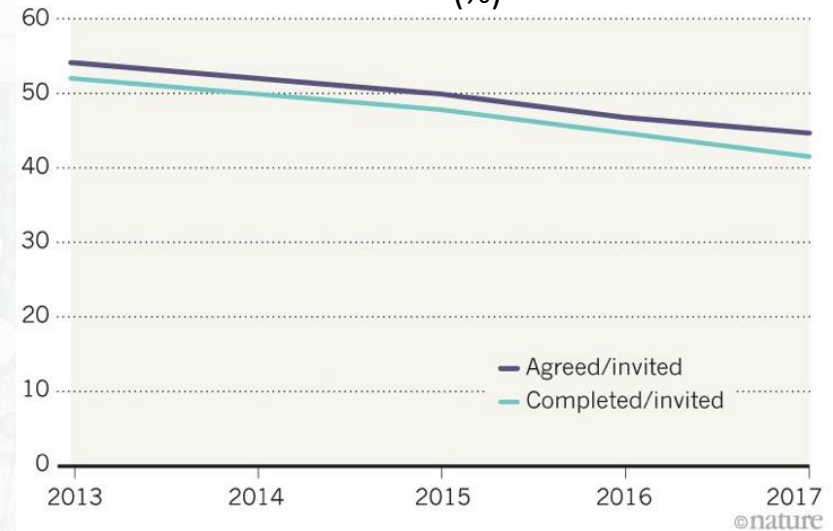
Less and less accepted invitations

# A system at the end of its rope

**Number of Reviewers  
invited (millions)**



**Proportion of  
accepted invitations  
(%)**



<https://www.nature.com/articles/d41586-018-06602-y>

More and more reviewers needed

Less and less accepted invitations

20% of scientists are performing up to 95% of all peer reviews

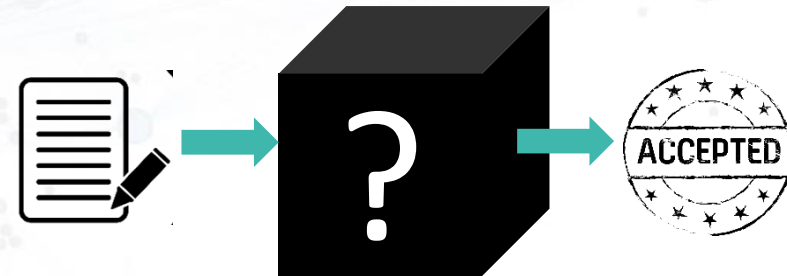
(10.1371/journal.pone.0166387)

Lack of visibility, lack of recognition

# Inefficient & non transparent system

---

- submissions/rejections in cascade
- > 1-2 years to read a paper
- waste of evaluation
- reviewers availability issue
- invisible Reviews
- invisible Editorial Decisions
- unknown Editor
- unstated Conflicts of Interest



# A closed system

---

% of publications behind paywalls



Worldwide: **70%** (2019)

Piwowar et al 2019. <https://doi.org/10.1101/795310>

Europe: **64%** (2018)

[https://ec.europa.eu/info/research-and-innovation/strategy/strategy-2020-2024/our-digital-future/open-science/open-science-monitor/trends-open-access-publications\\_en](https://ec.europa.eu/info/research-and-innovation/strategy/strategy-2020-2024/our-digital-future/open-science/open-science-monitor/trends-open-access-publications_en)

France: **44%** (2019)

<https://www.enseignementsup-recherche.gouv.fr/fr/barometre-francais-de-la-science-ouverte-47519>

