Peer Community In & Peer Community Journal

Denis Bourguet
Benoit Facon
Thomas Guillemaud
Marjolaine Hamelin

From preprint recommendation to Diamond Open Access publication

We’re facing several problems

Quality issues in published articles

- low power of statistical analysis
- Harking (hypotheses after results are known)
- p-hacking …

+

- Raw data not available
- Methods: no details – not complete
- Parameters not described
- Scripts and codes not available

20-60% studies are non reproducible depending on the field

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 Peer Review system

- Peer Review = long process

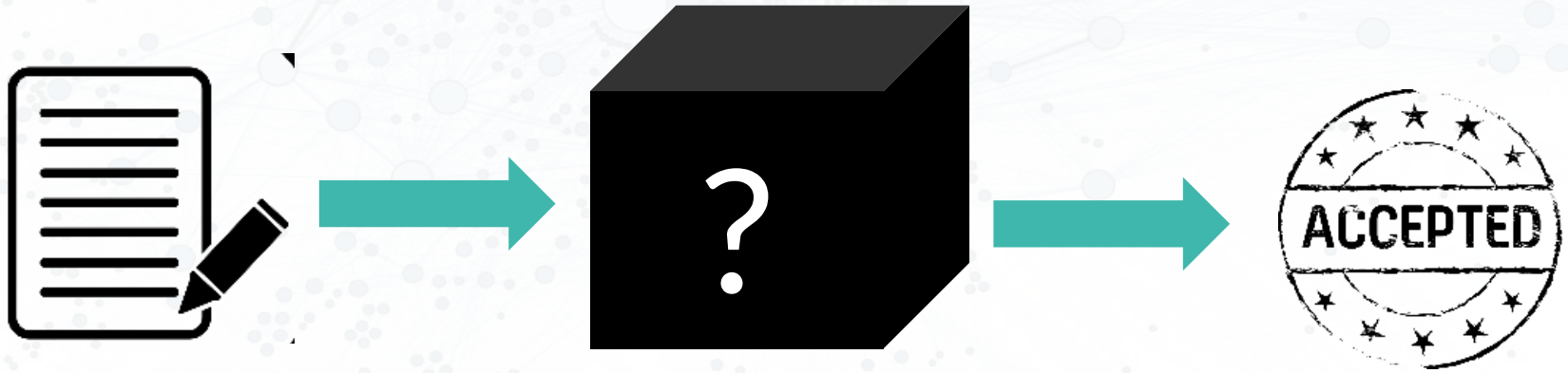
- Submissions/rejections in cascade

- 1-2 years to read a paper
