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Junio 2024

Carolina Quezada

Investigadora Académica Facultad de Ciencias UCSC
eLife Early career advisory group (ECAG) 2019-2023

eLife mission

A **non-profit**, **led by scientists**, with **a history and a mandate to improve and accelerate scientific communication**!

- 2020: exclusively reviewing preprints and posting reviews publicly to those preprints

- **2023: a new publishing model** that replaces post-review accept/reject decisions with a peer-reviewed preprint

eLife

2023: Key changes to the publishing process

- We will publish **manuscripts with reviews** and an **eLife assessment** on the eLife website

- eLife will **no longer make accept/reject decisions** after review

- **Authors choose** when to publish a **version of record** (these are the items that will be sent for indexing)

- **Upfront Article Processing Charge** (APC) of $2,000 charged at the point of sending to peer review (rather than the current USD $3,000 charged at publication). Full waivers are available.

eLife

The new publishing model at eLife

5 VERSION OF RECORD

4 AUTHOR REVISION

3 PUBLICATION

2 PEER REVIEW

1 SUBMISSION

- The new **model provides expert public review and assessment of preprints**.
- This model promotes **scientists' evaluation based on what, not where, they publish**.
- The end output of the new model (version of record) is equivalent to published articles under the old model

Submission

5 VERSION OF RECORD

4 AUTHOR REVISION

3 PUBLICATION

2 PEER REVIEW

1 SUBMISSION

- **We review only preprints**: just send us a **URL to your preprint** and we'll do the rest

- Encourage submission of already posted preprints

- Editors who are experts in their field will consult together and send papers (preprints) to peer review **if they are confident we can produce high-quality reviews that will be of value to the community**

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COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

Subject Areas

All Articles

Animal Behavior and Cognition	Ecology	Paleontology
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Bioinformatics	Genetics	Physiology
Biophysics	Genomics	Plant Biology
Cancer Biology	Immunology	Scientific Communication and Education
Cell Biology	Microbiology	
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COVID-19 SARS-CoV-2 preprints from medRxiv and bioRxiv

Subject Areas

All Articles

Addiction Medicine	Hematology	Pain Medicine
Allergy and Immunology	HIV/AIDS	Palliative Medicine
Anesthesia	Infectious Diseases (except HIV/AIDS)	Pathology
Cardiovascular Medicine	Intensive Care and Critical Care Medicine	Pediatrics
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Empowering Early Career Researchers to Improve Science

Edit preprint

AUTHORS

Brianne A Kent, Constance Holman, Emmanuella Amoako, Alberto Antonietti, JAMES MBA Azam, Hanne Ballhausen, Yaw Bediako, Anat M. Belasen, Clarissa França Dias Carneiro, Yen-Chung Chen, Ewoud Compeer, Chelsea A. C. Connor, Sophia Crüwell, Humberto Debat, Emma Dorris, Hedyeh Ebrahimi, Jeffrey C. Erlich, Florencia Fernández-Chiappe, Felix Fischer, Małgorzata Anna Gazda, Toivo Glatz, Peter Grabitz, Verena Heise, David Kent, Hung Lo, Gary S. McDowell, Devang Mehta, Wolf-Julian Neumann, Kleber Neves, Mark Patterson, Naomi Penfold, Sophie Piper, Iratxe Puebla, Peter K Quashie, Carolina Paz Quezada, Julia Riley, Jessica L. Rohmann, Shyam Saladi, Benjamin Schwessinger, Bob Siegerink, Paulina Stehlik, Alexandra Tzilivaki, Kate L. Umbers, Aalok Varma, Kaivalya Walavalkar, Charlotte M de Winde, Cecilia Zaza, Tracey Weissgerber

AUTHOR ASSERTIONS

Conflict of Interest: Yes ▾   Public Data: Not applicable ▾   Preregistration: Not applicable ▾