# Costly system & Fantastic margin profit

---



France: ~ €150 M/year

Europe: ~ €3 B/year

World: ~ €10 B/ year

for 3 millions articles  
published /year

➔ cost of ~ €3000 /article



# Costly system & Fantastic margin profit



France: ~ €150 M/year

Europe: ~ €3 B/year

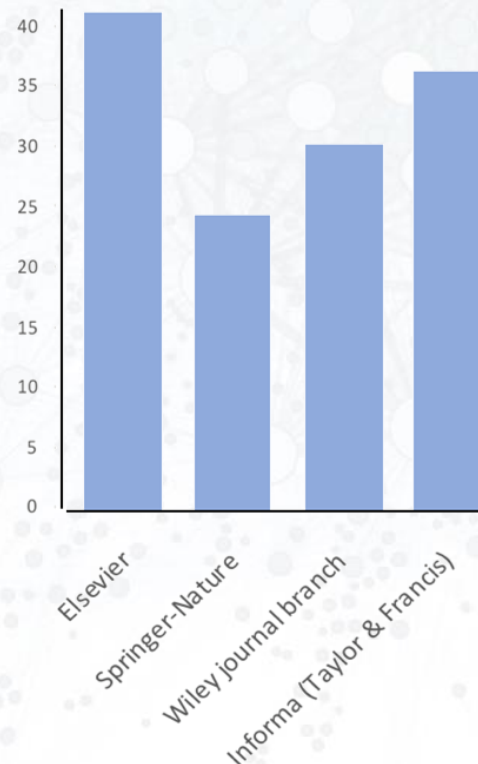
World: ~ €10 B/ year

for 3 millions articles  
published /year

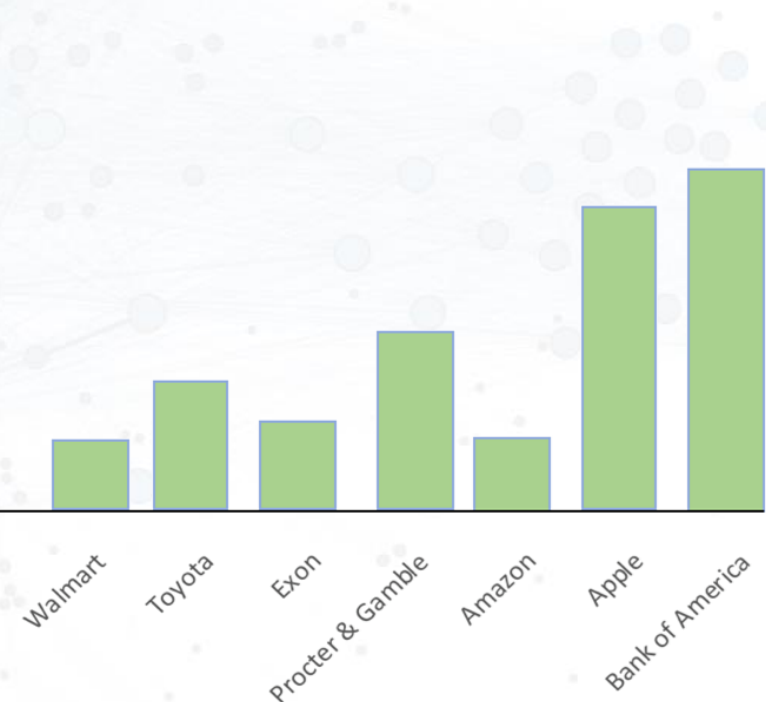
➔ cost of ~ €3000 /article

## Operating profit margin (% , 2019)

### Publishers



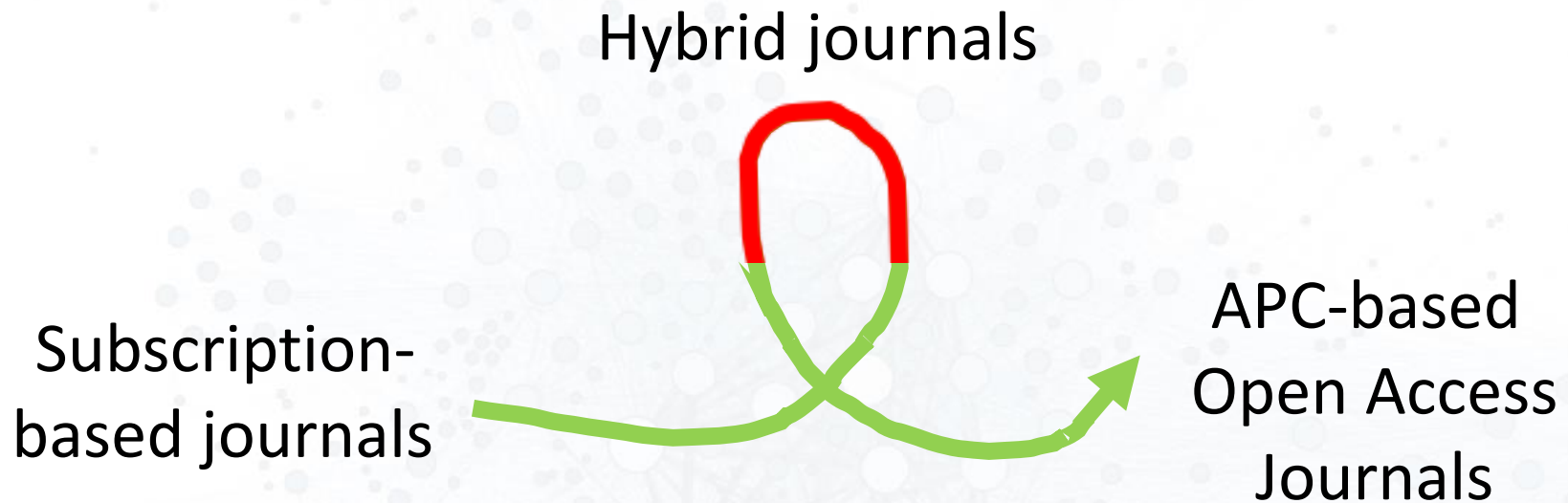
### Leading companies



Sources: [macrotrends.net](https://www.macrotrends.net), RELX annual report, bloomberg, SPARC, [marketscreener.com](https://marketscreener.com),

# Let's pay twice ...

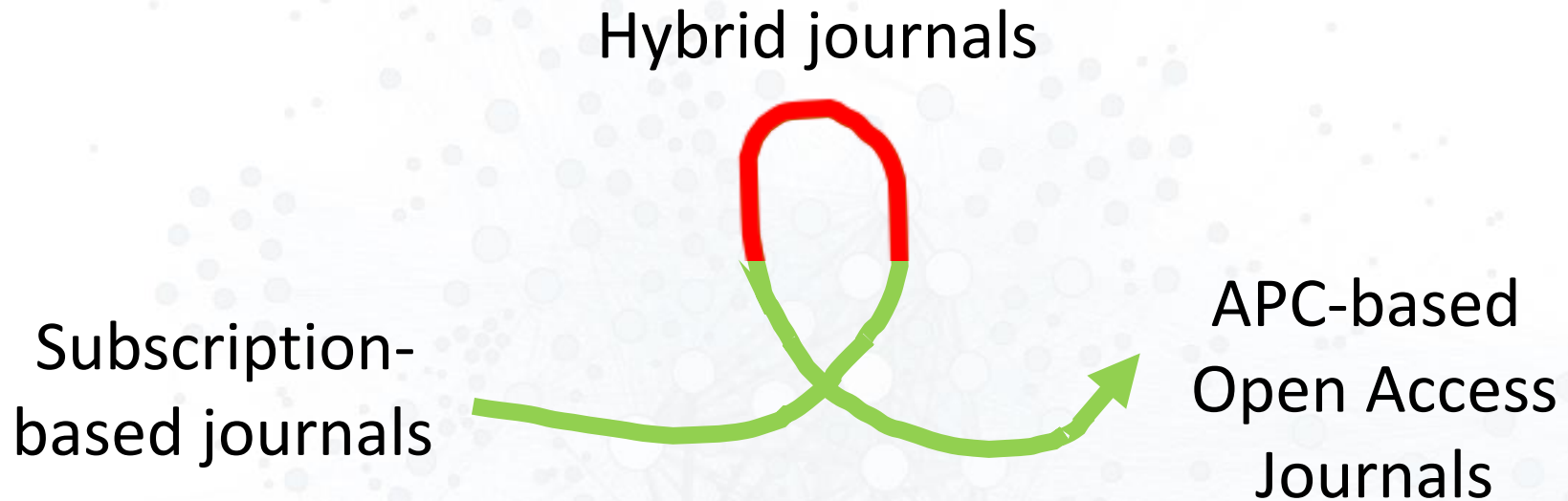
---



- 1- Libraries pay subscriptions**
- 2- Laboratories pay APCs**

# Let's pay twice ... or even thrice!

---



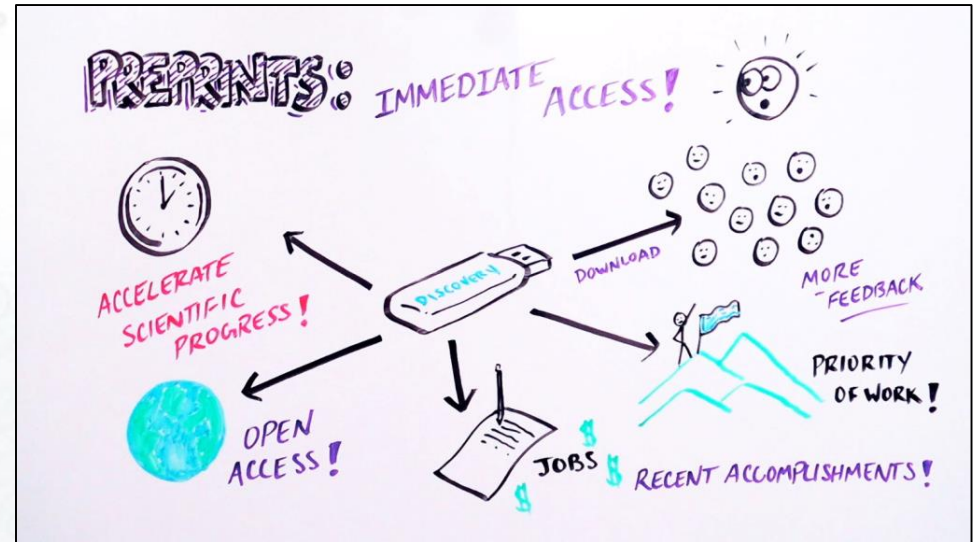
- 1- Libraries pay subscriptions
- 2- Laboratories pay APCs
- 3- Researchers are paid by research institutions to write, evaluate, edit, proofread, format articles**

Re-appropriate the publication  
system:

Preprints may be part of  
the solution

## Preprints are good...

- Low cost
- Free for authors and readers
- Available immediately
- Archive
- Proof of anteriority
- Searchable/Findable