- Waste of evaluation effort
- Reviewers availability issue

PCI

Non transparent Peer Review system

- Hidden Reviews
- Hidden Editorial Decisions
- Unknown Editor
- Hidden Conflicts of Interest



Publication = 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

France: **44%** (2019)

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

Publication = Costly system & fantastic margin profit

France: ~ €118 M/year

Europe: ~ €3 B/year

World: ~ €10 B/ year

for 3 millions articles published /year

cost of ~ €3000 /article

Publication = Costly system & fantastic margin profit

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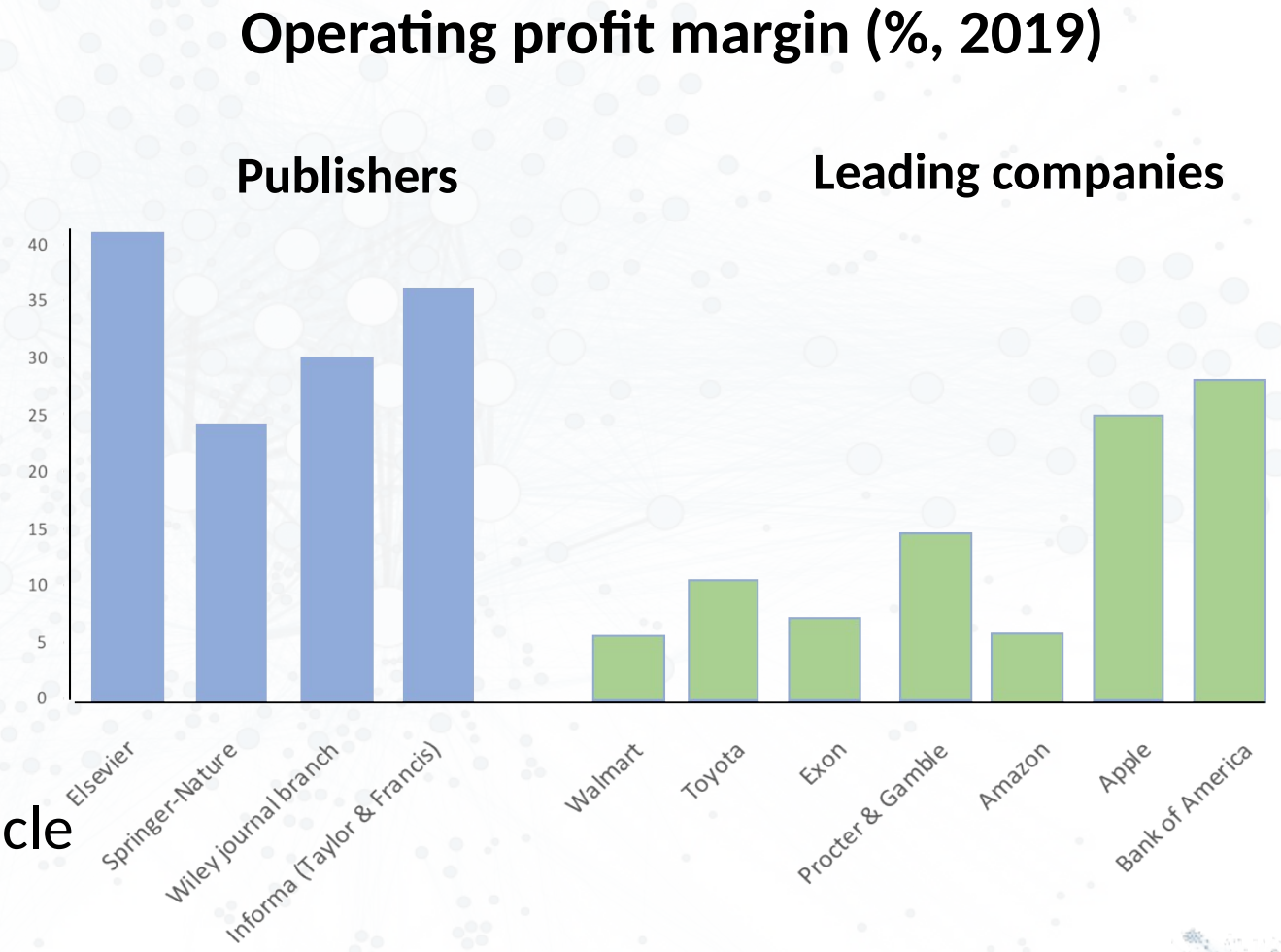
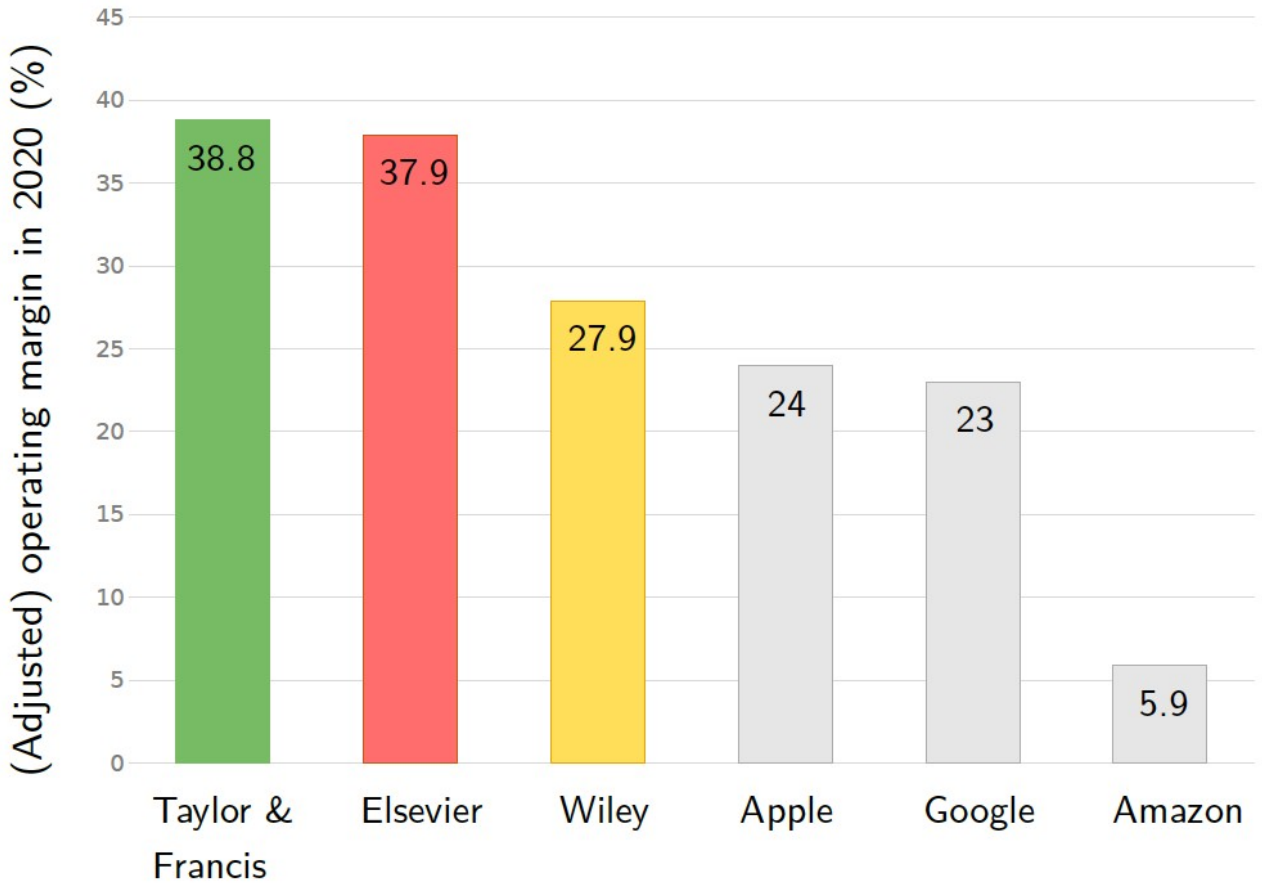