Página: 1 de 28   Aumento automático

Empowering Early Career Researchers to Improve Science

Brianne A. Kent[1], Constance Holman[2], Emmanuella Amoako[3], Alberto Antonietti[4], James M. Azam[5], Hanne Ballhausen[2,6], Yaw Bediako[3], Anat M. Belasen[7], Clarissa F. D. Carneiro[8], Yen-Chung Chen[9], Ewoud B. Compeer[10], Chelsea A. C. Connor[11], Sophia Crüwell[12], Humberto Debat[13], Emma Dorris[14] Hedyeh Ebrahimi[15], Jeffrey C. Erlich[16], Florencia Fernández-Chiappe[17], Felix Fischer[18], Małgorzata Anna Gazda[19], Toivo Glatz[20], Peter Grabitz[21], Verena Heise[22], David G. Kent[23], Hung Lo[24], Gary McDowell[25], Devang Mehta[26], Wolf-Julian Neumann[27], Kleber Neves[28], Mark Patterson[29], Naomi C. Penfold[30], Sophie K. Piper[31,32], Iratxe Puebla[33], Peter K Quashie[34], Carolina Paz Quezada[35], Julia L. Riley[36], Jessica L. Rohmann[37,38], Shyam Saladi[39], Benjamin Schwessinger[40], Bob Siegerink[41,42], Paulina Stehlik[43], Alexandra Tzilivaki[44,45], Kate D. L. Umbers[46], Aalok Varma[47], Kaivalya Walavalkar[48], Charlotte M. de Winde[49], Cecilia Zaza[50], Tracey Weissgerber[51]

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Abstract

Early career researchers (ECRs) are important stakeholders leading efforts to catalyze systemic change in the conduct and communication of science. Here, we summarize the outputs from a virtual unconventional conference (unconference), which brought together 54 invited experts from 20 countries with extensive experience in ECR initiatives designed ...

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Supplemental Materials

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Preprint DOI

10.31219/osf.io/p5evw

Tips & Tricks for ECR Initiatives Working...   Metadata   Files   Wiki   Analytics   Registrations   Contributors   Add-ons   Settings

Tips & Tricks for ECR Initiatives Working to Improve Science

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Contributors: Constance Holman, Tracey Weissgerber, Brianne A Kent, Bob Siegerink, Benjamin Schwessinger, Clarissa França Dias Carneiro, Sophia Crüwell, David Kent, Humberto Debat, Devang Mehta, Ewoud Compeer, Felix Fischer, Gary S. McDowell, Toivo Glatz, Peter Grabitz, Hung Lo, Julia Riley, Kaivalya Walavalkar, Kleber Neves, Charlotte M de Winde, Mark Patterson, Naomi Penfold, Wolf-Julian Neumann, Sophie Piper, Paulina Stehlik, Jessica L. Rohmann, Aalok Varma, Verena Heise, Yen-Chung Chen, Yaw Bediako, **Carolina Paz Quezada**, Emma Dorris, Anat Belasen, Iratxe Puebla, Alexandra Tzilivaki, Hanne Ballhausen, Emmanuella Amoako, Florencia Fernández Chiappe, JAMES MBA Azam, María Cecilia Zaza, Kate Umbers, Peter Quashie, Shyam Saladi, Hedyeh Ebrahimi, Alberto Antonietti, Małgorzata Anna Gazda, Chelsea Connor

⌃

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Identifier: DOI 10.17605/OSF.IO/AD57E

Category: 📦 Project

Description:

These Tips and Tricks were collected as part of a virtual brainstorming event in September 2020 from participants with experience in initiatives aiming to improve science. This document is a supplement to the preprint "Empowering Early Career Researchers to Improve Science", which lists additional lessons learned.

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Has supplemental materials for Empowering Early Career Researchers to Improve Science on OSF Preprints ⌄

List of academic publishers by preprint policy

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This is a list of publishers of academic journals by their submission policies regarding the use of preprints prior to publication (example list).

Publishers' policies on self-archiving (including of preprint versions) can also be found at SHERPA/RoMEO.

Policies by publisher   [edit]

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In general, most publishers that permit preprints require that:

- the authors disclose the existence of the preprint at submission (e.g. in the cover letter)
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- the preprint should not have been formally peer reviewed

Publishers may place additional restrictions (e.g. specifying non-commercial servers or preferred licenses). Most publishers have a unified policy across all of their journals, however some journals list exceptions in their own policies.