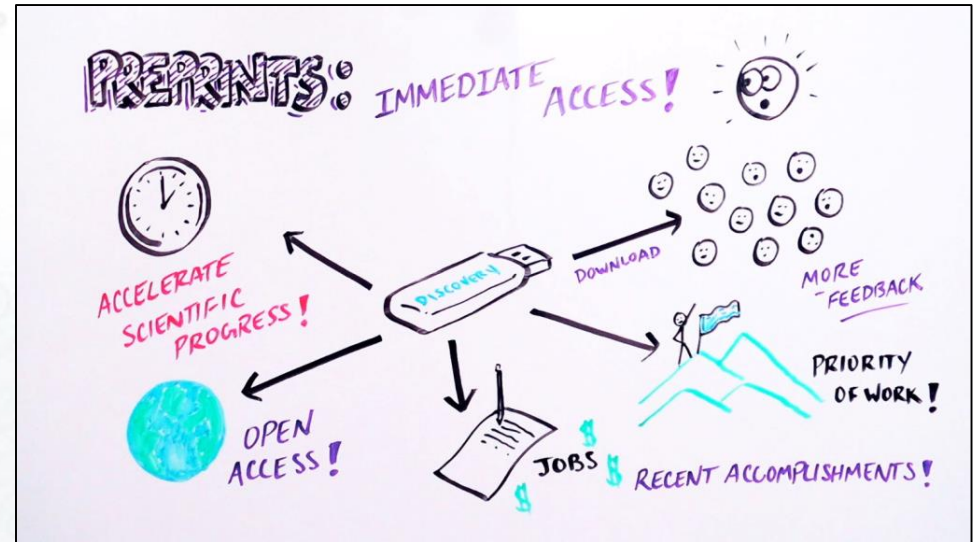
## But putative quality problem...

- No formal evaluation – no peer-review
- Everything can be found in open archives including preprints of very bad quality



## Preprints are good...

- Low cost
- Free for authors and readers
- Available immediately
- Archive
- Proof of anteriority
- Searchable/Findable



## But putative quality problem...

- No formal evaluation – no peer-review
- Everything can be found in open archives including preprints of very bad quality

 **We therefore need preprint evaluation**

A complex, light blue network diagram serves as the background. It consists of numerous small circles of varying sizes, some of which are larger and more prominent. These circles are interconnected by a web of thin, light blue lines, creating a dense, interconnected pattern that suggests a community or network structure. The overall aesthetic is clean and modern, with a focus on connectivity and community.

# The Peer Community in initiative

---

# The aim of PCI

---

**Communities of researchers** handling the **evaluation** of (through peer review) and **recommending preprints** in their scientific field.

bioRxiv

arXiv.org

zenodo

HAL  
archives-ouvertes.fr

OSF PREPRINTS

etc ...

*PCI Ecology*

*PCI Evolutionary Biology*

*PCI Genomics*

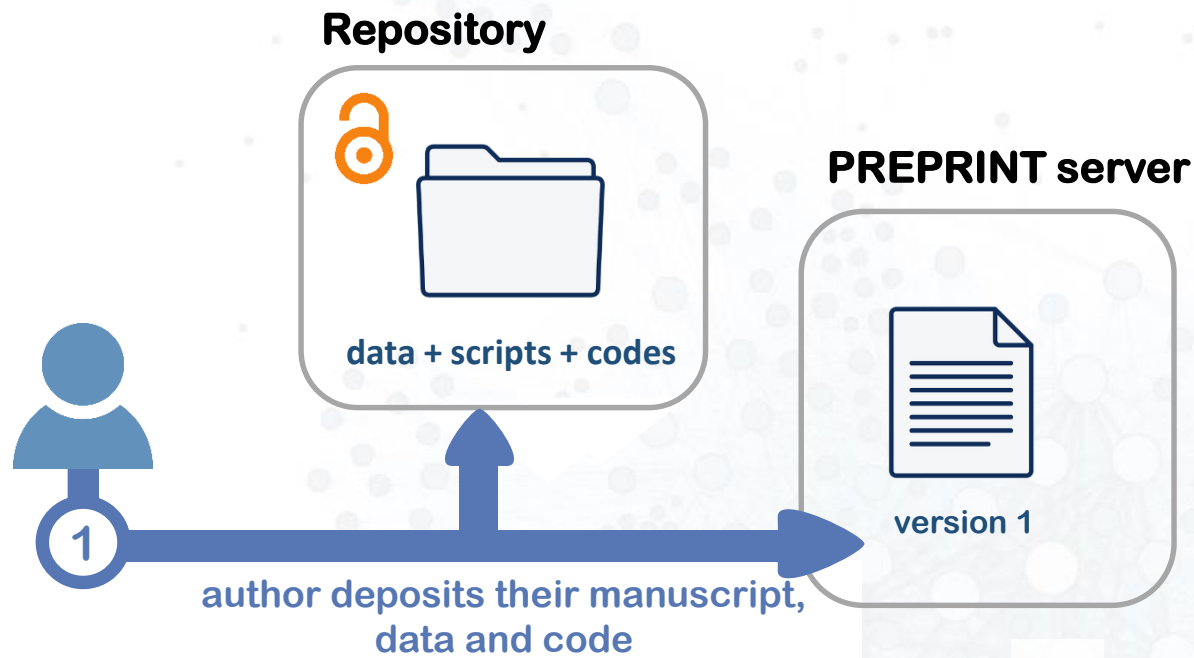
*PCI Microbiology*

etc..