Sources: macrotrends.net, RELX annual report, bloomberg, SPARC, marketscreener.com,

and in 2020 …



BRCP. Against Parasite Publishers: Making Journals Free. (2022). https://doi.org/10.5281/zenodo.7212922

Let’s pay twice …

Hybrid journals

Subscription-based journals

APC-based Open Access Journals

1- Libraries pay subscriptions
2- Laboratories pay APCs

Let’s pay twice … or even thrice!

Hybrid journals

Subscription-based journals

APC-based Open Access Journals

1- Libraries pay subscriptions
2- Laboratories pay APCs
3- Research institutions pay researchers to write, evaluate, edit,

PCI

Re-appropriate the publication system:

Peer Community In
&
Peer Community Journal

Peer Community In & Peer Community Journal

A double publication system

Peer Community In
"PCI"

Peer Reviewed and
recommended preprints

Peer Community Journal
"PCJ"

Diamond Open Access
generalist journal

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

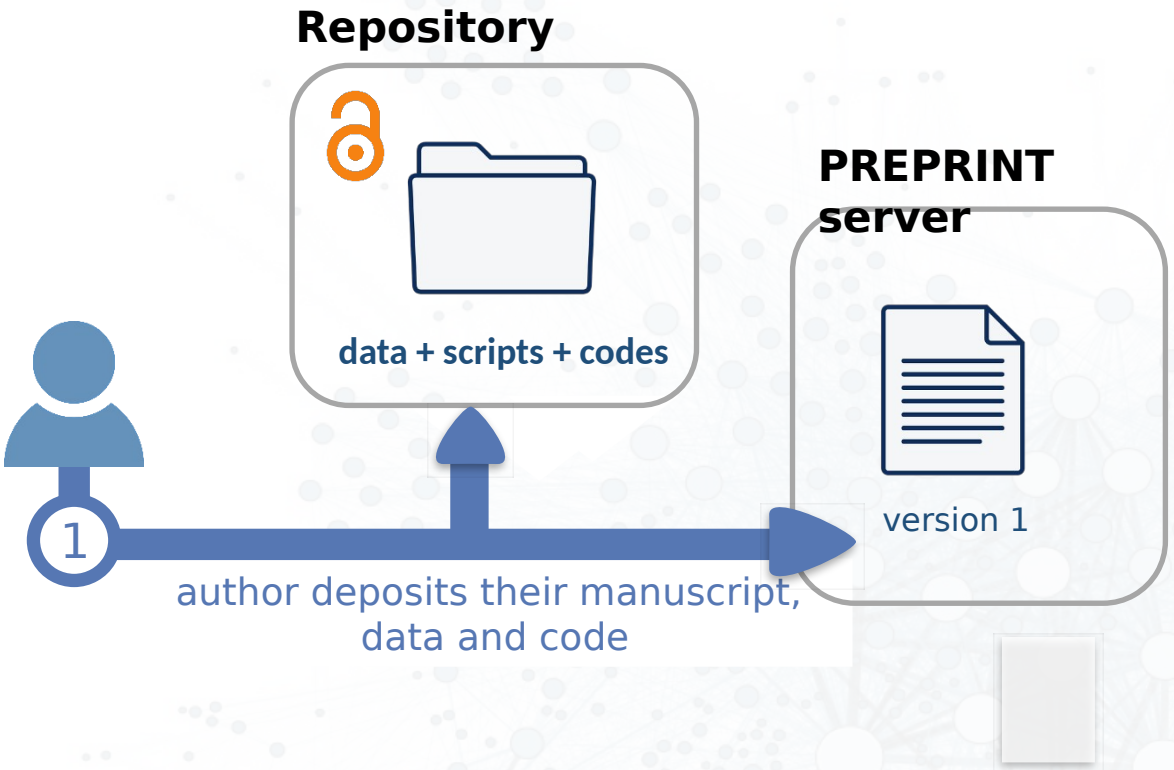
OSF PREPRINTS

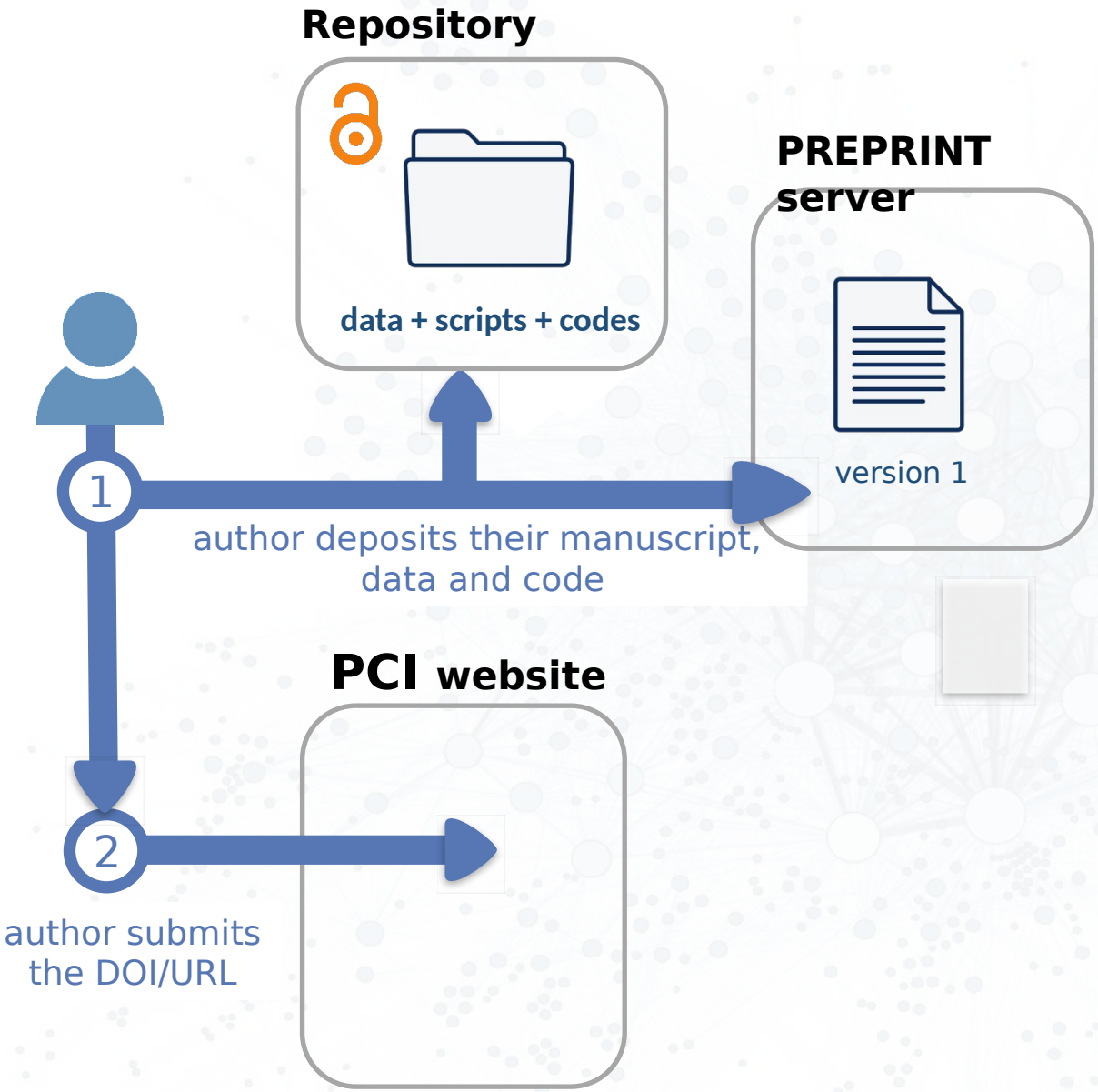
etc …

PCI Ecology
PCI Evolutionary Biology
PCI Genomics
PCI Microbiology
etc..

PCI

How does PCI work?


Repository
data + scripts + codes
PREPRINT server
version 1
1
author deposits their manuscript, data and code


Repository
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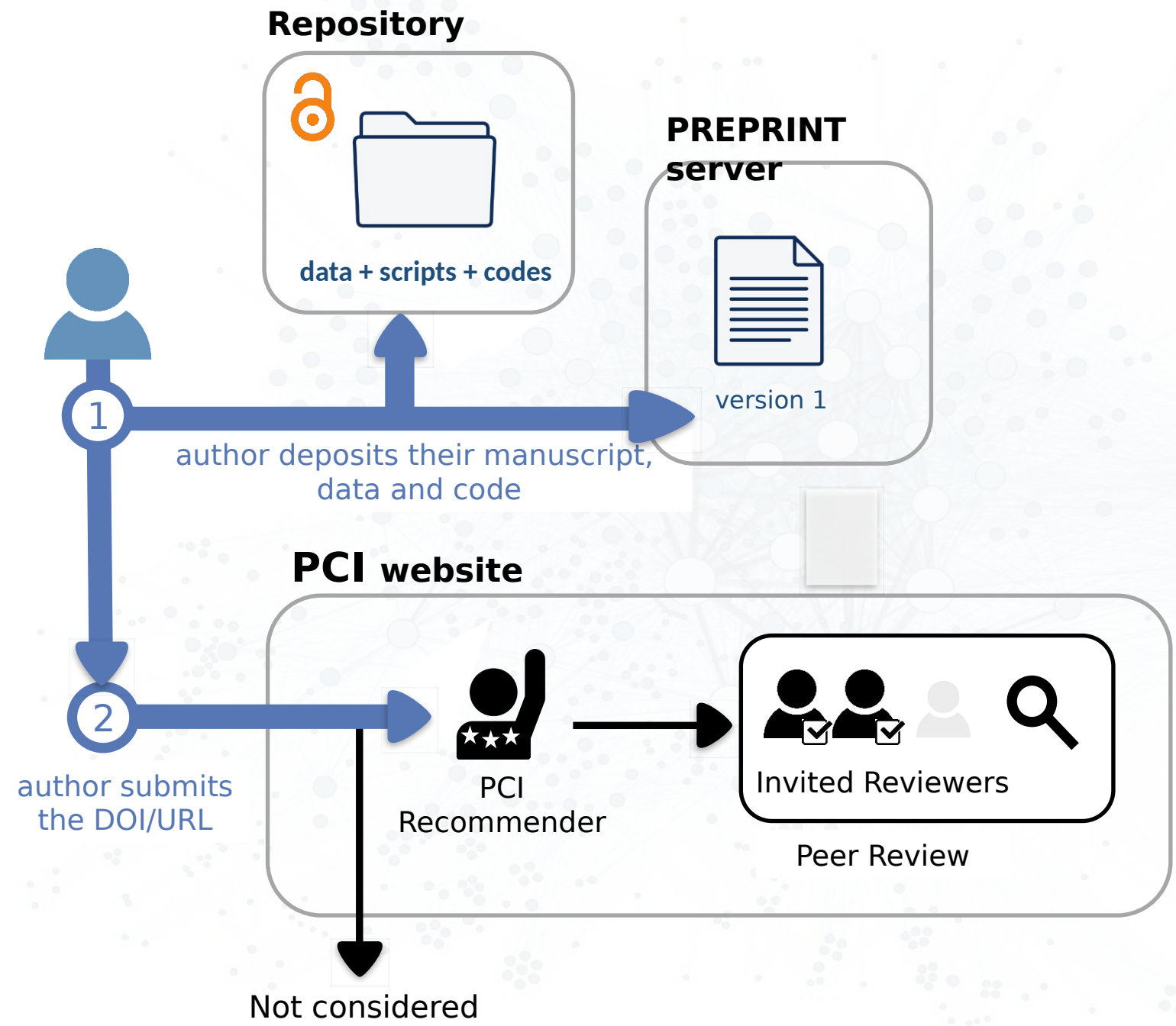
PREPRINT server
version 1
1
author deposits their manuscript, data and code
PCI website
2
author submits the DOI/URL


