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Championing Open Research: Lessons from the Lab

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Championing Open Research: Lessons from the Lab

Singapore Open Research Awards 2024 Winner Presentation

Guillaume Thibault School of Biological Sciences thibaultlab.com

12th November 2024



My Personal Motivation for Open Research

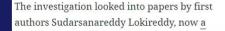
Whistleblower – alleged research misconduct was anonymously reported to NTU

pubpeer.com

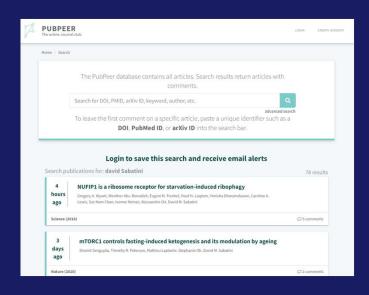
Declaration on Research
Assessment

Singapore investigation leads to two retractions, two more on the way

Authors have retracted papers from Cell Metabolism and the Journal of Biological Chemistry after an investigation in Singapore found issues, including falsified data. The investigation is ongoing, and two additional retractions, along with two corrections, are on the horizon.









Open Research & Quality of Data Impact and Recognition

1. Building a reputation in your field



2. Increased visibility



3. Recognition by funding agencies and for promotions?



The Hidden Work Behind Transparent Research

Ready Access to Underlying Data

Replication Data for Journal Paper

Data availability

The source data for this study are available at the Dataverse Project doi.org/10.21979/N9/GEPEAG and as a Source data file provided with this paper. All RNA sequencing data is available at the Gene Expression Omnibus accession number GSE182981. Source data are provided with this paper.

Replication Data for: The unfolded protein response reverses the effects of glucose on lifespan in chemically-sterilized C. elegans

Thibault, Guillaume; Beaudoin-Chabot, Caroline; Wang, Lei; Celik, Cenk; Khalid, Aishah Abdul; Thalappilly, Subhash; Koh, Jhee Hong; Xu, Shlyi; Lim, Venus Wen Xuan; Low, Ann Don, 2022, "Replication Data for: The unfolded protein response reverses the effects of glucose on lifespan in chemically-sterilized C. elegans", htt ps://doi.org/10.21979/N9/GEPEAG, DR-NTU (Data), V1, UNF:6:bDcV8UXFkGMeff3EFRkBYA== [fileUNF]

Contact Owner

Dataset Metrics 3
685 Views 3

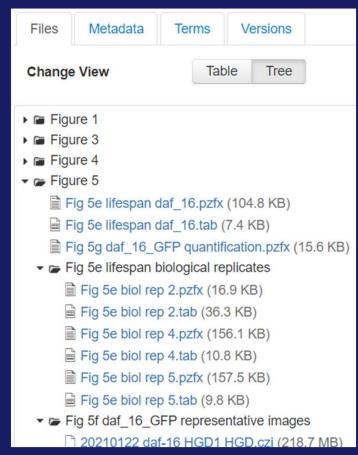
Cite Dataset

Learn about Data Citation Standards

The Hidden Work Behind Transparent Research

Ready Access to Underlying Data

2. Replication Data for Lab Publications



Beaudoin-Chabot et al., Nat. Commun (2022)

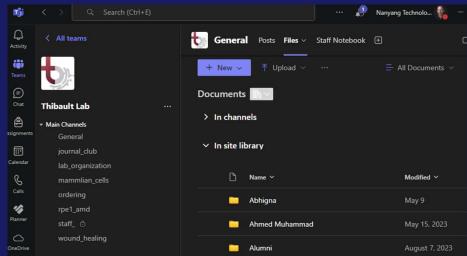
The Hidden Work Behind Transparent Research

Ready Access to Underlying Data

2. Replication Data for Lab Publications

- 3. Storage of Data Must be Well Organized
 - a. Lab Guidelines
 - b. Microsoft Teams Thibault Lab Teams
 - SharePoint



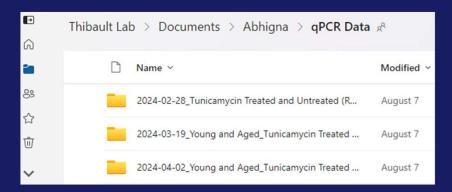


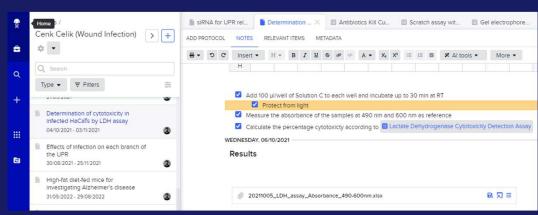
Building a Culture of Openness and Quality in My Lab

 Data Management on SharePoint with standardized naming and storage

Use of Benchling for detailed experiment records

Lab-wide policies that all members follow, creating a cohesive, transparent workflow





Challenges and the Case for Recognizing Open Research Efforts

 How can open research practices be better recognized in journal quality metrics, like impact factor?

 Should tenure and promotion criteria place greater emphasis on transparency and reproducibility?

 Can we develop a list of Tier 1 journals that actively encourage and implement open research policies?

Acknowledgement



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Librarian, Open Science and Research Services
Nanyang Technological University



Yasmin Ally
Librarian, Open Science and Research Services
Nanyang Technological University

Jury Panel – Singapore Open Research Awards 2024



Linda Chen
Director, Academic and Research Compliance &
National University of Singapore



A/P Navin Kumar Verma Associate Professor, LKCM Nanyang Technological University



Yeo Pin Pin Head, Research Services Singapore Management University Libraries

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NRF MSG 2023



Open Research is a Choice for Quality and Impact

Transparent science is the foundation of **trust** within the research community and society as a whole