PCI

# How does it work?

---





## Repository



## PREPRINT server



## PCI website



1

author deposits their manuscript,  
data and code

2

author submits  
the DOI/URL

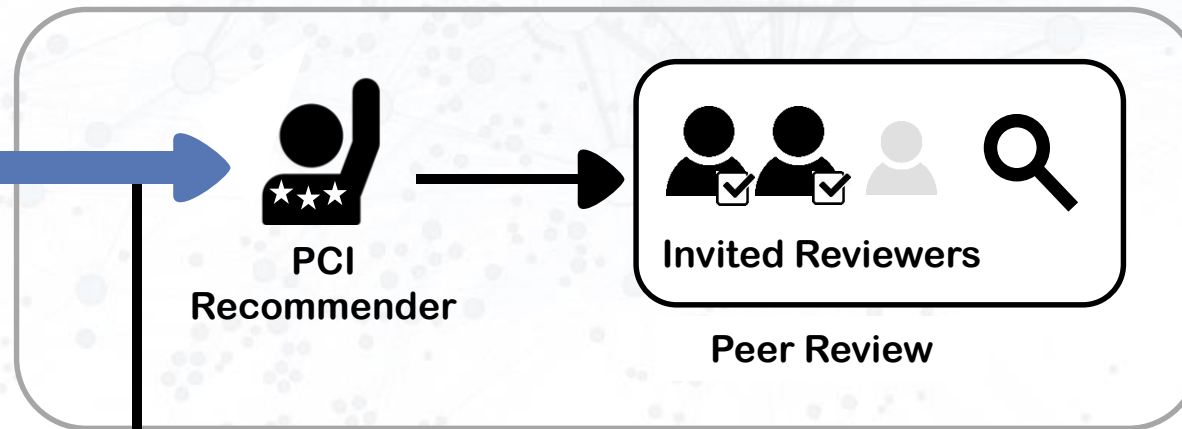
## Repository



## PREPRINT server



## PCI website

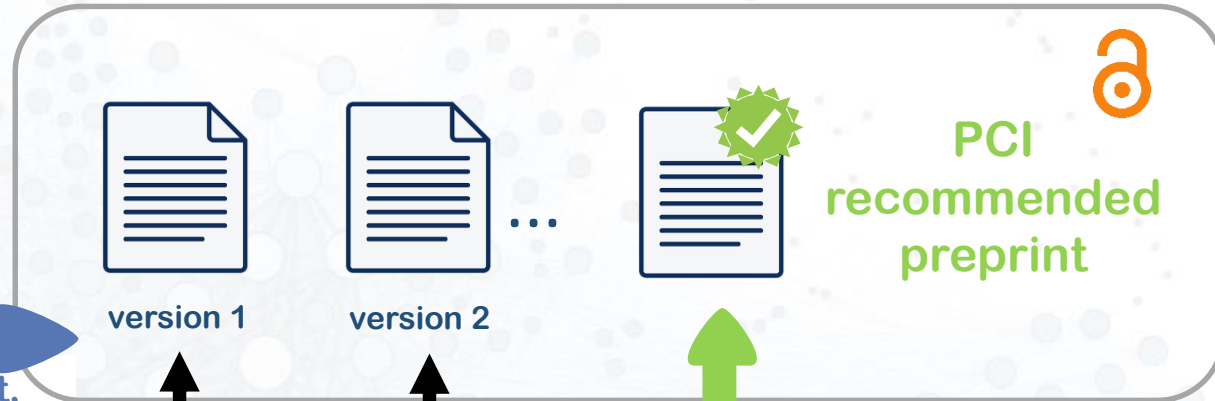


Not considered

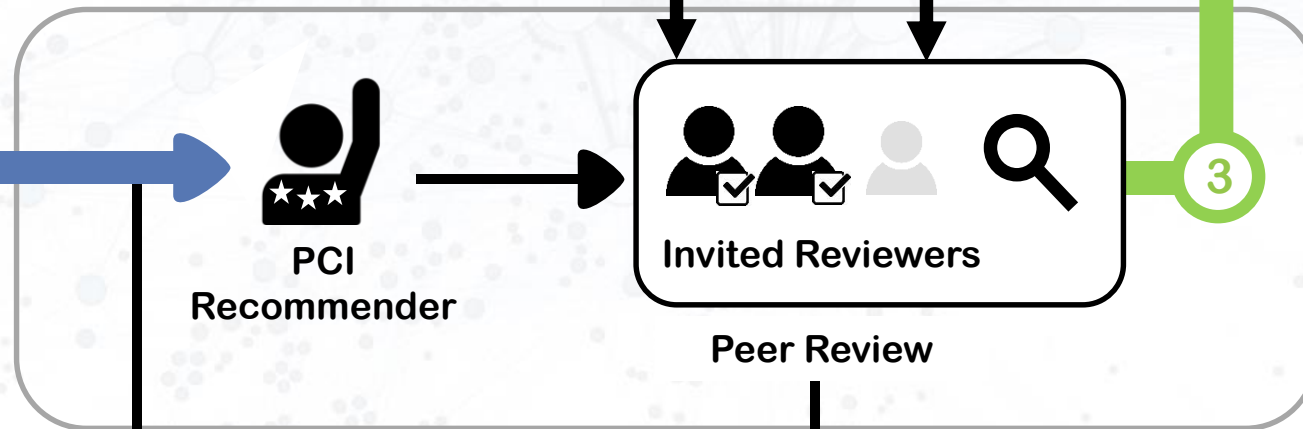
## Repository



## PREPRINT server



## PCI website



Not considered

Rejected

PCI

author deposits their manuscript,  
data and code

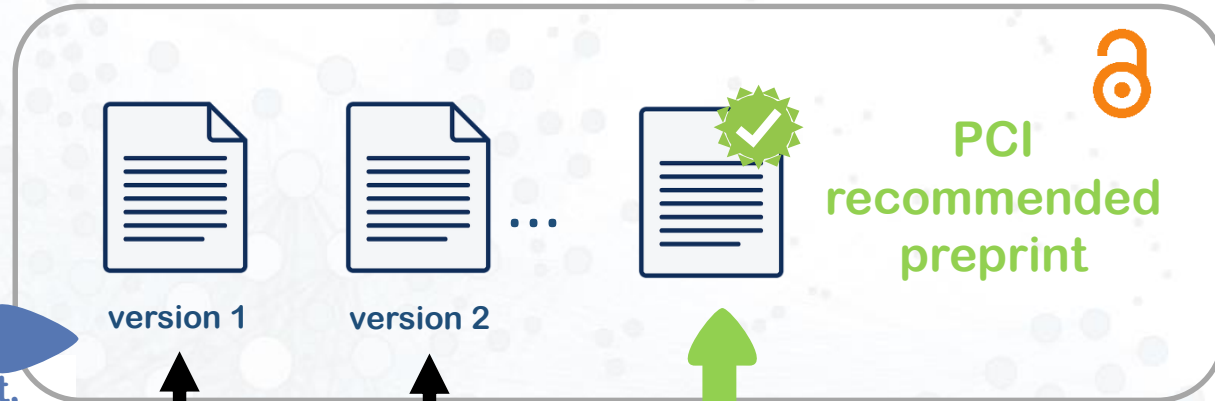
author submits  
the DOI/URL

PCI  
recommended  
preprint

## Repository



## PREPRINT server



## PCI website




Not considered

Rejected

PCI





# PCI-recommended preprint

# Recommendation text



## Peer Community In Evolutionary Biology

RESEARCH ARTICLE

 Open Access  
 Open Data  
 Open Code  
 Open Peer-Review

### Transposable Elements are an evolutionary force shaping genomic plasticity in the parthenogenetic root-knot nematode *Meloidogyne incognita*

Djampa KL Kozłowski<sup>1</sup>, Rahim Hassanaly-Goulamhoussen<sup>1</sup>, Martine Da Rocha<sup>1</sup>, Georgios D Koutsouvolos<sup>1</sup>, Marc Bailly-Bechet<sup>1\*</sup>, Etienne GJ Danchin<sup>1\*</sup>.

<sup>1</sup> Université Côte d'Azur, INRAE, CNRS, ISA – Sophia Antipolis, France  
\* equal contribution

This article has been peer-reviewed and recommended by  
Peer Community in Evolutionary Biology  
<https://doi.org/10.24072/pci.evolbiol.100106>

**ABSTRACT**  
Despite reproducing without sexual recombination, the root-knot nematode *Meloidogyne incognita* is adaptive and versatile. Indeed, this species displays a global distribution, is able to parasitize a large range of plants and can overcome plant resistance in a few generations. The mechanisms underlying this adaptability without sex remain poorly known and only low variation at the single nucleotide polymorphism level have been observed so far across different geographical isolates with distinct ranges of compatible hosts. Hence, other mechanisms than the accumulation of point mutations are probably involved in the genomic dynamics and plasticity necessary for adaptability. Transposable elements (TEs), by their repetitive nature and mobility, can passively and actively impact the genome dynamics. This is particularly expected in polyploid hybrid genomes such as the one of *M. incognita*. Here, we have annotated the TE content of *M. incognita*, analyzed the statistical properties of this TE content, and used population genomics approach to estimate the mobility of these TEs across 12 geographical isolates, presenting phenotypic variations. The TE content is more abundant in DNA transposons and the distribution of TE copies identify to their consensus sequence suggests they have been at least recently active. We have identified loci in the genome where the frequencies of presence of a TE showed variations across the different isolates. Compared to the *M. incognita* reference genome, we detected the insertion of some TEs either within genic regions or in the upstream regulatory regions. These predicted TE insertions might thus have a functional impact. We validated by PCR the insertion of some of these TEs, confirming TE movements probably play a role in the genome plasticity with possible functional impacts.

