

# PIDs + Open Source

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# CRedit & PubSweet

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# CRedit Overview

Term	Definition
<b>Conceptualization</b>	<i>Ideas; formulation or evolution of overarching research goals and aims.</i>
<b>Methodology</b>	<i>Development or design of methodology; creation of models.</i>
<b>Software</b>	<i>Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.</i>
<b>Validation</b>	<i>Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.</i>
<b>Formal Analysis</b>	<i>Application of statistical, mathematical, computational, or other formal techniques to analyse or synthesize study data.</i>
<b>Investigation</b>	<i>Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.</i>
<b>Resources</b>	<i>Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.</i>
<b>Data Curation</b>	<i>Management activities to annotate (produce metadata), scrub data and maintain research data (including software code, where it is necessary for interpreting the data itself) for initial use and later re-use.</i>
<b>Writing – Original Draft</b>	<i>Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).</i>
<b>Writing – Review &amp; Editing</b>	<i>Preparation, creation and/or presentation of the published work by those from the original research group, specifically critical review, commentary or revision – including pre- or post-publication stages.</i>
<b>Visualization</b>	<i>Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.</i>
<b>Supervision</b>	<i>Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.</i>
<b>Project Administration</b>	<i>Management and coordination responsibility for the research activity planning and execution.</i>
<b>Funding</b>	<i>Acquisition of the financial support for the project leading to this publication.</i>

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## CRedit

CRedit is high-level taxonomy, including 14 roles, that can be used to represent the roles typically played by contributors to scientific scholarly output. The roles describe each contributor's specific contribution to the scholarly output.

### Background

CRedit grew from a practical realization that bibliographic conventions for describing and listing authors on scholarly outputs are increasingly outdated and fail to represent the range of contributions that researchers make to published output.

Furthermore, there is growing interest among researchers, funding agencies, academic institutions, editors, and publishers in increasing both the transparency and accessibility of research contributions.

CRedit is in adoption by dozens of publishing organizations across hundreds of publications

**BMJ** Journals

 **PLOS**

 **ELSEVIER**

**ACTA  
SCIENTIAE**

 eLIFE

**F1000**

 University  
of Glasgow

**CellPress**

**WormBase**



# PubSweet

*The platform to build platforms*

Libero Reviewer (eLife)

Hindawi's Phenom

EBI (EPMC)

Editoria

Simple J

Micropublications.org (Wormbase)

Physiome Journal (Digital Science)

Awards (Digital Science)



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# Integration point: microPublications Workflow

The screenshot shows the 'Submit your article' page in the microPublications system. The user is logged in as 'McG O'Connell'. The page has a navigation bar with 'Dashboard' and 'Article' links. The main content area is titled 'Submit your article' and includes instructions: 'Enter author names in the order they will appear in the article: corresponding, first, second, etc.' and 'Name \* Must choose credit to assign to the author'. The first author, 'Alison', is listed. A dropdown menu for 'Author contribution (choose all that apply)' is open, showing options: 'Conceptualization', 'Data curation' (highlighted), 'Formal analysis', 'Funding acquisition', 'Investigation', 'Methodology', 'Project administration', and 'Resources'. A 'REMOVE' button is visible next to the dropdown. Below the author information, there are fields for 'Affiliations', 'Email address \*', 'Co-Authors', 'Laboratory \*', 'Funding \*', 'Title \*' (with a rich text editor), and 'Image \*'. An 'ADD ANOTHER' button is located between the first and second author sections.

# Integration point: microPublications Workflow

microPublication Dashboard Article

## Submit your article

Enter author names in the order they will appear in the article: corresponding, first, second, etc.

Name \*  
Alison McGonagle-O'Connell Formal analysis x Data curation x Funding acquisition x x v ?

Affiliations Emerson College

Email address \*  
alison@alisonmcg.com

Co-Authors Credit is required for all authors

Simon Porter Author contribution (choose all that apply) REMOVE

- Conceptualization
- Data curation
- Formal analysis
- Funding acquisition
- Investigation
- Methodology
- Project administration
- Resources

ADD ANOTHER

Laboratory \*  
Enter your PI's registered WormBase Laboratory

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Please state the sources of your funding

Title \*  
Please enter the title of your manuscript

Image \*  
Drop an image here to replace current

Name \*  
Alison McGonagle-O'Connell Formal analysis x Data curation x Funding acquisition x v

Affiliations Emerson College

Email address \*  
alison@alisonmcg.com

Co-Authors

Simon Porter Data curation x Investigation x Software x v ?

Affiliations University of Auckland

Laboratory \*  
12456

Funding \*  
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Title \*  
Please enter the title of your manuscript



# Integration point: microPublications Workflow

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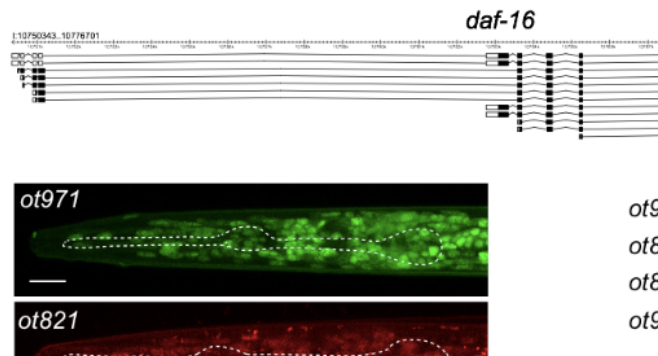
## A panel of fluorophore-tagged *daf-16* alleles

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PDF



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### Author Contributions

Ulkar Aghayeva: Investigation, Writing - review and editing

Abhishek Bhattacharya: Investigation

Oliver Hobert: Conceptualization, Funding acquisition, Project administration, Supervision, Writing - original draft, Writing - review and editing.

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### Reviewed By

Patrick Hu

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# Conclusion

- PIDs and OS go together
- But we need you
  
- Questions
- Sincere thanks for your time!