

Peer Community In & Peer Community Journal

Denis Bourguet Benoit Facon Thomas Guillemaud Marjolaine Hamelin



From preprint recommendation to Diamond Open Access publication





Scientific publishing



Too long

Cascade of submissions/rejections Sometimes between 1 or 2 years between submission and publication



Opaque

Evaluation reports and editor's name not published Data, scripts and codes often not published Conflicts of interest not disclosed 70% of articles are behind paywalls



Pernicious

The income of the publisher depends directly on the number of articles accepted



Too expensive

9 billion € / 3 millions articles = 3000 € / article (France: ~ 150 M € /year) Extraordinary profit margin (35-40% for the 5 big publishers)



Researchers do nearly everything...for free As authors, editors, reviewers, they write, evaluate, edit, proofread Re-appropriation of 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

n 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.



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



How does PCI work?

PCI

Repository	
	PREPRINT serve
data + scripts + code	
	version 1
author deposits their manuscr data and code	ipt,













Recommendation

🗗 Share 😏 Tweet

Printable page

Diverse outcomes in cheese fungi domestication

Christelle Fraïsse based on reviews by Delphine Sicard and 1 anonymous reviewer

A recommendation of:



Domestication of different varieties in the cheese-making fungus

Geotrichum candidum

Bastien Bennetot, Jean-Philippe Vernadet, Vincent Perkins, Sophie Hautefeuille, Ricardo C. Rodríguez de la Vega, Samuel O'Donnell, Alodie Snirc, Cécile Grondin, Marie-Hélène Lessard, Anne-Claire Peron, Steve Labrie, Sophie Landaud, Tatiana Giraud, Jeanne Ropars (2023), biolkxiv, ver.4, peer-reviewed and recommended by PCI Evol Biol

https://doi.org/10.1101/2022.05.17.492043

	► ()
Data used for results	
Codes used in this study	×
Scripts used to obtain or analyze results –	~
Abstract	×
Suggested Reviewers	×
Opposed reviewers	~

Link to PCI-recommended preprint Final, valid, findable and citable article

Open Access Open Peer-Review

Open Data Op

🗩 Open Code

Recommendation text

Published, citable and argued editorial decision

Submission: posted 12 August 2022 Recommendation: posted 23 March 2023, validated 24 March 2023

Recommendation -

Domestication is a complex process that imprints the demography and the genomes of domesticated populations, enforcing strong selective pressures on traits favourable to humans, e.g. for food production [1]. Domestication has been quite intensely studied in plants and animals, but less so in micro-organisms such as fungl, despite their assets (e.g. their small genomes and tractability in the lab). This elegant study by Bennetot and collaborators [2] on the cheese-making fungus *Geotrichum candidum* adds to the mounting body of studies in the genomics of fungi, proving they are excellent models in evolutionary biology for studying adaptation and drift in eukaryotes [3].

Bennetot et al. newly showed with whole genome sequences that all *G. candidum* strains isolated from cheese form a monophyletic clade subdivided into three genetically differentiated populations with several admixed strains, while the wild strains sampled from diverse geographic locations form a sister clade. This suggests the wild progenitor was not sampled in the present study and calls for future exciting work on the domestication history of the *G. candidum* fungus. The authors scanned the genomes for footprints of adaptation to the cheese environment and identified promising candidates, such as a gene involved in iron uptake (this element is limiting in cheese). Their functional genome analysis also provides evidence for higher contents of transposable elements in cheese-making strains, likely due to relaxed selection during the domestication process.

This paper is particularly impressive in that the authors complemented the population genomic approach with the phenotypic characterization of the strains and tested their ability to outcompete common fungal food spoilers. The authors convincingly showed that cheese-making strains display phenotypic differences relative to wild relatives for multiple traits such as slower growth, lower proteolysis activity and a greater amount of volatiles attractive to consumers, these phenotypes being beneficial for cheese making.

Finally, this work is particularly inspiring because it thoroughly discusses convergent evolution during domestication in different cheese-associated fungi. Indeed, studying populations experiencing similar environmental pressures is fundamental to understanding whether evolution is repeatable [4]. For instance, all three cheese populations of *G. candidum* exhibit a lower genetic diversity than wild populations. However, only one population displays a stronger domestication syndrome, resembling the *Penicillium camemberti* situation [5]. Furthermore, different cheese-making practices may have led to varying situations with clonal lineages in non-Roquefort *P. roqueforti* and *P. camemberti* [5, **G**], while the cheese-making *G. candidum* populations still harbour some diversity. In a nutshell, Bennetot's study makes an important contribution to evolutionary biology and highlights the value of diversifying our model organisms toward under-represented clades.