**Keywords:** transposons, genomic plasticity, evolution, agricultural pest, parthenogenesis, hybridization

Cite as: Kozłowski DK, Hassanaly-Goulamhoussen R, Da Rocha M, Koutsouvolos GD, Bailly-Bechet M, Danchin EG (2020) Transposable Elements are an evolutionary force shaping genomic plasticity in the parthenogenetic root-knot nematode *Meloidogyne incognita*. *bioRxiv*, 2020.04.30.069948, ver. 4 peer-reviewed and recommended by PCI Evolutionary Biology. <https://doi.org/10.1101/2020.04.30.069948>

Posted: 03 Aug 2020

Recommender: Inés Alvarez

Reviewers: Daniel Vitales and two anonymous reviewers


Correspondence: [rahim.hassanaly@unice.fr](mailto:rahim.hassanaly@unice.fr)  
[etienne.danchin@unice.fr](mailto:etienne.danchin@unice.fr)

PEER COMMUNITY IN EVOLUTIONARY BIOLOGY

1



## Recommendation

 Share  Tweet

Printable page 

## Determinants of population genetic structure in co-occurring freshwater snails

Trine Bilde and Matteo Fumagalli based on reviews by 3 anonymous reviewers

A recommendation of:



### Connectivity and selfing drives population genetic structure in a patchy landscape: a comparative approach of four co-occurring freshwater snail species

Jarne P., Lozano del Campo A., Lamy T., Chapuis E., Dubart M., Segard A., Canard E., Pointier J.-P., David P.

(2021), HAL, hal-03295242, ver. 4 peer-reviewed and recommended by Peer Community in Evolutionary Biology

<https://hal.archives-ouvertes.fr/hal-03295242>

Abstract 

Submitted: 11 February 2021, Recommended: 01 September 2021

### Recommendation

Genetic diversity is a key aspect of biodiversity and has important implications for evolutionary potential and thereby the persistence of species. Improving our understanding of the factors that drive genetic structure within and between populations is, therefore, a long-standing goal in evolutionary biology. However, this is a major challenge,



Open Access



Open Peer-Review



Open Data




Open Code







# PCI-recommended preprint

# Recommendation text

 **Peer Community In Evolutionary Biology**

---

RESEARCH ARTICLE

 Open Access  
 Open Data  
 Open Code  
 Open Peer-Review

**Transposable Elements are an evolutionary force shaping genomic plasticity in the parthenogenetic root-knot nematode *Meloidogyne incognita***

Djampa KL Kozłowski<sup>1</sup>, Rahim Hassanaly-Goulamhoussen<sup>1</sup>, Martine Da Rocha<sup>1</sup>, Georgios D Koutsouvolos<sup>1</sup>, Marc Bailly-Bechet<sup>1\*</sup>, Etienne GJ Danchin<sup>1\*</sup>.

<sup>1</sup> Université Côte d'Azur, INRAE, CNRS, ISA – Sophia Antipolis, France  
\* equal contribution

Cite as: Kozłowski DK, Hassanaly-Goulamhoussen R, Da Rocha M, Koutsouvolos GD, Bailly-Bechet M, Danchin EG (2020) Transposable Elements are an evolutionary force shaping genomic plasticity in the parthenogenetic root-knot nematode *Meloidogyne incognita*. *bioRxiv*, 2020.04.30.069948, ver. 4 peer-reviewed and recommended by PCI Evolutionary Biology. <https://doi.org/10.1101/2020.04.30.069948>

Posted: 03 Aug 2020

Recommender: Inés Alvarez

Reviewers: Daniel Vitales and two anonymous reviewers


Correspondence: [rahim.hassanaly@unice.fr](mailto:rahim.hassanaly@unice.fr)  
[etienne.danchin@unice.fr](mailto:etienne.danchin@unice.fr)




PEER COMMUNITY IN EVOLUTIONARY BIOLOGY

This article has been peer-reviewed and recommended by  
**Peer Community in Evolutionary Biology**  
<https://doi.org/10.24072/pci.evolbiol.100106>

**ABSTRACT**  
Despite reproducing without sexual recombination, the root-knot nematode *Meloidogyne incognita* is adaptive and versatile. Indeed, this species displays a global distribution, is able to parasitize a large range of plants and can overcome plant resistance in a few generations. The mechanisms underlying this adaptability without sex remain poorly known and only low variation at the single nucleotide polymorphism level have been observed so far across different geographical isolates with distinct ranges of compatible hosts. Hence, other mechanisms than the accumulation of point mutations are probably involved in the genomic dynamics and plasticity necessary for adaptability. Transposable elements (TEs), by their repetitive nature and mobility, can passively and actively impact the genome dynamics. This is particularly expected in polyploid hybrid genomes such as the one of *M. incognita*. Here, we have annotated the TE content of *M. incognita*, analyzed the statistical properties of this TE content, and used population genomics approach to estimate the mobility of these TEs across 12 geographical isolates, presenting phenotypic variations. The TE content is more abundant in DNA transposons and the distribution of TE copies identify to their consensus sequence suggests they have been at least recently active. We have identified loci in the genome where the frequencies of presence of a TE showed variations across the different isolates. Compared to the *M. incognita* reference genome, we detected the insertion of some TEs either within genic regions or in the upstream regulatory regions. These predicted TE insertions might thus have a functional impact. We validated by PCR the insertion of some of these TEs, confirming TE movements probably play a role in the genome plasticity with possible functional impacts.

**Keywords:** transposons, genomic plasticity, evolution, agricultural pest, parthenogenesis, hybridization



 **Recommendation**

 Share  Tweet Printable page 

**Determinants of population genetic structure in co-occurring freshwater snails**  
*Trine Bilde and Matteo Fumagalli based on reviews by 3 anonymous reviewers*

A recommendation of:

**Connectivity and selfing drives population genetic structure in a patchy landscape: a comparative approach of four co-occurring freshwater snail species**  
Jarne P., Lozano del Campo A., Lamy T., Chapuis E., Dubart M., Segard A., Canard E., Pointier J.-P., David P.  
(2021), HAL, hal-03295242, ver. 4 peer-reviewed and recommended by Peer Community in Evolutionary Biology  
<https://hal.archives-ouvertes.fr/hal-03295242>

 **Abstract** 

Submitted: 11 February 2021, Recommended: 01 September 2021

## Recommendation

Genetic diversity is a key aspect of biodiversity and has important implications for evolutionary potential and thereby the persistence of species. Improving our understanding of the factors that drive genetic structure within and between populations is, therefore, a long-standing goal in evolutionary biology. However, this is a major challenge,

 Open Access  Open Peer-Review

 Open Data  Open Code



# Final, valid, findable and citable article

PCI

# Fate of PCI-recommended preprints

---

PCI-recommended  
preprint



**Peer Community Journal**

Direct publication in diamond open access

OR



**PCI-friendly** journals

OR



**Other journals**

# PCI-friendly journals

---

## 3 categories

### 1. Accept without further reviews

- Peer Community Journal
- Frontiers of Biogeography
- Rethinking Ecology
- Acarologia
- Belgium J of Zool
- J Lithic Studies
- OCL
- Theoretical Roman Archaeology Journal