Repository
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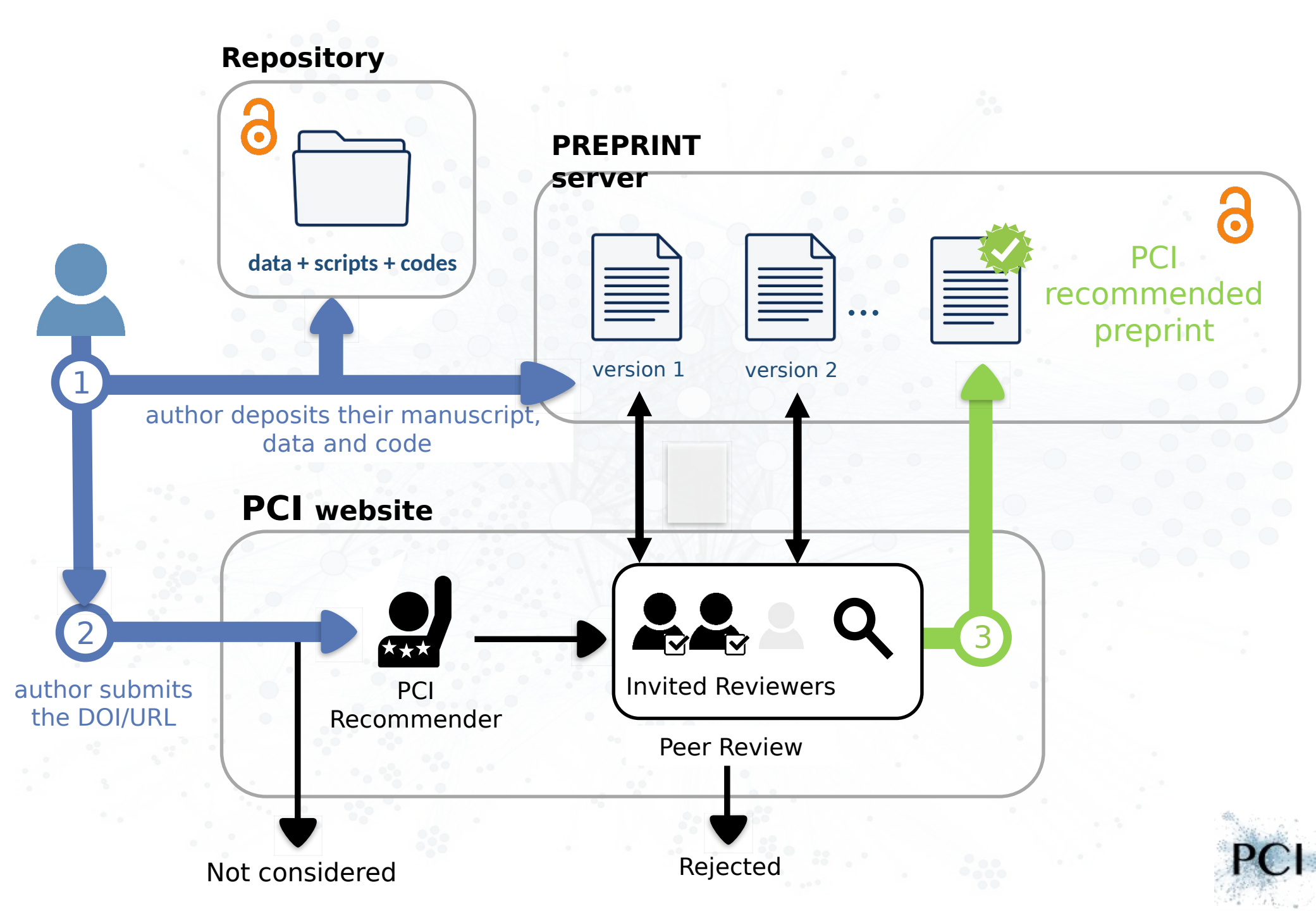
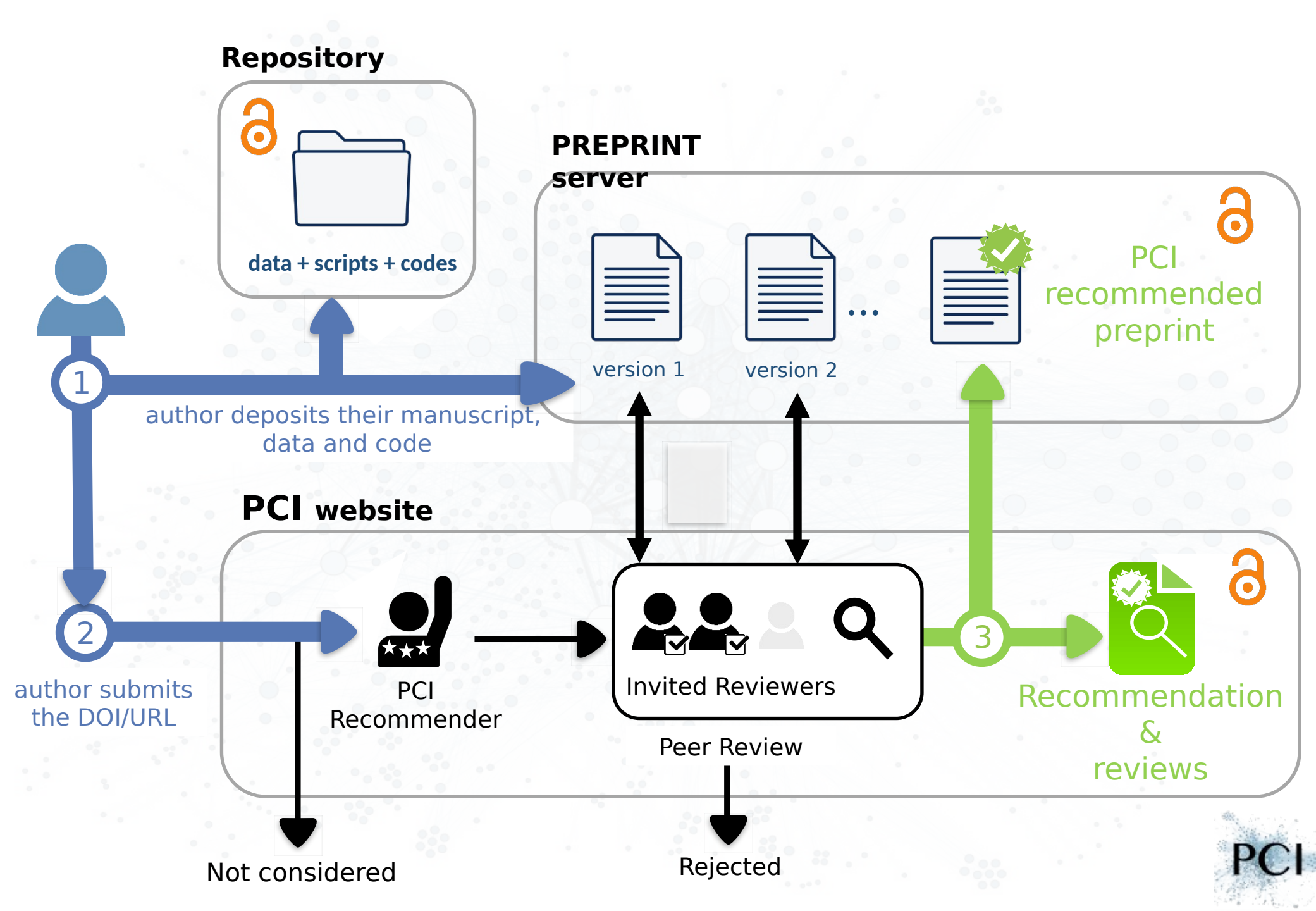
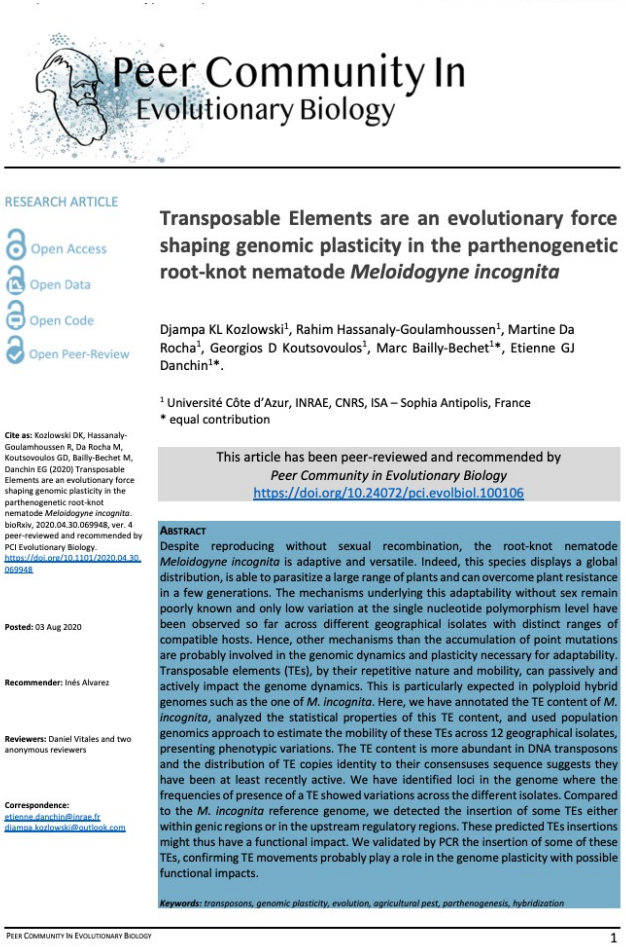
PREPRINT server
version 1
1
author deposits their manuscript, data and code
PCI website
2
author submits the DOI/URL
PCI Recommender
Invited Reviewers
Peer Review
Not considered


