

CRediT

Contributor Roles Taxonomy

저자 역할 구분 및 표시 기준

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CRediT?

CRedit

Contributor Roles Taxonomy

- A controlled vocabulary (taxonomy) of contributor roles
- To describe the typical “contributions” to scholarly published output
(for biomedical and science more broadly)
- Open standards
- <http://casrai.org/CRedit>

저자 역할 구분 및 표시 기준 제시

- Who are eligible to be authors?
- Am I eligible as an author?

- Attribution
- Credit
- Accountability

Why CRediT now?

- Transparency and accessibility of research contributions
- Publishers require contribution disclosures upon article submission (structured or free-text form)
- Funders are developing more scientifically rigorous ways to track the outputs and impact of their research investments.

Initial development of CRediT

- May 2012
- Wellcome Trust, Harvard University, MIT, Digital Science
- Initially with a group of mainly biomedical journal editors and members of the ICMJE
- Facilitated by CASRAI and NISO

14 Contributor Roles/Responsibilities

Contributor Roles

1. Conceptualization

Ideas; formulation or evolution of overarching research goals and aims.

2. Data curation

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.

Contributor Roles

3. Formal analysis

Application of statistical, mathematical, computational, or other formal techniques to analyse or synthesize study data.

4. Funding acquisition

Acquisition of the financial support for the project leading to this publication.

Contributor Roles

5. Investigation

Conducting a research and investigation process, specifically performing the experiments, or data/evidence collection.

6. Methodology

Development or design of methodology; creation of models.

Contributor Roles

7. Project administration

Management and coordination responsibility for the research activity planning and execution.

8. Resources

Provision of study materials, reagents, materials, patients, laboratory samples, animals, instrumentation, computing resources, or other analysis tools.

Contributor Roles

9. Software

Programming, software development; designing computer programs; implementation of the computer code and supporting algorithms; testing of existing code components.

10. Supervision

Oversight and leadership responsibility for the research activity planning and execution, including mentorship external to the core team.

Contributor Roles

11. Validation

Verification, whether as a part of the activity or separate, of the overall replication/reproducibility of results/experiments and other research outputs.

12. Visualization

Preparation, creation and/or presentation of the published work, specifically visualization/data presentation.

Contributor Roles

13. Writing – original draft

Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).

14. Writing – review & editing

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.

Open-Contributorship-Badges



CRediT Use Cases

optimal HLA-C*03:04-restricted epitopes. (C) The wild-type peptide RALGPGATL stabilized HLA-C*03:04 expression on 721.221-ICP47-C*03:04 cells significantly better than the variant epitope RALGPAATL at non-saturating concentrations of 1 μM (G [mean 4.24 ± 0.46 SD] to A [mean 2.72 ± 0.81 SD], $p = 0.006$) and 0.1 μM (G [mean 2.26 ± 0.39 SD] to A [mean 1.29 ± 0.19 SD], $p = 0.008$) as measured by paired, two-tailed t -test. HLA-C*03:04 surface expression was determined flow cytometrically by staining with the anti-pan-HLA antibody W6/32 ($n = 3$).

(TIF)

S1 Text. Details of the computational modeling.

(PDF)

Acknowledgments

We thank Todd Suscovich (Ragon Institute of MGH, MIT and Harvard) for the pMIP-HLA-C*03:04 transfer vector and Emmanuel J. H. J. Wiertz (Department of Medical Microbiology, University Medical Center, Utrecht, The Netherlands) for the 721.221-ICP47 cell line.

Author Contributions

~~Conceived and designed the experiments: AH CJC WGB NvT AC JC RZ MA. Performed the experiments: AH CJC WGB SK JC. Analyzed the data: JC CJC CK AH CT WGB SK MA AC. Contributed reagents/materials/analysis tools: JS MC PH CK TP DE BW GA. Wrote the first draft of the manuscript: AH MA. Contributed to the writing of the manuscript: AH CJC CT JC MA. Agree with the manuscript's results and conclusions: AH CT CJC WGB JC NvT JM MJ SK AC CK JS DE GA BW PG MC PH TP RZ TN MA. Enrolled patients: JM MJ CT PG TN. All authors have read, and confirm that they meet, ICMJE criteria for authorship.~~

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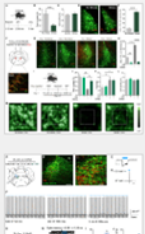
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Neuron

Volume 87, Issue 3, 5 August 2015, Pages 605–620

Article

CRH Engagement of the Locus Coeruleus Noradrenergic System Mediates Stress-Induced Anxiety

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Author Contributions

Conceptualization, J.G.M. and M.R.B.; Methodology, J.G.M., R.A., E.R.S., C.P.F., and M.R.B.; Investigation, J.G.M., C.P.F., R.A., E.R.S., D.Y.H., and A.J.N.; Writing – Original Draft, Review & Editing, J.G.M. and M.R.B.; Funding acquisition, M.R.B.; Supervision, C.P.F.; Project administration, M.R.B.

[http://www.cell.com/neuron/abstract/S0896-6273\(15\)00606-6](http://www.cell.com/neuron/abstract/S0896-6273(15)00606-6)



Reading: A Web-based modeling tool for the SEMAT Essence theory of software engineering

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Software Metapapers

A Web-based modeling tool for the SEMAT Essence theory of software engineering

Authors: Daniel Graziotin, Pekka Abrahamsson [Author Contributions](#)

Abstract

As opposed to more mature subjects, software engineering lacks general theories that establish its foundations as a discipline. The Essence Theory of software engineering (Essence) has been proposed by the Software Engineering Methods

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Daniel Graziotin	Daniel Graziotin	Daniel Graziotin Pekka Abrahamsson	Daniel Graziotin
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Materials and methods

Availability and requirements

Availability ...

Abbreviations

Competing interests

Authors' contributions

Acknowledgements

References

Technical Note **Highly accessed** **Open Access**

GWATCH: a web platform for automated gene association discovery analysis

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Authors' contributions

ASv, SM, NC, PG, MR, PD, ASH, TKO and SJO developed GWATCH. LG, JT, SH, HHD, ES and SJO performed the original GWAS studies. SD, EG, DAJ, MVN, RH and ZLB contributed new epidemiological data from their AIDS cohorts. ASv, SM, NC and SJO wrote the manuscript. All authors read and approved the final manuscript.

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Technical Note

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GWATCH: a web platform for automated gene association discovery analysis

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Kenall, Amye. Putting credit back into the hands of researchers.
28 Sep 2015.

<http://blogs.biomedcentral.com/gigablog/2015/09/28/putting-credit-hands-researchers/>

Aries systems, EM 13.0

- EM's initial implementation of CRedit
 - The ability to attribute one or more 'Contributor Roles' to each Author of a submission
 - The ability to identify the degree to which a particular contributor was involved
"Lead", "Supporting", "Equal"
 - The ability to configure the collection of Contributor Roles per Article Type
"Optional" or "Required"

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