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	Location ⬍	Version ⬍	License ⬍	
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American Association for Cancer Research	Unrestricted	Must *not* post revised manuscript (after peer review or editorial comment)	Unrestricted	[3]
American Association for Physics in Medicine	Non-commercial servers (e.g. arXiv, Open Science Framework, Zenodo)	Unrestricted	Unrestricted	[4]
American Chemical Society	Unrestricted	Unrestricted	Unrestricted	[5]

PLOS BIOLOGY

CONSENSUS VIEW

Recommendations for empowering early career researchers to improve research culture and practice

Brianne A. Kent, Constance Holman, Emmanuella Amoako, Alberto Antonietti, James M. Azam, Hanne Ballhausen, Yaw Bediako, Anat M. Belasen, Clarissa F. D. Carneiro, Yen-Chung Chen, Ewoud B. Compeer, Chelsea A. C. Connor, Sophia Crüwell, [···], Tracey L. Weissgerber ✉ [view all]

| Version 2 ▼ | Published: July 7, 2022 • https://doi.org/10.1371/journal.pbio.3001680 |

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Abstract

Introduction

Recommendations for ECRs involved in research improvement activities

Recommendations for stakeholders

Conclusions

Supporting information

Acknowledgments

References

Reader Comments

Figures

Abstract

Early career researchers (ECRs) are important stakeholders leading efforts to catalyze systemic change in research culture and practice. Here, we summarize the outputs from a virtual unconventional conference (unconference), which brought together 54 invited experts from 20 countries with extensive experience in ECR initiatives designed to improve the culture and practice of science. Together, we drafted 2 sets of recommendations for (1) ECRs directly involved in initiatives or activities to change research culture and practice; and (2) stakeholders who wish to support ECRs in these efforts. Importantly, these points apply to ECRs working to promote change on a systemic level, not only those improving aspects of their own work. In both sets of recommendations, we underline the importance of incentivizing and providing time and resources for systems-level science improvement activities, including ECRs in organizational decision-making processes, and working to dismantle structural barriers to participation for marginalized groups. We further highlight obstacles that ECRs face when working to promote reform, as well as proposed solutions and examples of current best practices. The abstract and recommendations for stakeholders are available in Dutch, German, Greek (abstract only), Italian, Japanese, Polish, Portuguese, Spanish, and Serbian.

Subject Areas

Careers ⊙

Careers in research ⊙

Research funding ⊙

Scientists ⊙

Decision making ⊙

Open science ⊙

Reproducibility ⊙

Scientific publishing ⊙

Figures

Peer Review

5 VERSION OF RECORD

4 AUTHOR REVISION

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1 SUBMISSION

- **We will no longer issue accept/reject decisions after peer review.**
- Each reviewer will submit a public review as well as private suggestions for authors.
- Editors and reviewers consult to write a consensus **eLife assessment** using common vocabulary to summarize the **significance of the research** and the **strength of evidence** supporting the conclusions.
- Authors can correct any factual errors in the public reviews prior to them being published.

Publication: Reviewed Preprint

- Every preprint reviewed by eLife will be made **available on eLife's website** as a Reviewed Preprint.

- This will include the paper, the eLife assessment, the public reviews and (if provided) the authors' response.

- All Reviewed Preprints **will have a DOI and be citable**.

Author Revision

5 VERSION OF RECORD

4 AUTHOR REVISION

3 PUBLICATION

2 PEER REVIEW

1 SUBMISSION

- Authors can submit a revised version of their manuscript for re-review at **any time following the first peer review**.

- After re-review of the revised manuscript, a **new Reviewed Preprint** will be produced with updated reviews and eLife assessment.

Version of Record

5 VERSION OF RECORD

4 AUTHOR REVISION

3 PUBLICATION

2 PEER REVIEW

1 SUBMISSION

- At **any time after a Reviewed Preprint** is published, authors can declare it the Version of Record (VOR).

- **VOR declaration terminates the update process** and triggers production of a typeset version that is sent for indexing in databases such as PubMed and Web of Science.

- The parent DOI for all versions up to and including the VOR remains consistent.

Biochemistry and Chemical Biology, Cell Biology

Mitochondrial electron transport chain, ceramide and Coenzyme Q are linked in a pathway that drives insulin resistance in skeletal muscle

Alexis Diaz-Vegas, Soren Madsen, Kristen C. Cooke, Luke Carroll, Jasmine X.Y. Khor, Nigel Turner, Xin Ying Lim, Miro A. Astore, Jonathan Morris ... James G. Burchfield ✉ ... show 8 more

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https://doi.org/10.7554/eLife.87340.1

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Published from the original preprint after peer review and assessment by eLife.