Repository
data + scripts + codes
PREPRINT server
version 1
version 2
PCI recommended preprint
1
author deposits their manuscript, data and code
PCI website
2
author submits the DOI/URL
PCI Recommender
Invited Reviewers
3
Peer Review
Not considered
Rejected


Repository
data + scripts + codes
PREPRINT server
version 1
version 2
PCI recommended preprint
1
author deposits their manuscript, data and code
PCI website
2
author submits the DOI/URL
PCI Recommender
Invited Reviewers
Peer Review
3
Recommendation & reviews
Not considered
Rejected

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 Kozlowski[1], Rahim Hassanaly-Goulamhoussen[1], Martine Da Rocha[1], Georgios D Koutsovoulos[1], Marc Bailly-Bechet[1]*, Etienne GJ Danchin[1]*.

[1] Université Côte d'Azur, INRAE, CNRS, ISA – Sophia Antipolis, France
* equal contribution

Cite as: Kozlowski DK, Hassanaly-Goulamhoussen R, Da Rocha M, Koutsovoulos 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:
etienne.danchin@inrae.fr
djampa.kozlowski@outlook.com

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 identity to their consensuses 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 TEs 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*

PCI Evol Biol

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

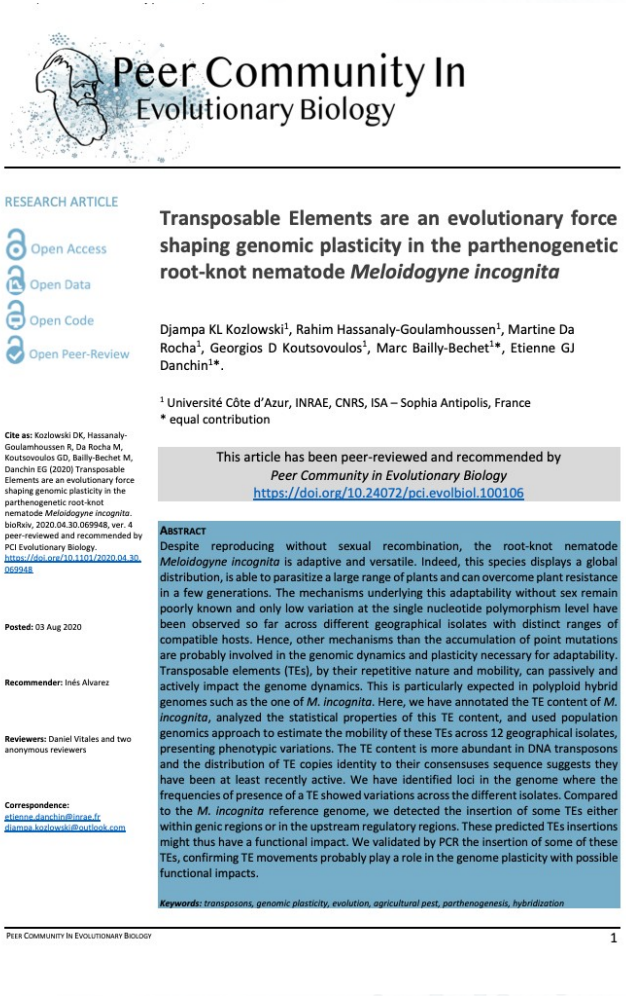
Genetic diversity is a key aspect of biodiversity and has important implications for evolutionary potential and thereby the persistence of species. Improving our understanding of the factors that drive genetic structure within and between populations is, therefore, a long-standing goal in evolutionary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

Open Access
Open Peer-Review
Open Data
Open Code

PCI

PCI-recommended preprint

Recommendation text



Peer Community In Evolutionary Biology

RESEARCH ARTICLE

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Open Access
Open Peer-Review
Open Data
Open Code

Final, valid, findable and citable article

PCI

Recognition by Doctoral Schools

ED ABIES – Univ. Paris-Saclay, France
ED Agrosciences et Sciences – Univ. Avignon, France
ED Ecologie, Évolution, Microbiologie, Modélisation – Univ. Lyon 1, France
ED Écologie, Géosciences, Agronomie, ALimentation – Univ. Rennes, France
ED Energie et Environnement – Univ. Perpignan, France
ED Environnements-Santé – Univ. Bourgogne Franche-Comté, France
ED Espace, Temps, Cultures – Univ. Nanterre, France
ED Gaïa – Univ. Montpellier, France
ED MathSTIC – Univ. Bretagne Loire, France
ED Sciences Chimiques et Biologiques pour la Santé – Univ. Montpellier, France
ED Science de l'Environnement – Univ. Aix Marseille, France
ED Sciences de la Mer et du Littoral – Univ. Brest, Nantes, , France
ED Sciences de la Nature et de l'Homme : écologie & évolution – MNHN, France
ED Sciences de la Vie et de la Santé – Univ. Nice, France
ED Sciences du végétal : du gène à l'écosystème – Univ. Paris-Saclay, France
ED Sciences et Environnement – Univ. Bordeaux, France
ED Sciences Exactes et Applications – Univ. de Pau et des Pays de l'Adour, France
ED Sciences Humaines et Sociales – Perspectives Européennes – Univ. de Strasbourg, France
ED Science, Ingénierie, Environnement – Université Savoie Mont Blanc
ED Sciences, Technologies et Santé – Univ. La Réunion, France
ED SEVAB – Univ. Toulouse, France
ED SMRE – Univ. Lille, France
ED SVSAE – Univ. Clermont Auvergne, France
ED Structure et Dynamique des Systèmes Vivants – Univ. Paris-Saclay, France
ED Theodore Monod – Univ Poitiers, France

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

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

A recommended article has the same value as a published article

PCI

Recognition by evaluation committees

Finland: Julkaisufoorumi Recognition of PCI Evol Biol

France:

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

Section 67 and 74 of
the Conseil National des Universités

Commissions Scientifiques Spécialisées (CSS) of
the French National Institute for Agricultural Research

Commission Scientifique Sectorielle 3 (CSS3) of
the French National Research Institute for Development

Recognition by funders

Peer Reviewed preprints are considered by **most cOAlition S organisations** to be of **equivalent merit and status** as peer-reviewed publications that are published **in a recognised journal** or on a platform

Publication of PCI-recommended preprints & Peer Community Journal

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 (14)

- Acarologia
- Advances in Cognitive Psychology
- Belgian Journal of Zoology
- Cadernos de Linguística
- Frontiers of Biogeography
- International Journal of Limnology
- Journal of Lithic Studies
- OCL - Oilseeds and fats, Crops and Lipids
- Peer Community Journal
- Peer J
- PeerJ Computer Science
- Rethinking Ecology
- Theoretical Roman Archaeology Journal
- Tropical and Subtropical Agroecosystems

PCI RR-friendly journals

- Addiction Research & Theory
- Advances in Cognitive Psychology
- Advances in Methods and Practices in Psychological Science
- Brain and Neuroscience Advances
- Cambridge Educational Research e-Journal
- Communications in Kinesiology
- Cortex
- Experimental Psychology
- F1000Research
- Human Population Genetics and Genomics
- In&Vertebrates
- Infant and Child Development
- Journal for Reproducibility in Neuroscience
- Journal of Cognition
- Meta-Psychology
- NeuroImage: Reports
- Peer Community Journal
- PeerJ
- PeerJ Computer Science
- PeerJ Physical Chemistry
- PeerJ Organic Chemistry
- PeerJ Inorganic Chemistry
- PeerJ Analytical Chemistry
- PeerJ Materials Science
- Psychology of Consciousness: Theory, Research, and Practice
- Royal Society Open Science
- Swiss Psychology Open
- WiderScreen

PCI

PCI-friendly journals

3 categories

2. Fast response (≤ 5 days) to presubmission enquiry (36)

Accept without further reviews **OR** Need further reviews **OR** Not interested

- Animal Welfare
- Annals of Forest Science
- Bulletins et Mémoires de la Société d'Anthropologie de Paris (BMSAP)
- Bulletin of the History of Archaeology
- Collabra: Psychology
- Communications in Kinesiology
- Ecology and Evolution
- Ecology Letters
- European Rehabilitation Journal
- European Scientific Journal
- European zoological journal
- Evolution
- Evolution Letters
- Evolutionary Applications
- Evolutionary Ecology
- FEMS Yeast Research
- GigaByte
- GigaScience
- Heritage
- Journal of Applied Entomology
- Journal of Applied Microbiology
- Journal of Avian Biology
- Journal of Biogeography
- Journal of Computer Applications in Archaeology
- Journal of Evolutionary Biology
- Journal of Iran National Museum
- Journal of Neolithic Archaeology
- Journal of Open Archaeology Data
- Journal of the Israel Prehistoric Society
- Letters in Applied Microbiology
- Molecular Ecology
- Oikos
- PLOS Biology
- Préhistoires méditerranéennes - Mediterranean Prehistories
- Quaternaire
- Veterinary Research