### PCI RR

- |  |                                     |
|--|-------------------------------------|
| • <b>Addiction Research &amp; Theory</b>             | • <b>NeuroImage: Reports</b>        |
| • <b>Advances in Cognitive Psychology</b>            | • <b>Peer Community Journal</b>     |
| • <b>BMJ Open Science</b>                            | • <b>PeerJ</b>                      |
| • <b>Brain and Neuroscience Advances</b>             | • <b>PeerJ Computer Science</b>     |
| • <b>Cambridge Educational Research e-Journal</b>    | • <b>PeerJ Physical Chemistry</b>   |
| • <b>Cortex</b>                                      | • <b>PeerJ Organic Chemistry</b>    |
| • <b>Experimental Psychology</b>                     | • <b>PeerJ Inorganic Chemistry</b>  |
| • <b>F1000Research</b>                               | • <b>PeerJ Analytical Chemistry</b> |
| • <b>Infant and Child Development</b>                | • <b>PeerJ Materials Science</b>    |
| • <b>Journal for Reproducibility in Neuroscience</b> | • <b>Royal Society Open Science</b> |
| • <b>Journal of Cognition</b>                        | • <b>Swiss Psychology Open</b>      |
| • <b>Meta-Psychology</b>                             |                                     |

# PCI-friendly journals

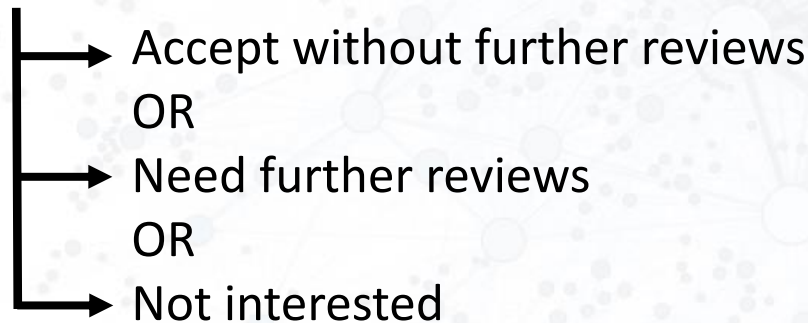
---

## 3 categories

### 1. Accept without further reviews

---

### 2. Fast response ( $\leq 5$ days) to presubmission enquiry



- Ecology Letters
- PLOS Biology
- Evolution
- OIKOS
- Journal of Evolutionary Biology
- Evolution Letters
- Journal of Biogeography
- GigaByte
- GigaScience
- Ecology and Evolution
- Animal Welfare
- Annals of Forest Science
- Bulletin of the History of Archaeology
- Bulletins et Mémoires de la Société d'Anthropologie de Paris (BMSAP)
- Collabra: Psychology
- European zoological journal
- Evolutionary Applications
- Evolutionary Ecology
- Heritage
- Journal of Applied Entomology
- Journal of Avian Biology
- Journal of Computer Applications in Archaeology
- Journal of Neolithic Archaeology
- Journal of Open Archaeology Data
- Journal of the Israel Prehistoric Society
- Molecular Ecology
- Veterinary Research



# PCI-friendly journals

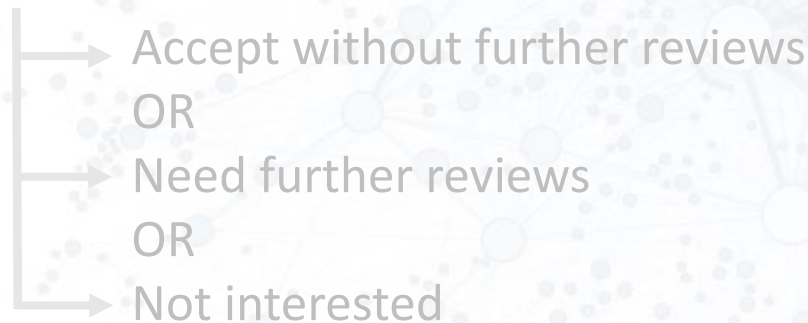
---

## 3 categories

### 1. Accept without further reviews

---

### 2. Fast response ( $\leq 5$ days) to presubmission enquiry



### 3. May use the evaluations of PCI if adequate

- Adansonia
- Agronomy for Sustainable Development
- Anthropolozologica
- Archäologische Informationen
- Comptes Rendus Palevol
- Cryptogamie, Algologie
- Cryptogamie, Bryologie
- Cryptogamie, Mycologie
- eLife
- European Journal of Taxonomy
- EXARC Journal
- G3: Genes, Genomes, Genetics
- Genetics
- Geodiversitas
- Global Ecology and Biogeography
- Internet Archaeology
- Journal of Pollination Ecology
- Naturae
- Neuroanatomy and Behaviour
- Zoosystema
- Animal
- Animal microbiome
- Anthropologica et Praehistorica
- Arqueologia
- BMC Ecology and Evolution
- Botany Letters
- Genetica
- Integrative Organismal Biology
- Molecular Ecology Resources
- Nordic Journal of Botany
- Open Quaternary
- PLOS One
- Quaternary
- Trends in Plant Science





- Launched in November 2021
- Accepts as is and only recommended articles
- Free for readers and authors
- Already 90 articles published
- 14 sections
- CC-BY Licence
- Indexed in

## Peer Community Journal

Section: Ecology

### RESEARCH ARTICLE

Published  
2022-01-19

Cite as  
Claire Stragier, Sylvain Piry, Anne Loiseau, Mamadou Kane, Aliou Sow, Yousoupha Niang, Mamoudou Diallo, Arame Ndiaye, Philippe Gauthier, Marion Borderon, Laurent Granjon, Carine Brouat and Karine Berthier (2022) Interplay between historical and current features of the cityscape in shaping the genetic structure of the house mouse (*Mus musculus domesticus*) in Dakar (Senegal, West Africa), Peer Community Journal, 2: e11.

Correspondence  
carine.brouat@ird.fr

Peer-review  
Peer reviewed and recommended by  
PCI Ecology  
<https://doi.org/10.24072/pci.ecology.100044>

This article is licensed under the Creative Commons Attribution 4.0 License.

**Interplay between historical and current features of the cityscape in shaping the genetic structure of the house mouse (*Mus musculus domesticus*) in Dakar (Senegal, West Africa)**

Claire Stragier<sup>1</sup>, Sylvain Piry<sup>2</sup>, Anne Loiseau<sup>2</sup>, Mamadou Kane<sup>1</sup>, Aliou Sow<sup>1</sup>, Yousoupha Niang<sup>1</sup>, Mamoudou Diallo<sup>1</sup>, Arame Ndiaye<sup>1</sup>, Philippe Gauthier<sup>2</sup>, Marion Borderon<sup>3</sup>, Laurent Granjon<sup>2</sup>, Carine Brouat<sup>4,5,6</sup>, and Karine Berthier<sup>4,6</sup>

Volume 2 (2022), article e11

<https://doi.org/10.24072/pcjournal.85>

### Abstract

Population genetic approaches may be used to investigate dispersal patterns of species living in highly urbanized environment in order to improve management strategies for biodiversity conservation or pest control. However, in such environment, population genetic structure may reflect both current features of the cityscape and urbanization history. This can be especially relevant when focusing on exotic commensal rodents that have been introduced in numerous primary colonial European settlements. Accounting for spatial and temporal cityscape heterogeneity to determine how past and recent demographic events may interplay to shape current population genetic structure of synanthropic rodents may provide useful insights to manage their populations. In this study, we addressed these issues by focusing on the house mouse, *Mus musculus domesticus*, in Dakar, Senegal, where the species may have been introduced as soon as Europeans settled in the middle of the nineteenth century. We examined genetic variation at one mitochondrial locus and 15 nuclear microsatellite markers from individuals sampled in 14 sampling sites representing different stages of urbanization history and different socio-economic environments in Dakar. We used various approaches, including model-based genetic clustering and model-free smoothing of pairwise genetic estimates. We further linked observed spatial genetic patterns to historical and current features of Dakar cityscape using random forest and Bayesian conditional autoregressive models. Results are consistent with an introduction of the house mouse at colonial time and the current genetic structure exhibits a gradient-like pattern reflecting the historical process of spatially continuous expansion of the city from the first European settlement. The genetic patterns further suggest that population dynamics of the house mouse is also driven by the spatial heterogeneity of the current cityscape, including socio-economics features, that translate in habitat quality. Our results highlight the potential importance of accounting for past demographic events to understand spatial genetic patterns of non-native invasive commensal rodents in highly urbanized environment.