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Reviewed preprint posted
3 May 2023

Posted to bioRxiv
11 March 2023 • Go to bioRxiv

Sent for peer review
9 March 2023

Full text   Figures and data   Peer review

- Abstract
- eLife assessment
- Introduction

Abstract

Summary

Insulin resistance (IR) is a complex metabolic disorder that underlies several human diseases, including type 2 diabetes and cardiovascular disease. Despite

determinants of insulin sensitivity. Our findings highlight the mitochondrial Ceramide-CoQ-respiratory chain nexus as a potential foundation of an IR pathway that may also play a critical role in other conditions associated with ceramide accumulation and mitochondrial dysfunction, such as heart failure, cancer, and aging. These insights may have important clinical implications for the development of novel therapeutic strategies for the treatment of IR and related metabolic disorders.

eLife assessment

This **important** study provides exciting first-time evidence linking palmitate-induced insulin resistance to ceramide accumulation within the mitochondrial compartment and subsequent depletion of CoQ, an essential component of mitochondrial respiration. Whereas the results and interpretations are generally **solid**, the mechanistic aspect of the work and conclusions put forth rely heavily on in vitro studies performed in cultured L6 myocytes, which are highly glycolytic and generally not viewed as a good model for studying muscle metabolism and insulin action. Nonetheless, the findings offer intriguing new insights into mechanisms that connect ceramides to both insulin resistance and mitochondrial dysfunction, and are likely to open new avenues of preclinical/clinical research with broad therapeutic implications.

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Introduction

Insulin is the primary hormone responsible for lowering blood glucose, in part, by stimulating glucose transport into muscle and adipose tissue. This is mediated

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University of Massachusetts Medical School, United States of America

Senior Editor

Benoît Kornmann

University of Oxford, United Kingdom

Reviewer #1 (Public Review):

Previous reports suggested an association between ceramide accumulation in skeletal muscle and disruption of insulin signaling and metabolic dysregulation. Mechanistically, however, how intracellular ceramide attenuates insulin action and reduces metabolism is not fully understood. It was suggested that insulin receptor (IR) signaling to PI3-K/AKT is inhibited by elevated intracellular ceramide. However, other studies failed to demonstrate an inhibitory effect of ceramide on PI3K/AKT. More recently, a study was published describing that intracellular localization of diacylglycerols and sphingolipids influences insulin sensitivity and mitochondrial function in human skeletal muscle (PMID: 29415895). In the present study, Diaz-Vegas and colleagues used an in vitro system to investigate this topic further and better understand how intracellular ceramide accumulation causes cellular insulin resistance and metabolic dysregulations in cultured myocytes.

CSH Cold Spring Harbor Laboratory

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Mitochondrial electron transport chain, ceramide and Coenzyme Q are linked in a pathway that drives insulin resistance in skeletal muscle

Alexis Diaz-Vegas, Soren Madsen, Kristen C. Cooke, (ID) Luke Carroll, Jasmine X.Y. Khor, Nigel Turner, Xin Ying Lim, (ID) Miro A. Astore, Jonathan Morris, (ID) Anthony Don, Amanda Garfield, Simona Zarini, (ID) Karin A. Zemski Berry, Andrew Ryan, Bryan C. Bergman, (ID) Joseph T. Brozinick, (ID) David E. James, (ID) James G. Burchfield

doi: https://doi.org/10.1101/2023.03.10.532020

This is a preprint. It has not been certified by a journal but peer reviews are available. [what does this mean?].

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Summary

Insulin resistance (IR) is a complex metabolic disorder that underlies several human diseases, including type 2 diabetes and cardiovascular disease. Despite extensive research, the precise mechanisms underlying IR development remain poorly understood. Here, we provide new insights into the mechanistic connections between cellular alterations associated with IR, including increased ceramides, deficiency of coenzyme Q (CoQ), mitochondrial dysfunction, and oxidative stress. We demonstrate that elevated levels of ceramide in the mitochondria of skeletal muscle cells results in CoQ depletion and loss of mitochondrial respiratory chain components, leading to mitochondrial dysfunction and IR. Further, decreasing mitochondrial ceramide levels

Posted March 12, 2023.