PCI-friendly journals

3 categories

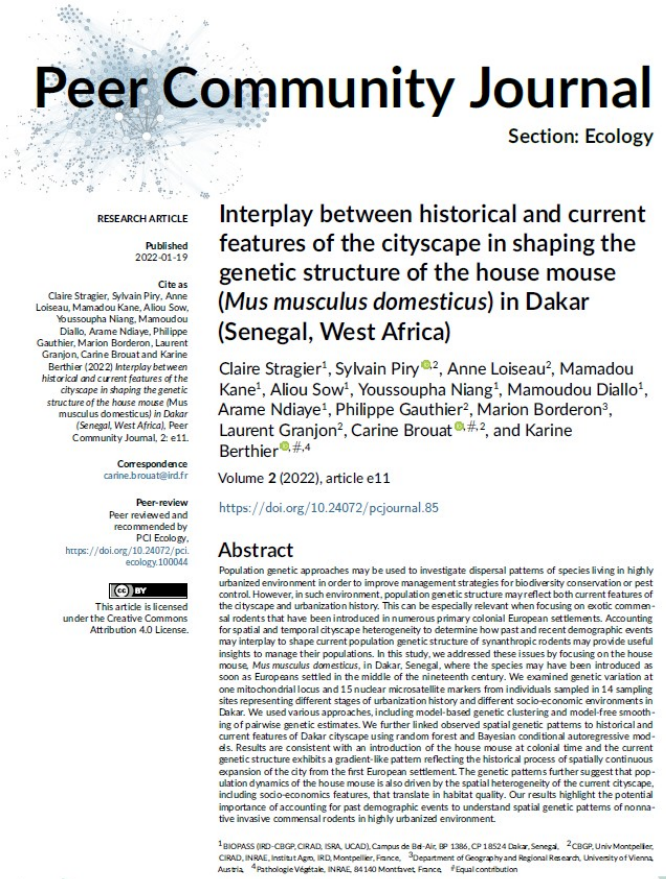
3. May use the evaluations of PCI if adequate (31)

- Adansonia
- Agronomy for Sustainable Development
- Animal
- Animal microbiome
- Anthropozoologica
- Archäologische Informationen
- Botany
- Botany Letters
- Brazilian Journal of Motor Behavior
- Canadian Journal of Animal Science
- Canadian Journal of Fisheries and Aquatic Sciences
- Canadian Journal of Forest Research
- Canadian Journal of Zoology
- Comptes Rendus Palevol
- Cryptogamie, Algologie
- Cryptogamie, Bryologie
- Cryptogamie, Mycologie
- EXARC Journal
- FACETS
- G3: Genes, Genomes, Genetics
- Genetics
- Genome
- Geodiversitas
- Global Ecology and Biogeography
- Internet Archaeology
- Journal of Pollination Ecology
- M@n@gement
- Mathematical Modelling of Natural Phenomena
- Naturae
- Neuroanatomy and Behaviour
- Zoosystema

Peer Community Journal

https://peercommunityjournal.org/

e-ISSN 2804-3871



- Launched in November 2021
- Accepts "**as is" any and only** recommended articles
- **Free for readers and authors**
- Already 184 articles published
- **17 sections**
- **CC-BY Licence**
- **Indexed** in DOAJ, Plan S, CAB ABSTRACTS, Google Scholar, Dimensions, Crossref

- Applications for indexation in WEB OF SCIENCE, PubMed, PCI

In summary

PCI-recommended article

Final, citable article hosted by preprint server

Author's choice to submit to

Peer Community Journal

Direct publication in diamond open access

OR

PCI-friendly journals

- accept with no further peer review

OR

- fast response (≤ 5 days) to presubmission enquiry

OR

- use of PCI evaluation if appropriate

OR

Other journals

If not satisfied by the decision

If not satisfied by the decision

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 (300 €/paper instead of 3000 € on average)

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- **A single evaluation for many journals**
- A mean to resist the big publishers' business (diamond OA)
- recognition of reviewers' and recommenders' work

PCI in figures
&
Current PCIs

PCI in figures

Current PCIs

2017
PCI Evolutionary Biology

2018
PCI Ecology
PCI Paleontology

2019
PCI Animal -Science
PCI Zoology

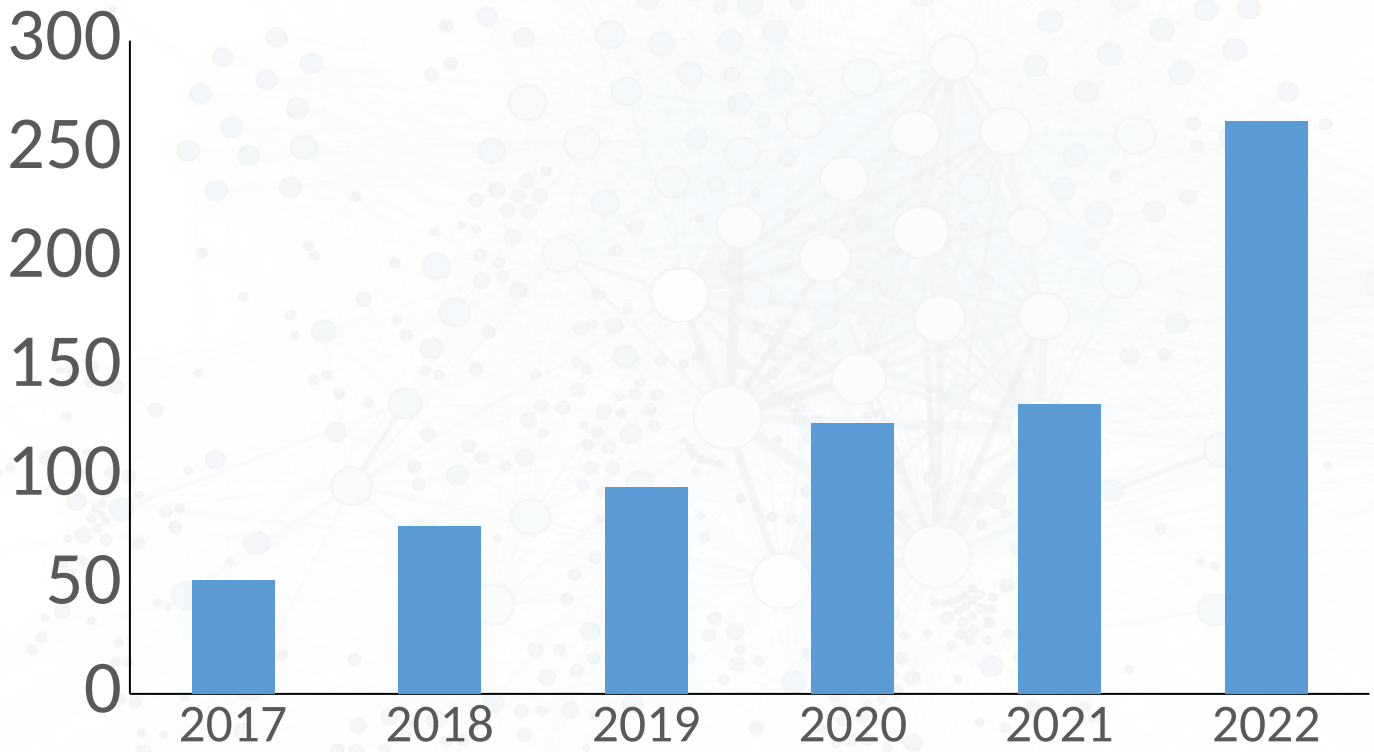
2020
PCI Mathematical and Computational Biology
PCI Forest & Wood Science
PCI Network Science
PCI Genomics
PCI Archaeology
PCI Circuit Neuroscience

