ORCID US Community presents:
Structured Recognition via Rescognito & ORCID

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LYRASIS

Structured Recognition via Rescognito and ORCID

10/10/2019

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Agenda

- Introduction – Improving evaluation of research outputs using PIDs - (10 mins)
- Audience Participation – Hands-on experience (10 mins)
- Presentation – ORCID, DOI, ROR, CRediT for Peer-to-Peer and Curated/Institutional Recognition (10 mins)
- Demo (10 mins)
- Presentation – Practical use cases for libraries (10 mins)
- Questions (As long as you like!.,)

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Annual Global Research Investment

$2 trillion per year[1] invested in research

1. https://www.nsf.gov/statistics/2018/nsb20181/report/sections/research-and-development-u-s-trends-and-international-comparisons/cross-national-comparisons-of-r-d-performance

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Research/Researcher Evaluation Depends on Publications and Citations

- “Mechanical problems” of identification and attribution
- Counterproductive incentives
- Overlook contributions

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“Mechanical problems” of identification and attribution

Morgun A, Shulzhenko N, Unterkircher CS, Diniz RVZ, Pereira AB, Silva MS, et al. Pre- and post-transplant anti-myosin and anti–heat shock protein antibodies and cardiac transplant outcome. The Journal of Heart and Lung Transplantation. 2004;23(2):204–9.

- Text string identification of contributors - ambiguity
- Contribution implied from format rather than explicit
- Imprecision (e.g.10 contributors cite 10 contributors)
- No citation reason or weighting
- No contribution labeling…

Contributions

Y.Z. and J.F. conceived and initiated the project; Y.Z. designed, performed and quantified most experiments, including scRNA-seq data analysis and interpretation; X.X. maintained cell culture, participated in experiments and independently repeated experiments; Y.S. helped to design experiments; S.W. developed the TCF/Lef:H2B-GFP reporter line and helped with scRNA-seq data analysis; Z.L. fabricated silicon moulds; S.N.E. helped with hPGCLC-related experiments; J.M.M., J.N.L. and V.M.W. provided the T-mNeonGreen reporter line; Y.Z., D.L.G. and J.F. wrote the manuscript; J.F. supervised the study. All authors edited and approved the manuscript.

- Contributor acknowledgement sections often entirely missing
- Initials and text string identification
- Inconsistent display and not structured
- Idiosyncratic taxonomies and implementations
- Not interoperable/reportable

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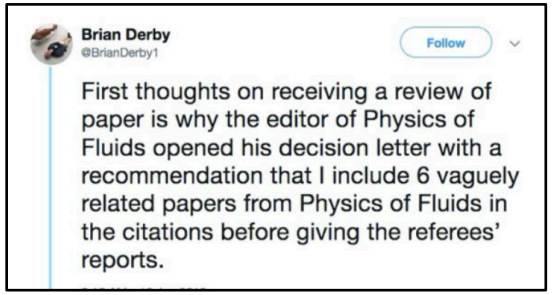
Counterproductive incentives

- Research “productivity” is equated to generation of publications and citations
- Rational response is to produce more publications and citations
  - “Do research to get grants not …. get grants to do research”
- Tricks of the trade
  - Salami slicing
  - P hacking
  - Harking
  - Overselling of correlations and effects
  - Focus on self-promotion rather than rigor
- Citation optimization
  - Journal tricks
  - Reciprocal
  - Citation “packing”



- The result? “Crisis” – scientific process undermined in public eye and research funding becomes vulnerable