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Subject Area

Cell Biology ▸

Point of View: eLife's new model and its impact on science communication
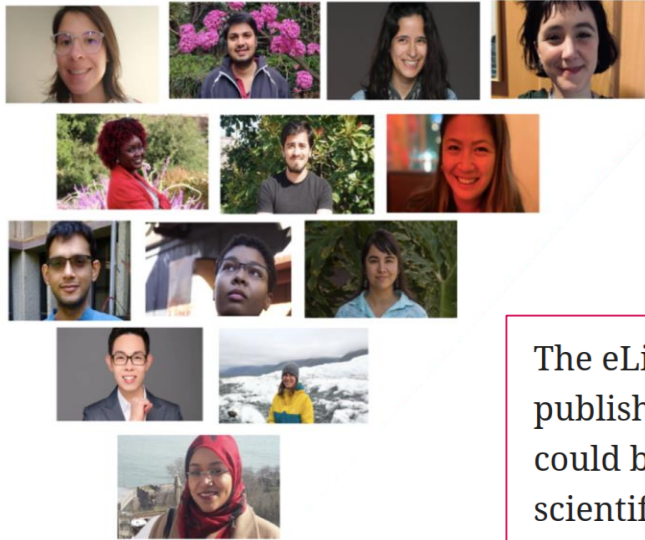
Early career advisory group

Worked with eLife leadership to develop and implement the new model

The eLife Early-Career Advisory Group discusses eLife's new peer review and publishing model, and how the whole process of scientific communication could be improved for the benefit of early-career researchers and the entire scientific community.

Current system: Slow, inefficient, biased ❌

"The scientific community implicitly assume a strong **correlation** between the **quality of a scientific article and the journal** in which it was published.

→ Chase publications in certain journals in order to be competitive when it comes to securing fellowships, grants and jobs"

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Results from **bioRxiv**, **medRxiv**, **Research Square**, **SciELO Preprints**   Sorted by **publication date**

Distinct immune signatures discriminate SARS-CoV-2 vaccine combinations

Núñez NG, Schmid J, Power L, Alberti C, Krishnarajah S, Kreutmair S, Unger S, Blanco S, Konigheim B, Marín C, Onofrio L, Kienzler JC, Costa Pereira Sd, Ingelfinger F, Pasinovich ME, Castelli JM, Vizzotti C, Schaefer M, Villar-Vesga J, Merten CH, Sethi A, Wertheimer T, Lutz M, Vanoaica D, Sotomayor C, Gruppi A, Münz C, Cardozo D, Barbás G, Lopez L, Carreño P, Castro G, Raboy E, Gallego S, Morón G, Cervi L, Acosta Rodriguez EV, Maletto BA, Maccioni M, Becher B, InmunoCovidCba, InViV working group.

2 evaluations • Appears in 1 list • Latest version Sep 6, 2022 • Latest activity Oct 29, 2022

Respiratory mucosal vaccination of peptide-poloxamine-DNA nanoparticles provides complete protection against lethal SARS-CoV-2 challenge

Sun S, Li E, Zhao G, Tang J, Zuo Q, Cai L, Xu C, Sui C, Ou Y, Liu C, Li H, Ding Y, Li C, Lu D, Zhang W, Luo P, Cheng P, Gao Y, Tu C, Pitard B, Rosenecker J, Wang B, Liu Y, Zou Q, Guan S.

1 evaluation • Appears in 1 list • Latest version May 30, 2022 • Latest activity Jun 1, 2022

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6 articles • Last updated Oct 19, 2022

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Enhanced inhibition of influenza virus infection by peptide-noble metal nanoparticle conjugates

Zaid K. Alghrair, David G. Fernig, Bahram Ebrahimi.

0 evaluations • Appears in 1 list • Latest version May 17, 2018   🗑

In Vitro Inactivation of Human Coronavirus by Titania Nanoparticle Coatings and UVC Radiation: Throwing Light on SARS-CoV-2

Svetlana Khaiboullina, Timsy Uppal, Nikhil Dhabarde, Vaidyanathan Ravi Subramanian, Subhash C. Verma.

1 evaluation • Appears in 2 lists • Latest version Aug 25, 2020 • Latest activity Mar 1, 2021   🗑

Graphene oxide/silver nanoparticle ink formulations rapidly inhibit influenza A virus and OC43 coronavirus infection *in vitro*

Meredith J. Crane, Stephen Devine, Amanda M. Jamieson.

1 evaluation • Appears in 2 lists • Latest version Feb 26, 2021 • Latest activity Mar 1, 2021   🗑

Microbial community of recently discovered Auka vent field sheds light on vent biogeography and evolutionary history of thermophily

Daan R. Speth, Feiqiao B. Yu, Stephanie A. Connon, Sujung Lim, John S. Magyar, Manet E. Peña, Stephen R. Quake, Victoria J. Orphan.