<sup>1</sup>BIOPASS (IRD-CIRAD, CIRAD, ISRA, UCAD), Campus de Bel-Air, BP 1386, CP 18524 Dakar, Senegal. <sup>2</sup>CIRAD, Université Montpellier CIRAD, INRAE, Institut Agro, IRD, Montpellier, France. <sup>3</sup>Department of Geography and Regional Research, University of Vienna, Austria. <sup>4</sup>Phylogénie Végétale, INRAE, 84140 Montfavet, France. <sup>5</sup>Equal contribution



Peer Community Journal is a member of the  
Centre Mersenne for Open Scientific Publishing  
<http://www.centre-mersenne.org/>

e-ISSN 2804-3871



Soon by



# In summary

PCI-recommended  
article



Final, citable  
article hosted  
by preprint  
server

Author's  
choice to  
submit to

OR

OR

**Peer Community Journal**

Direct publication in diamond open access

**PCI-friendly journals**

- accept with no further peer review

OR

- fast response ( $\leq 5$  days) to presubmission enquiry

OR

- use of PCI evaluation if appropriate

**Other journals**

If not satisfied by  
the decision

If not satisfied by  
the decision

PCI

# Authors of PCI-recommended preprints

---

- **... can know** within a few days **if one or more PCI-friendly journals**
  - are interested
  - will request or not further peer-review
- **... get 100% chance to publish rapidly** in an indexed and free open access journal (Peer Community Journal)

# Consequences

---

- **Big savings for research agencies** (150 €/paper instead of 3000 € on average)

# Consequences

---

- **Big savings for research** agencies (150 €/paper instead of 3000 € on average)
- **Results accessible** to all and right away because preprints



# Consequences

---

- **Big savings for research** agencies (150 €/paper instead of 3000 € on average)
- **Results accessible** to all and right away because preprints
- **Transparency** of data, methods, scripts, codes, ideas, hypotheses
- **Transparency** of evaluations



# Consequences

---

- **Big savings for research** agencies (150 €/paper instead of 3000 € on average)
- **Results accessible** to all and right away because preprints
- **Transparency** of data, methods, scripts, codes, ideas, hypotheses
- **Transparency** of evaluations
- The editorial policy of a journal is replaced by a **clear and argued recommendation** text

# Consequences

---

- **Big savings for research** agencies (150 €/paper instead of 3000 € on average)
- **Results accessible** to all and right away because preprints
- **Transparency** of data, methods, scripts, codes, ideas, hypotheses
- **Transparency** of evaluations
- The editorial policy of a journal is replaced by a **clear and argued recommendation** text
- **A single evaluation for many journals**

# Consequences

---

- **Big savings for research** agencies (150 €/paper instead of 3000 € on average)
- **Results accessible** to all and right away because preprints
- **Transparency** of data, methods, scripts, codes, ideas, hypotheses
- **Transparency** of evaluations
- The editorial policy of a journal is replaced by a **clear and argued recommendation** text
- **A single evaluation for many journals**
- A mean to break the publishers' business (diamond OA)

# PCI in figures & Current PCIs

---

# PCI in figures



15

PEER  
COMMUNITIES



556

SUBMITTED  
ARTICLES



301

RECOMMENDED  
ARTICLES



54

MEDIAN TIME TO  
1ST DECISION (DAYS)



3210

TWITTER  
FOLLOWERS



>5600

REGISTERED  
USERS



>1600

RECOMMENDERS



120

MANAGING BOARD  
MEMBERS



997

REVIEWERS



90

FRIENDLY  
JOURNALS



>12000

VISITORS TO  
PCI WEBSITES



105

SUPPORTING  
ORGANISATIONS

# Current PCIs

---

## 2017

PCI Evolutionary Biology

## 2018

PCI Ecology

PCI Paleontology

## 2019

PCI Animal -Science

PCI Zoology

## 2020

PCI Mathematical and Computational Biology

PCI Forest and Wood Science

PCI Network Science

PCI Genomics

PCI Archaeology

PCI Circuit Neuroscience

## 2021

### ***PCI Registered Reports***

PCI Ecotoxicology and Environmental Chemistry

PCI Infections

## 2021

PCI Microbiology



# Four key factors leading to low reproducibility

publication bias

low power

p-hacking

Harking



(D. Bishop, oxford)

➔ Peer Community In Registered Reports

PCI



# Peer Community In

Free and transparent pre- and post-study  
recommendations across research fields



# Supports awards and recognition

---

# Authors

---

- 96% of authors think using PCI improved their article
- 37% of authors considered PCI as the publication endpoint (no submission to a journal)
- 1/3 of submitted papers after recommendation were accepted as is



# Scientific societies

---



# Institutions and universities

INRAE

cnrs

université  
PARIS-SACLAY

SupAgro  
Montpellier

Université  
Fédérale  
Toulouse  
Midi-Pyrénées

KU LEUVEN



MAX-PLANCK INSTITUTE  
FOR EVOLUTIONARY BIOLOGY



VU

VRIJE  
UNIVERSITEIT  
AMSTERDAM

UNIVERSITÉ DE  
MONTPELLIER

LIÈGE  
université



Swiss Institute of  
Bioinformatics

ULB



Université  
de Limoges

Inrap

UCLouvain

UNIVERSITÉ  
Clermont  
Auvergne

Aix\*Marseille  
université



UNIVERSITÉ  
CÔTE D'AZUR

cnrs  
INEE



Lyon 1



École Pratique  
des Hautes Études

PSL

SORBONNE  
UNIVERSITÉ  
CRÉATEURS DE FUTURS  
DEPUIS 1257

Université  
de Guyane

IRD

Institut de Recherche  
pour le Développement  
FRANCE

Inserm

université  
de BORDEAUX

Université  
de Strasbourg

UNIVERSITÉ DE  
RENNES 1

UNIVERSITÉ  
DE LORRAINE

UVSQ  
université PARIS-SACLAY

AgroParisTech

Ifremer



Max Planck Institute  
for Evolutionary Anthropology



# Libraries and other supporters



**DET KGL.  
BIBLIOTEK**

Royal Danish Library

*les bibliothèques*

Université  le  
de Montréal



**LIBRARIES**  
COLORADO STATE UNIVERSITY

 **RéseauURFIST**



CeMEB  
CENTRE MEDITERRANEEN  
ENVIRONNEMENT ET BIODIVERSITE



LabEx

**ECOFECT**

Eco-Evolutionary Dynamics of Infectious Diseases



LabEx

**BASC**

Biodiversité, Agroécosystèmes,  
Société, Climat

laboratoire  
of excellence  
**ceba**  
center for the study of  
biodiversity  
in amazonia



LabEx  
**TULIP**



arbre



LabEx COTE



**agropolis** fondation

PCI

# Grants, awards and projects

PCI is one of the winners of the first call for projects of the French National Open Science Fund (2020)



Pilote project « Notify »  
with COAR, Harvard Library, Los Alamos Lab, HAL, etc...