REFERENCES

[1] Diamond J (2002) Evolution, consequences and future of plant and animal domestication. Nature 418: 700–707. https://doi.org/10.1038/nature01019

[2] Bennetot B, Vernadet J-P, Perkins V, Hautefeuille S, Rodríguez de la Vega RC, O'Donnell S, Snirc A, Grondin C, Lessard M-H, Peron A-C, Labrie S, Landaud S, Giraud T, Ropars J (2023) Domestication of different varieties in the cheese-making fungus Geotrichum candidum. bioRxiv, 2022.05.17.492043, ver. 4 peer-reviewed and recommended by Peer Community in Evolutionary Biology. https://doi.org/10.1101/2022.05.17.492043

[3] Gladieux P, Ropars J, Badouin H, Branca A, Aguileta G, de Vienne DM, Rodríguez de la Vega RC, Branco S, Giraud T (2014) Fungal evolutionary genomics provides insight into the mechanisms of adaptive divergence in eukaryotes. Mol. Ecol. 23: 753–773. https://doi.org/10.1111/mec.12631

[4] Bolnick DI, Barrett RD, Oke KB, Rennison DJ, Stuart YE (2018) (Non)Parallel evolution. Ann. Rev. Ecol. Evol. Syst. 49: 303–330. https://doi.org/10.1146/annurev-ecolsys-110617-062240

[5] Ropars J, Didiot E, Rodríguez de la Vega RC, Bennetot B, Coton M, Poirier E, Coton E, Snirc A, Le Prieur S, Giraud T (2020) Domestication of the Emblematic White Cheese-Making Fungus Penicillium camemberti and Its Diversification into Two Varieties. Current Biol. 30: 4441–4453.e4. https://doi.org/10.1016/j.cub.2020.08.082

[6] Dumas, E, Feurtey, A, Rodríguez de la Vega, RC, Le Prieur S, Snirc A, Coton M, Thierry A, Coton E, Le Piver M, Roueyre D, Ropars J, Branca A, Giraud T (2020) Independent domestication events in the blue-cheese fungus Penicillium roqueforti. Mol Ecol. 29: 2639–2660. https://doi.org/10.1111/mec.15359

Automatic notifications to databases





Automatic notifications to preprint servers / open archives









PCI recommendation





Linked Data Notifications



PCI



Simplified Preprint Submission to PCI from HAL

Possible at the end of the HAL deposit form, if 2 conditions are fulfilled:

- the selected document type is "Preprint/Prepublication"
- a full-text file is deposited

I submit my preprint to a publishing or a peer-review service

Select the service of your choice from the list below

Once your deposit is online on HAL, your preprint will be automatically transferred to this service.

Peer Community In

Animal Science Archaeology Ecology Ecotoxicology and Environmental Chemistry **Evolutionary Biology** Forest and Wood Sciences Genomics Health and Movement Sciences Infections Mathematical and Computational Biology Microbiology Network Science Neuroscience **Organization Studies** Paleontology Zoology

The authors then receive **a link to complete their submission** on the corresponding PCI website.



PCI-recommended preprint



OR

PCI-friendly journals

OR





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
 - 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

- Peer Community Journal
- Peer J
- PeerJ Computer Science
- Rethinking Ecology
- Theoretical Roman Archaeology Journal
- Tropical and Subtropical Agroecosystems
 - 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-friendly journals

3 categories 1. Accept without further reviews 2. Fast response (≤ 7 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
- PLoS One
- Préhistoires méditerranéennes -
- Mediterranean Prehistories
- Quaternaire
- Veterinary Research



PCI-friendly journals

3 categories

Accept without further reviews
 Fast response (≤ 5 days) to presubmission enquiry

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

- Launched in November 2021
- Accepts "as is" any and only recommended articles
- Free for readers and authors
- Already 315 articles published
- 17 sections
- CC-BY Licence
- Indexed in *I* DOAJ <a>Plan S

 Crossref Google Scholar <a>Dimensions

ensions Sherpa Romeo

CAB ABSTRACTS

Applications for indexation in WEB OF SCIENCE Scopus



UG Éditions https://peercommunityjournal.org/

e-ISSN 2804-3871

Peer Community Journal

Section: Health & Movement Sciences

RESEARCH ARTICLE PUBBING 2023-08-31 Cite as Katerina Newman¹, Cyril Forestier², Boris

Forestier, Boris Cheval, Zschary Zenko, Margaux de Candrear ad Amanda L. Rebar (2023) Composition Abbit Schowlaw (Starting and Starting and Starting

https://doi.org/10.24072/pcjournal.311

Peer-review Abstract

Peer reviewed and recommended by E PCI Health & Movement Sciences, e https://doi.org/10.24072/pci. healthmovsci.100002

Correspondence a.rebar@cgu.edu.au

(cc) by This article is licensed under the Creative Commons Attribution 4.0 License.

Evidence shows that people with strong physical activity habits tend to engage in more physical activity than those with weaker habits, but little is known about how habit influ-ences specific types of physical activity. This study aimed to test whether mean level of abit strength and magnitude of the habit strength - behaviour association differed as a function of physical activity modality. Participants (N = 120; M age = 25 years, 75% feale) who reported engaging in organised sport separately reported their habit strength or organised sport and leisure time physical activity as well as the time they spent en ging in these physical activity behaviours. Means comparisons and multi lling revealed that people had significantly stronger habit for organised sport than for eisure time physical activity. Crucially, no significant difference was found in the mag nitude of the sport-habit and leisure-habit link. Post-hoc analyses revealed that habit for team sport compared to individual sport, but that there was cant difference in sport-habit association between team and individual sports. Research hould therefore focus on identifying the characteristics of team sports-based activit that are particularly conducive to babit formation as a precursor to developing intervent ions to promote performance of leisure time activity in a way that would attain suc characteristics.