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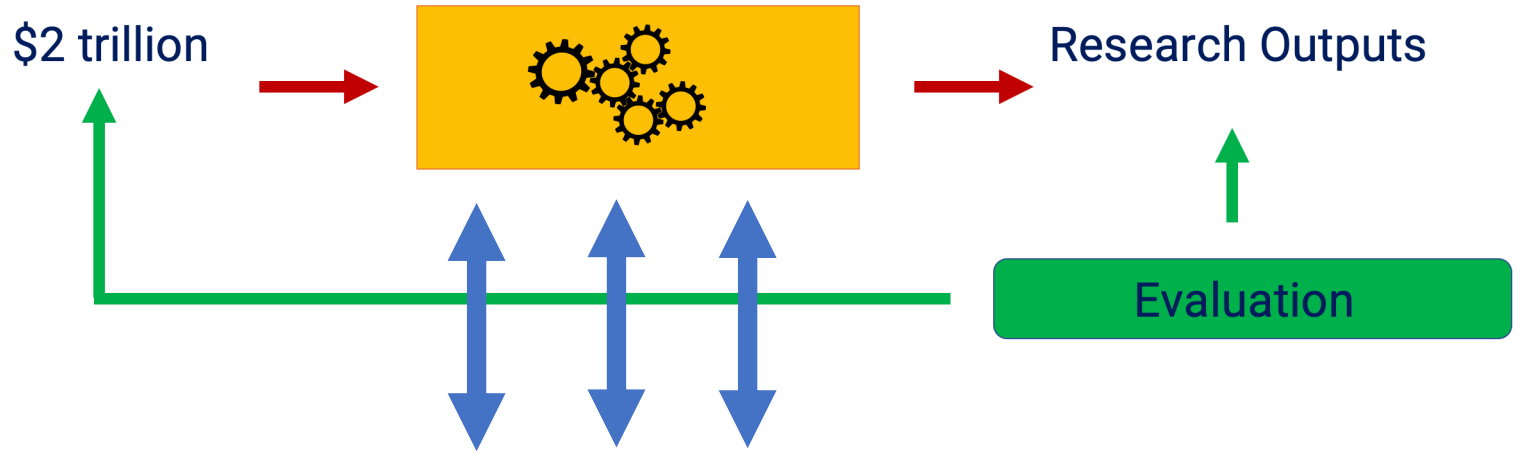
Overlooked contributions



- Research lifecycle generates many milestones and outputs that can be usefully recognized:
  "*Research is not article shaped*" – Alison Mudditt, CEO PLOS

- DORA (Declaration of Research Assessment): "*There is a pressing need to improve the ways in which the output of scientific research is evaluated by funding agencies, academic institutions, and other parties.*"
- Stephen Curry, Imperial College: "*Researchers deserve to be judged on the basis of what they have done, not simply where they have published — and to be given credit for the many contributions they make above and beyond the publication of research papers.*"

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So…

….article citations indicate a possible connection between any of number of ambiguously-identified authors …..

….. to an unspecified number of ambiguously-identified authors in the cited manuscript….

…. for an unspecified reason….

…. in recognition of unspecified contributions….

…. for motivations that are not transparent….

…. while totally excluding non-manuscript related contributions….

On this basis we generate and use derivative measures of “impact” that are reported as accurate to three decimal places…

….. and then use the result to evaluate careers of millions of researchers and direct trillions of dollars in annual investment.

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What Would a Better, PID-enabled System Look Like?

- Signal – Produces a more useful “signal” than current system
- Open – Free for individual researchers
- Transparent – Direct recognition not mediated through indirect attribution and opaque measures of impact
- Democratic– Anyone can participate
- Granular – Broad range of *factual* contributions recognized
- Attributable – Assertions that are verifiable
- Standards-based means Interoperable

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What is Rescognito?

A Platform for Recognition:

Peer-to-Peer Recognition

Institutional – “Curated” - Recognition

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Audience participation!