2021
PCI Registered Reports
PCI Ecotoxicology and Environmental Chemistry
PCI Infections

2022
PCI Microbiology
PCI Health & Movemen
Sciences

2023
PCI Organization Studies

Submissions received (per year) **overall PCIs**



Supports, awards and recognition

Supports (univ. and research institutes)

Supports (univ. and research institutes)

EUROPE: Belgium, Denmark, Germany, Italy, the Netherlands, Spain, Switzerland

KU LEUVEN

ULB

LIÈGE université

UCLouvain

SDU University of Southern Denmark

VU VRIJE UNIVERSITEIT AMSTERDAM

UNIVERSITAT ROVIRA i VIRGILI

CSIC Consejo Superior de Investigaciones Científicas

ICREA

SIB Swiss Institute of Bioinformatics

Università degli Studi di Milano LA STATALE

MAX-PLANCK INSTITUTE FOR EVOLUTIONARY BIOLOGY

Max Planck Institute for Evolutionary Anthropology

UNITED KINGDOM

University of York

The University Of Sheffield.

BODLEIAN LIBRARIES

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US UNIVERSITY OF SUSSEX

University of BRISTOL

UNIVERSITY OF SURREY

UNIVERSITY OF LIVERPOOL

UNIVERSITY OF BIRMINGHAM

UNIVERSITY OF BATH

Imperial College London

UCL

OTHER COUNTRIES : Argentina, Australia, Israël, USA

Iowa State University

UMBC

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CQUniversity AUSTRALIA

Universidad Nacional del Comahue 1972

PCI

Supports (libraries, societies and others)

Libraries

DET KGL. BIBLIOTEK
Royal Danish Library

Max Planck digital library

les bibliothèques
Université de Montréal
uOttawa L'Université canadienne Canada's university
Bibliothèque Library

Library of the University of Haifa

Bodleian Libraries
University of Oxford

RéseauURFIST

Libraries
Colorado State University

Societies & networks

EcotoQ
eseb European Society for Evolutionary Biology
COSN Chinese Open Science Network
EvoDemOS
sfé²
ECOTOX
Association pour l'Etude de l'Evolution Biologique
ACAPS Association des chercheurs en activités physiques et sportives
Société d'Écotoxicologie Fondamentale et Appliquée
Česká společnost pro ekologii
SSE Society for the Study of Evolution
Max Planck Gesellschaft
ecotoxicomic
apbe
aeet Asociación Española de Ecología Terrestre
SIBECOL
HELECOS
NSO Nordic Society Oikos Bringing Nordic ecologists together
ekoevo Ekoloji ve Evrimsel Biyoloji Derneği
sesbe
STORK Society for Transparency Openness and Replication in Kinesiology
KNDV

Other

CNRS Les Sciences Archéologiques de Bordeaux
LabEx TULIP
CeMEB Centre Mediterranéen Environnement et Biodiversité
LabEx ECOFECT Eco-Evolutionary Dynamics of Infectious Diseases
arbre
LabEx BASC Biodiversité, Agroécosystèmes, Société, Climat
LabEx COTE
ceba biodiversity in amazonia
Plume! science apéritive
agropolis fondation

COAR
OSF PREPRINTS
HAL archives-ouvertes.fr
paleorxiv
EcoEvoRxiv
AfricArXiv
SOCArXiv

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Awards and projects

2020 LIBER Award for Library Innovation

Pilote project « Notify » with

COAR Confederation of Open Access Repositories

Los Alamos NATIONAL LABORATORY

HARVARD LIBRARY

HAL archives-ouvertes.fr

ARCADIA
A CHARITABLE FUND OF
LISBET RAUSING & PETER BALDWIN

PCI

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."**

1021 colleagues have signed so far

PCI

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

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peercommunityin.org

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- **Join us as reviewers and recommenders**
- **Follow us:**

Mastodon	@PeerCommunityIn@ecoevo.social @PeerCommunityJournal@ecoevo.social
Twitter	@PeerCommunityIn @PeerComJournal
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- **Create new PCIs**

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

Mastodon	@PeerCommunityIn@ecoevo.social @PeerCommunityJournal@ecoevo.social
Twitter	@PeerCommunityIn @PeerComJournal
LinkedIn	https://www.linkedin.com/company/peer-community-in/

- **Create new PCIs**
- **More generally participate in real open science (Diamond OA, society/university journals, …)**

Thanks!

https://peercommunityin.org

https://
peercommunityjournal.org

The PCI team

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Web designer & web developer

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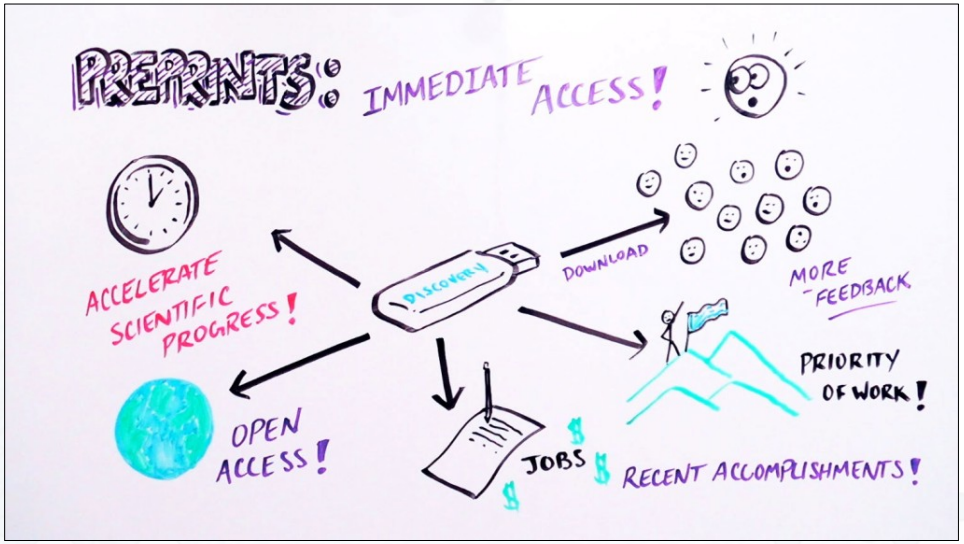
Editorial assistant

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