2020 LIBER Award for Library Innovation



**COAR**  
Confederation  
of Open Access  
Repositories

A complex network diagram with numerous nodes of varying sizes and colors (light blue, grey, white) connected by thin lines, creating a dense web-like structure. The nodes are distributed across the entire slide, with a higher concentration in the center.

# How to participate?

---

# Sign and share the #PCIManifesto

<https://peercommunityin.org/pci-manifesto/>

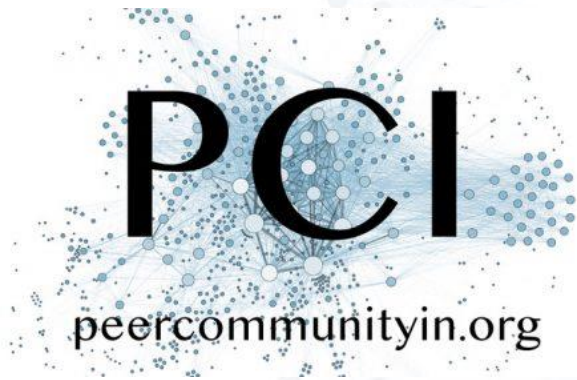
“

1. I agree to submit at least one of my best articles to a PCI for peer review before the end of 2023 and, if recommended, to publish it in Peer Community Journal.

2. “I will be bound by this promise only if at least 500 other researchers make the same commitment.”

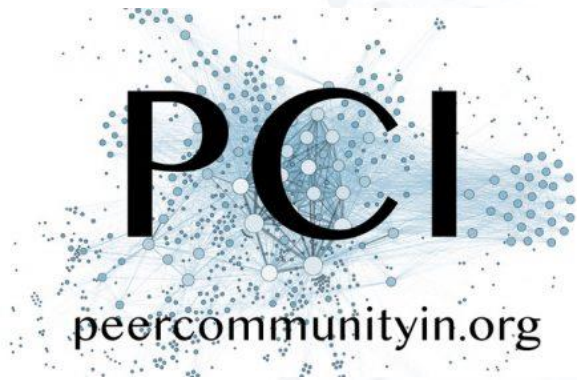
”

796 colleagues have signed so far



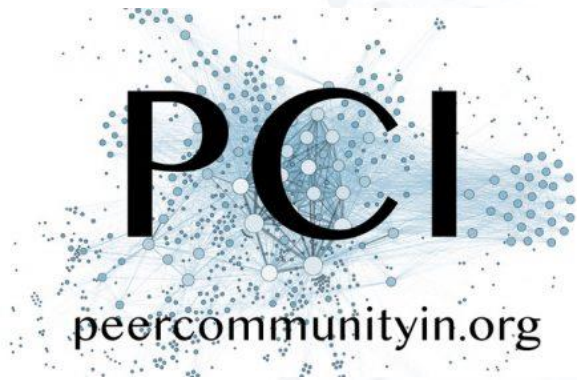
- **Submit your articles to a PCI**
- **Publish in Peer Community Journal**
- **Join us as reviewers and recommenders**



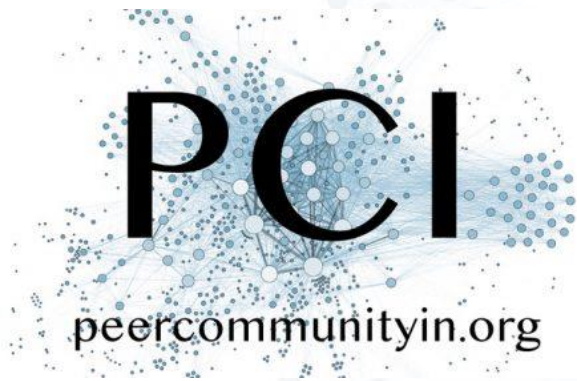


- **Submit your articles to a PCI**
- **Publish in Peer Community Journal**
- **Join us as reviewers and recommenders**
- **Follow us on twitter @PeerCommunityIn**





- **Submit your articles to a PCI**
- **Publish in Peer Community Journal**
- **Join us as reviewers and recommenders**
- **Follow us on twitter @PeerCommunityIn**
- **Create new PCIs**



- **Submit your articles to a PCI**
- **Publish in Peer Community Journal**
- **Join us as reviewers and recommenders**
- **Follow us on twitter @PeerCommunityIn**
- **Create new PCIs**
- **More generally participate in real open science (Diamond OA, society/university journals, ...)**



# Thanks!

---



@PeerCommunityIn

<https://peercommunityin.org>

# Sign and share the #PCIManifesto

<https://peercommunityin.org/pci-manifesto/>

“

1. I agree to submit at least one of my best articles to a PCI for peer review before the end of 2023 and, if recommended, to publish it in Peer Community Journal.

2. “I will be bound by this promise only if at least 500 other researchers make the same commitment.”

”

621 colleagues have signed so far

# Recognition by evaluation committees

**Finland:** recognition of PCI Evol Biol



Julkaisufoorumi

**France:**



Sections 29, 30 and  
52 of the **National  
Committee for  
Scientific Research**



**CNU**  
Conseil National des Universités

Section 67 of  
the **Conseil  
National des  
Universités**



**INRAE**

CSS BPE of the  
**French National  
Institute for  
Agricultural  
Research**



CSS3 of the **French  
National Research  
Institute for  
Development**

Consider the articles recommended by PCI Evol Biol, PCI Ecology and PCI Paleo... in the same way as an article published in an indexed scientific journal

# Recognition by Doctoral Schools

---

**Doctoral Programme in Biodiversity, Genetics and Evolution (BIODIV)** – Univ. Porto & Univ Lisbon, Portugal

**Programa de Doctorado en Biología Integrada** – Univ. de Sevilla, Spain

**ED Sciences de la Vie et de la Santé** – Univ. Nice, France

**ED SEVAB** – Univ. Toulouse, France

**ED Science de l'Environnement** – Univ Aix Marseille, France

**ED Gaïa** – Univ Montpellier, France

**ED Sciences, Technologies et Santé** – Univ. La Réunion, France

**ED Écologie, Géosciences, Agronomie, ALimentation** – Univ. Rennes, France

**ED Energie et Environnement** – Univ. Perpignan, France

**ED Sciences de la Mer et du Littoral** – Univ. Brest, Nantes, , France

**ED Theodore Monod** – Univ Poitiers, France

**ED ABIES** – Univ. Saclay, France

**ED Environnements-Santé** – Univ. Bourgogne Franche-Comté, France

**ED E2M2** – Univ Lyon, France

**ED Sciences de la Nature et de l'Homme : écologie & évolution** – MNHN, France

**ED Sciences du végétal : du gène à l'écosystème** – Univ. Orsay, France

**ED SMRE** – Univ. Lille, France

**ED Structure et Dynamique des Systèmes Vivants** – Univ. Saclay, France

**ED Sciences et Environnement** – Univ. Bordeaux, France

**ED Sciences Exactes et Applications** – Univ. Pau et Pays de l'Adour, France

**ED SVSAE** – Univ. Clermont Auvergne, France