0 evaluations • Appears in 1 list • Latest version Aug 2, 2021   🗑

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preLights
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1095 evaluations • 1 list • 37 followers • Latest activity May 3, 2023

PeerRef
PeerRef is a journal-independent open peer review platform for all research.

74 evaluations • 1 list • 14 followers • Latest activity May 2, 2023

GigaScience
GigaScience is an open access, open data, open peer-review journal focusing on 'big data' research from the life and biomedical sciences.

426 evaluations • 1 list • 8 followers • Latest activity May 2, 2023

Peer Community in Evolutionary Biology
Free and transparent preprint peer-review and recommendation by and for researchers in Evolutionary Biology.

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Life Science Editors is a group of former journal editors and grant specialists who are passionate about helping scientists and science reach their full potential.

5 evaluations • 1 list • 4 followers • Latest activity Mar 31, 2023

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74 evaluations • 1 list • 4 followers • Latest activity Mar 29, 2023

Peer Community in Animal Science
Free and transparent preprint peer-review and recommendation by and for researchers in Animal Science.

13 evaluations • 1 list • 18 followers • Latest activity Mar 24, 2023

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40 evaluations • 2 lists • 56 followers • Latest activity Mar 7, 2023

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1295 evaluations • 1 list • 81 followers • Latest activity Feb 27, 2023

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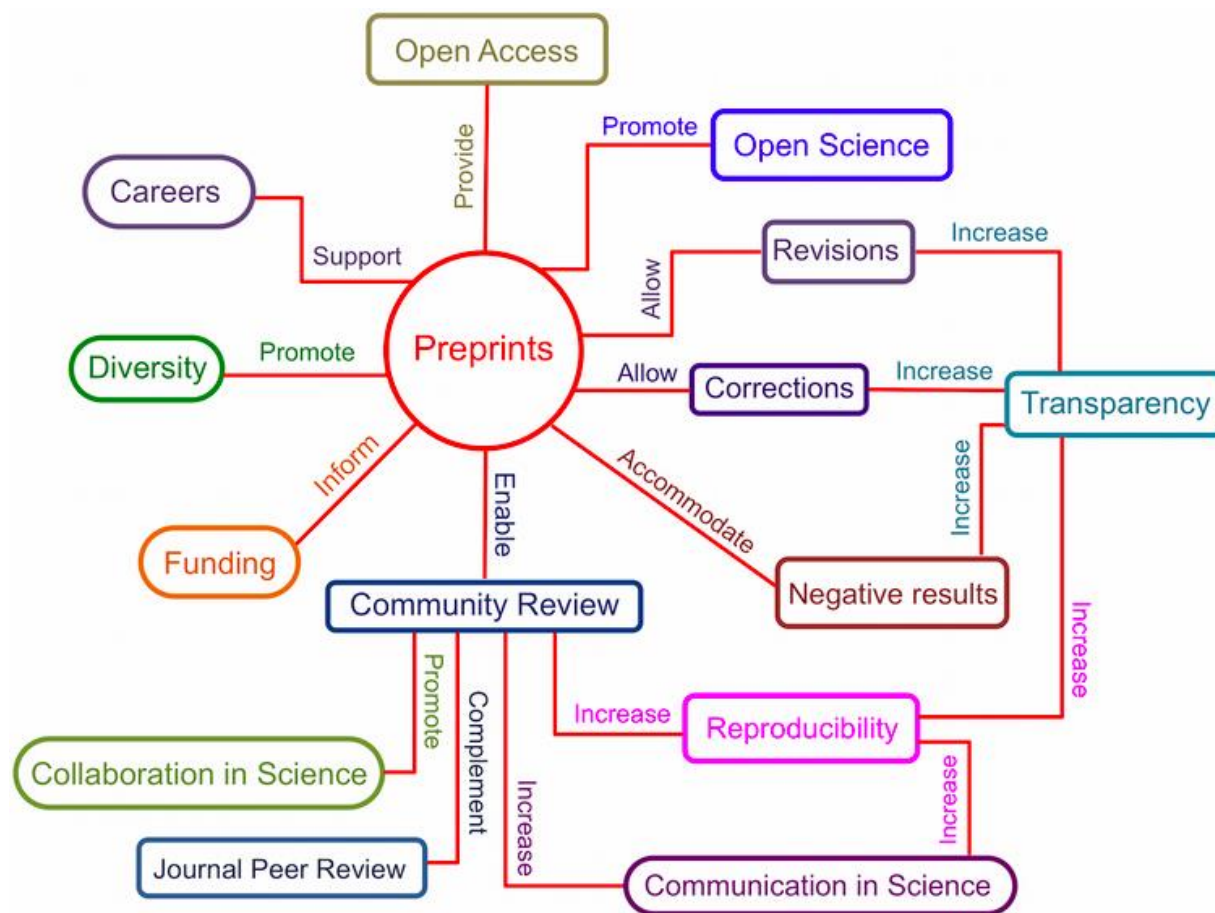
On the value of preprints: An early career researcher perspective https://doi.org/10.1371/journal.pbio.3000151

