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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



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.



The new publishing model at eLife



- 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



- 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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Empowering Early Career Researchers to Improve Science

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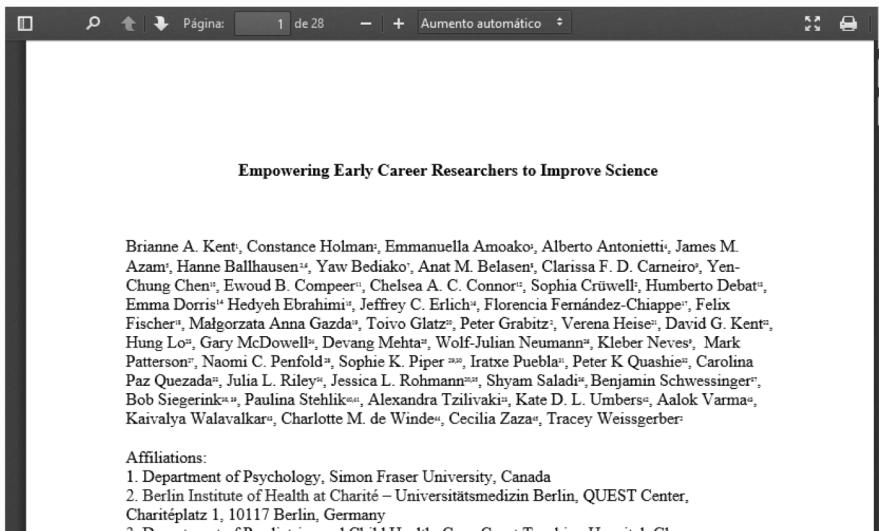
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AUTHOR ASSERTIONS

Conflict of Interest: Yes ▾

Public Data: Not applicable ▾

Preregistration: Not applicable ▾



The screenshot shows the OSF Preprints interface for a document titled "Empowering Early Career Researchers to Improve Science". The document is a PDF with 28 pages, currently on page 1. The interface includes standard document controls like zoom and orientation, and a sidebar with a "Download" button and social sharing links (Twitter, Facebook, LinkedIn, Email). The main content area displays the first few pages of the document.

Empowering Early Career Researchers to Improve Science

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

Affiliations:

1. Department of Psychology, Simon Fraser University, Canada
2. Berlin Institute of Health at Charité – Universitätsmedizin Berlin, QUEST Center, Charitéplatz 1, 10117 Berlin, Germany

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 ...

[See more](#)**Supplemental Materials**osf.io/ad57e/ ▾**Preprint DOI**[10.31219/osf.io/p5evw](https://doi.org/10.31219/osf.io/p5evw)

Tips & Tricks for ECR Initiatives Working to Improve Science

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 Stehlík, 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

Date created: 2021-04-23 03:33 AM | Last Updated: 2021-06-28 03:56 AM

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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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 Crûwell, [...], Tracey L. Weissgerber  [view all]

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Abstract

Introduction

Recommendations for ECRs involved in research improvement activities

Recommendations for stakeholders

Conclusions

Supporting information

Acknowledgments

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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.

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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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Abstract

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Introduction

Abstract

Summary

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

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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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Michael Czech

University of Massachusetts Medical School, United States of America

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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.

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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, Luke Carroll, Jasmine X.Y. Khor, Nigel Turner, Xin Ying Lim, Miro A. Astore, Jonathan Morris, Anthony Don, Amanda Garfield, Simona Zarini, Karin A. Zemski Berry, Andrew Ryan, Bryan C. Bergman, Joseph T. Brozinick, David E. James, James G. Burchfield

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

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Abstract

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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

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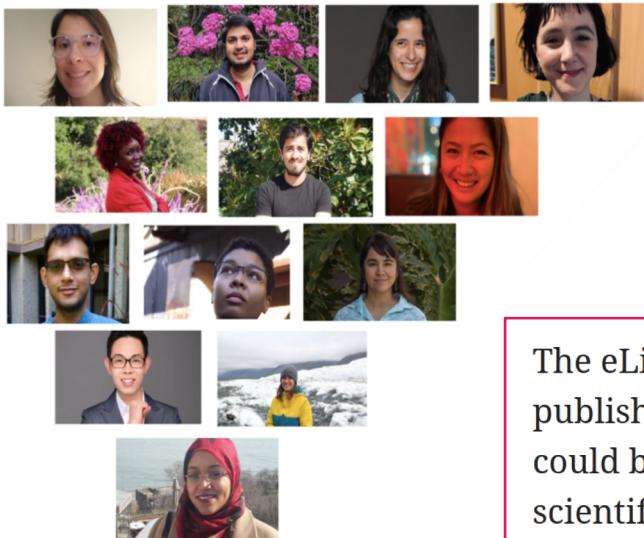
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Point of View: eLife's new model and its impact on science communication



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.

<https://doi.org/10.7554/eLife.84816>

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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Distinct immune signatures discriminate SARS-CoV-2 vaccine combinations

Núñez NG, Schmid J, Power L, Alberti C, Krishnarajah S, Kreutmaier 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, Macchioni 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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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 Khaiaboullina, 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. Speeth, 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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74 evaluations • 1 list • 4 followers • Latest activity Mar 29, 2023



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