




CRedit


Contributor Roles Taxonomy

저자 역할 구분 및 표시 기준

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The image features a white background with decorative geometric shapes in the corners. The top-left corner is filled with a cluster of overlapping triangles in shades of blue, orange, red, and light blue. The bottom-right corner features a smaller cluster of overlapping triangles in shades of red, orange, light blue, and green. The main text is centered in the lower half of the page.

CRediT: Contributor Roles Taxonomy

CRedit: What is it?

- 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



CRedit: What is it for?

- 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.



CReditT: initial development history

- 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



- 2014
 - Project CRediT working group finalizes the 14 terms & descriptions (Taxonomy)
- 2015
 - Published to the CASRAI dictionary
 - Endorsed by major publishers
 - Encouraged authors to use CRediT when they submit papers, instead of traditional (free format) author role and responsibility statements



- 2016 and beyond
 - CRediT is being incorporated into Open Badges
 - E-submission systems include CRediT
Aries Editorial Manager 13.0
 - ORCID is building CRediT into its registry
 - JATS is looking to integrate CRediT



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14 Contributor Roles/Responsibilities

Contributor Roles/Responsibilities

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/Responsibilities

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/Responsibilities

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/Responsibilities

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/Responsibilities

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/Responsibilities

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/Responsibilities

13. Writing – original draft

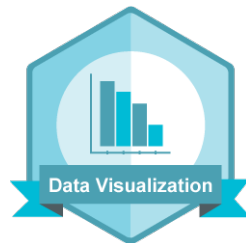
Preparation, creation and/or presentation of the published work, specifically writing the initial draft (including substantive translation).

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



T1 - Conceptualization

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



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CRediT: Use Cases/Implementations

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 μ m (G [mean 4.24 ± 0.46 SD] to A [mean 2.72 ± 0.81 SD], $p = 0.006$) and 0.1 μ M (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.

Dec. 2015

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Projected Impact of Mexico's Sugar-Sweetened Beverage Tax Policy on Diabetes and Cardiovascular Disease: A Modeling Study

Luz Maria Sánchez-Romero, Joanne Penko, Pamela G. Coxson, Alicia Fernández, Antoinette Mason, Andrew E. Moran, ...

Published: November 1, 2016

Article



- Abstract
- Author Summary
- Introduction
- Methods
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- Discussion
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- Author Contributions**
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Similar views or positions of the National Institutes of Health, the University of California, or the US Preventive Services Task Force (of which K. B.-D. is the chair).

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Clinicopathologic Impacts of Poorly Differentiated Cluster-Based Grading System in Colorectal Carcinoma

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All authors declare no conflicts of interest.

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Genotype and Phenotype Analysis in Pediatric Patients with Cystinuria

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Genotype and Phenotype Analysis in Pediatric Patients with Cystinuria

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cited.

AA genotypes. A big limitation of this study was the small number of subjects. Therefore, a large nationwide multicenter study is recommended.

Notes

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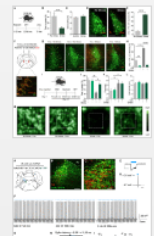
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Article

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

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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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GWATCH: a web platform for automated gene association discovery analysis

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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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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.

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GWATCH: a web platform for automated gene association discovery analysis

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Abstract



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Implementation of CRediT into e-submission system

- Aries Editorial Manager 13.0
 - 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”

CRedit Markup Example

```
<contrib>
  <name name-style="western">
    <surname>Jang</surname>
    <given-names>Young Shil</given-names>
  </name>
  <role content-type="CRedit Taxonomy">Conceptualization</role>
  <role content-type="CRedit Taxonomy">Data curation</role>
  <role content-type="CRedit Taxonomy">Investigation</role>
  <role content-type="CRedit Taxonomy">Writing - original draft</role>
  <role content-type="CRedit Taxonomy">Writing - review & editing</role>
  <ORCID authenticated="true">http://orcid.org/0000-0001-0001-0001</ORCID>
  <xref ref-type="aff" rid="A1">1</xref>
</contrib>
```



JATS v1.1d3 Contributor tagging: as-is

```
<contrib contrib-type="author">
  <contrib-id contrib-id-type="orcid" authenticated="true">http://orcid.org/0000-0001-0001-0001</contrib-id>
  <name>
    <surname>Jang</surname>
    <given-names>Young Shil</given-names>
  </name>
  <xref ref-type="aff" rid="A1">1</xref>
</contrib>
```


The image features a white background with decorative geometric shapes in the corners. The top-left corner is filled with a cluster of overlapping triangles in shades of blue, orange, red, and pink. The bottom-right corner features a smaller cluster of triangles in shades of red, orange, and light blue.

Benefits and Expectations

Benefits

- CRediT을 사용하는 것이
기존 방식 (Free format author contribution statements) 보다
 - Easy to use
 - Clear (Concise & Precise)
 - Standardization
 - Useful
 - Visual (Open badges)



Expectations

- Facilitate authorship/contributorship disclosure processes and policies
- Identify good practices for tracking contributions to the components of scholarly published output
- Minimize authorship disputes
- Enable appropriate recognition for the different contributions in multi-authored works across all aspects of the research being reported (including data curation, statistical analysis, etc.)

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The image features a white background with decorative geometric shapes in the corners. The top-left corner is filled with a cluster of colorful triangles in shades of blue, orange, red, and pink. The bottom-right corner also features a cluster of colorful triangles in shades of red, orange, and light blue.

Thank you!

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