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We want to support you in contributing high-quality feedback on PREreview. Check out our tips and resources for reviewers.

▼ Examples of good reviewer behavior

- Being respectful of the authors and their work.
- Being humble and aware of how you would like to receive feedback from others.
- Giving clear, constructive, and actionable feedback that can improve the preprint.

▼ Examples of helpful review sections

1. Begin with a summary of the research and how it contributes to the field of study.
2. Next, share your positive feedback, including the approach's strengths and results.
3. Finally, share major and minor concerns and related clear, constructive, and actionable suggestions for addressing them.

Write a short summary of the research's main findings and how this work has moved the field forward.

Major issues

- List significant concerns about the research, if there are any.

Minor issues

- List concerns that would improve the overall flow or clarity but are not critical to the understanding and conclusions of the research.

PREREVIEW

How would you like to start your PREreview?

○ **With prompts**

We'll ask questions about the preprint to create a structured review.

○ **With a template**

We'll offer a basic template, but you can review it your way.

or

○ **I've already written the review**

Continue

Does the introduction explain the objective of the research presented in the preprint?

○ Yes

It clearly explains the objective.

○ Partly

It mentions, but doesn't fully explain, the objective.

○ No

It doesn't mention or explain the objective.

or

○ I don't know

Save and continue

Are the methods well-suited for this research?

○ **Highly appropriate**

They follow best practices throughout the research. They are rigorously executed and provide a robust foundation for drawing valid conclusions.

○ **Somewhat appropriate**

They follow best practices through most, but not all, of the research. They are well executed and provide a good foundation for drawing valid conclusions.

○ **Neither appropriate nor inappropriate**

They do not always follow best practices but give a reasonable basis for answering the research question.

○ **Somewhat inappropriate**

They have certain flaws or deviations from best practices that limit the value of the information and insights they share.

○ **Highly inappropriate**

They are fundamentally flawed, invalid, or inconsistent with best practices.

or

○ I don't know

Are the data presentations, including visualizations, well-suited to represent the data?

○ **Highly appropriate and clear**

They thoroughly follow accessibility best practices and effectively communicate the results and key patterns in the data, making it very easy to comprehend or interpret the data.

○ **Somewhat appropriate and clear**

They follow accessibility best practices and well communicate the results and main patterns in the data, making it easy to comprehend or interpret the data effectively.

○ **Neither appropriate and clear nor inappropriate and unclear**

They follow some elements of accessibility best practices and communicate the results and patterns. However, the presentations chosen are not the best or clearest ones to use for this kind of data.

○ **Somewhat inappropriate or unclear**

They don't follow accessibility best practices, and contain minor inaccuracies, ambiguities, or omissions, making it slightly challenging to comprehend or interpret the data effectively.

○ **Highly inappropriate or unclear**

They present major accessibility barriers, and lack proper labeling, appropriate scales, or relevant contextual information, making it very challenging to comprehend or interpret the data effectively.

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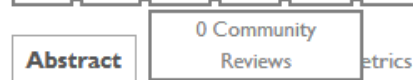🔔 Follow this preprint ◉ Previous   Next ◉

Identification of bacteria involved in non-sulfate based hydrogen sulfide production in an aquaculture environment

Posted August 13, 2024.

ⓘ Alexandre Minh Nguyen-tiet, ⓘ Fernando Puente-Sanchez, ⓘ Stefan Bertilsson, ⓘ Sanni L Aalto

doi: https://doi.org/10.1101/2024.04.12.589155

This article is a preprint and has not been certified by peer review [what does this mean?].

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0 Community Reviews

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Abstract

Unwanted microbiological production of hydrogen sulfide (H2S) is a major challenge in engineered systems, such as sewage treatment plants, landfills, and aquaculture

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Subject Area

Microbiology