Methodico of Habith Behavious Liu, Appieton Instituto, Cenzzi Queentano University - Rochamptor, Instituta, ²utoroitaria, Metrida, Hinestendor, Performano, R.IN-CatASI, et Manu Universiti - Le Mans, mano, ³Regartamet ef soort Sonnes and Physical Elaszation, Ecole normale apprivate Reviews - Buu, reviews - ¹Stato Stato Y 2015, University of enters - Bernse, ²Facor, ²Stato Habita University - Galaman, ⁴Lendoratory Visita, University of enters - Bernse, ¹Reviews, ¹Stato solution and Theory group, Health Psychology Research Group, School of Psychology, University of Summ Londow, University Regim

Peer Community Journal is a member of the Centre Mersenne for Open Scientific Publishi http://www.centre-mersenne.org/ MERSENNE e-ISSN 2804-3871

Web-published in collabo with UGA Éditions





Sign and share the **#PCIManifesto**

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



commit to submitting, within 15 months following the signing of this manifesto, at least one of my best articles to a PC for peer review and, if recommended, to publish it in the Peer Community Journal

1109 researchers from 60 countries have signed so far

1 recommended preprint, 4 options!



1 Stop there!

The recommended article on the open archive is findable, accessible, citable

2 Publish the article directly in Peer Community Journal The recommended article becomes a diamond open access journal article



3 Submit the article to one of the PCI-friendly journals
 These journals either 1. Accept the article without further reviews if in the scope (14)
 2. Give a fast response (≤ 5 days) to presubmission enquiry (36)
 3. May use the evaluations of PCI if adequate (31)
 4 Submit the article to other journals

The 10 benefits of the PCI model

- 1. Big savings for research agencies: 300 €/paper vs 3000 € (on average)
- 2. Promotion of reproducible research: data, scripts, codes available
- 3. Transparency: published evaluations, decisions, sources of fundings
- 4. Valuing reviewers' effort: recommendation usable by any journal
- 5. Shared workload: community of recommenders
- 6. Valorisation of researchers' editorial work: citable recommendations
- 7. Independence: fully operated by researchers only
- 8. No economic publication bias: diamond open-access model/preprints
- 9. Collective decisions: community-based organisation
- 10. Multidisciplinarity: applicable to all research fields

PCI in figures & Current PCIs

PC

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 Neuroscience 2021 *PCI Registered Reports* PCI Ecotoxicology and Environmental Chemistry PCI Infections

2022

PCI Microbiology PCI Health & Movement Sciences

2023 PCI Organization Studies



Increasing activity



Supports, awards and recognition

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



Recognition by committees and doctoral schools



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

30 doctoral schools including :

- ED Gaïa
- ED Sciences Chimiques et Biologiques pour la Santé



Supports NORTH AMERICA Iowa State University Bibliothèque Harvard les bibliothèques Ш **WUMBC** Library Université m uOttawa IBRARIES Library de Montréal COLORADO STATE UNIVERSITY Faculté des sciences de la santé Faculty of Health Sciences **UNITED KINGDOM** UNIVERSITY OF **W**University of **UC** UNIVERSITY **Imperial College** BRISTOL London UNIVERSITY **OF SUSSEX UNIVERSITY**OF UNIVERSITY OF The UNIVERSITY UNIVERSITY OF OXFORD BIRMINGHAM University University of Glasgow BATH Of Sheffield. University of Exeter Ш. **EUROPE** MAX PLANCK MAX-PLANCK INSTITUTE **Max Planck Institute** FOR EVOLUTIONARY BIOLOGY digital library <u>ه</u> for Evolutionary Anthropology VRIJE UNIVERSITEIT VU DET KGL **ICREA** AMSTERDAM **KU LEUVEN** ULB **GHENT** SDUA Royal Danish Library UNIVERSITAT UNIVERSITY **ROVIRA i VIRGILI** UCLouvain LIEGE UNIVERSIT University of DEGLI STUD Southern[']Denmark **DI MILANO** SIB LA STATALE Swiss Institute of **Bioinformatics OTHER COUNTRIES** Universiteit אוניברסיטת חיפה niversity Leiden University of Haifa جامعة جنفا

How to get involved?



- Submit your articles to a PCI
- Publish in Peer Community Journal
- Volunteer to format for Peer Community Journal
- Join us as reviewers and recommenders
- Create a new PCI:

https://peercommunityin.org/2019/05/21/steps-in-the-creation-of-anew-pci/

- Attend the PCI Webinars series events: https://peercommunityin.org/pci-webinar-series/
- More generally participate in real open science (Diamond OA, society/university journals, ...)
- Follow us on social media



Thanks!



https://peercommunityin.org

https://peercommunityjournal.org



@PeerCommunityIn@ecoevo.social
@PeerCommunityJournal@ecoevo.social



@peercommunityin.bsky.social
@peercomjournal.bsky.social



https://www.linkedin.com/company/peer-community-in/