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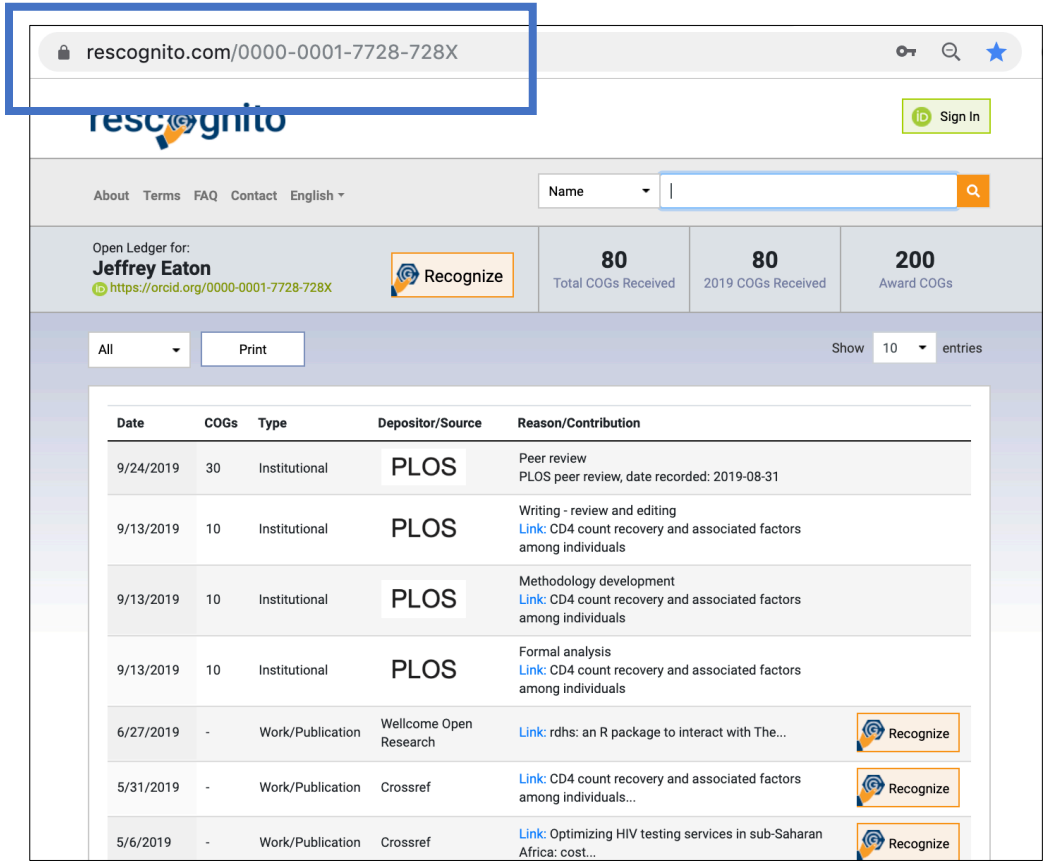
The Rescognito Open Ledger

A structured, attributable, granular transcript of Recognition:



- Carrots, not sticks
- Easy and convenient
- Fair, open and transparent
- Recognizes a *full* range of activities (code, data curation, mentoring etc.)
  "Research is not article shaped"
- Granular and accountable
- Amplitude for better quality signaling
- Standards-based
- Build on what's already there

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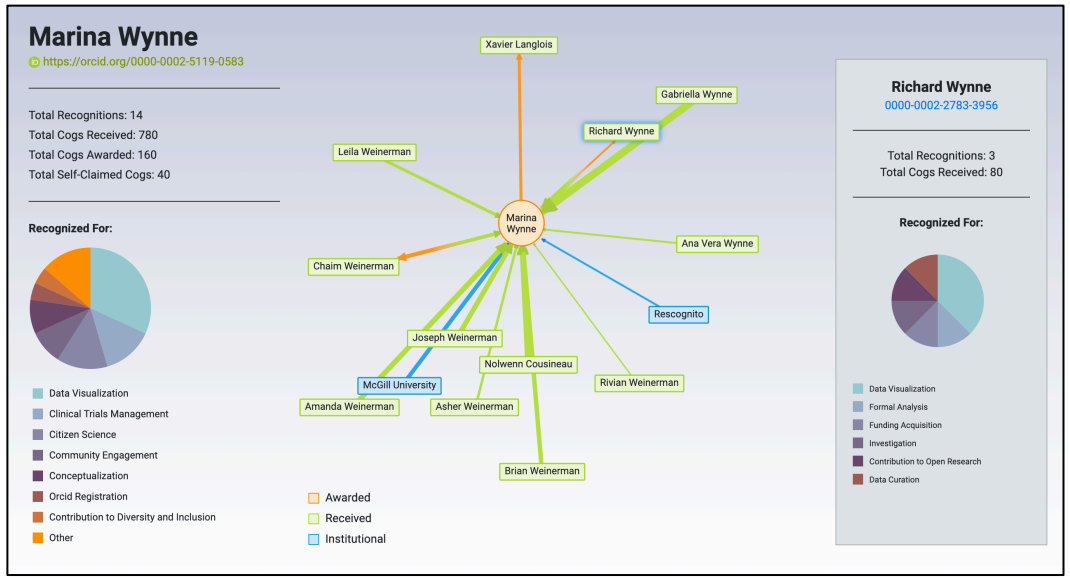
Rescognito Open Ledger:



What can be recognized?

1. Author contributions – CRediT
2. Professional society service
3. Ad hoc recognition
4. Peer review
5. Open Science Badges
6. Much more

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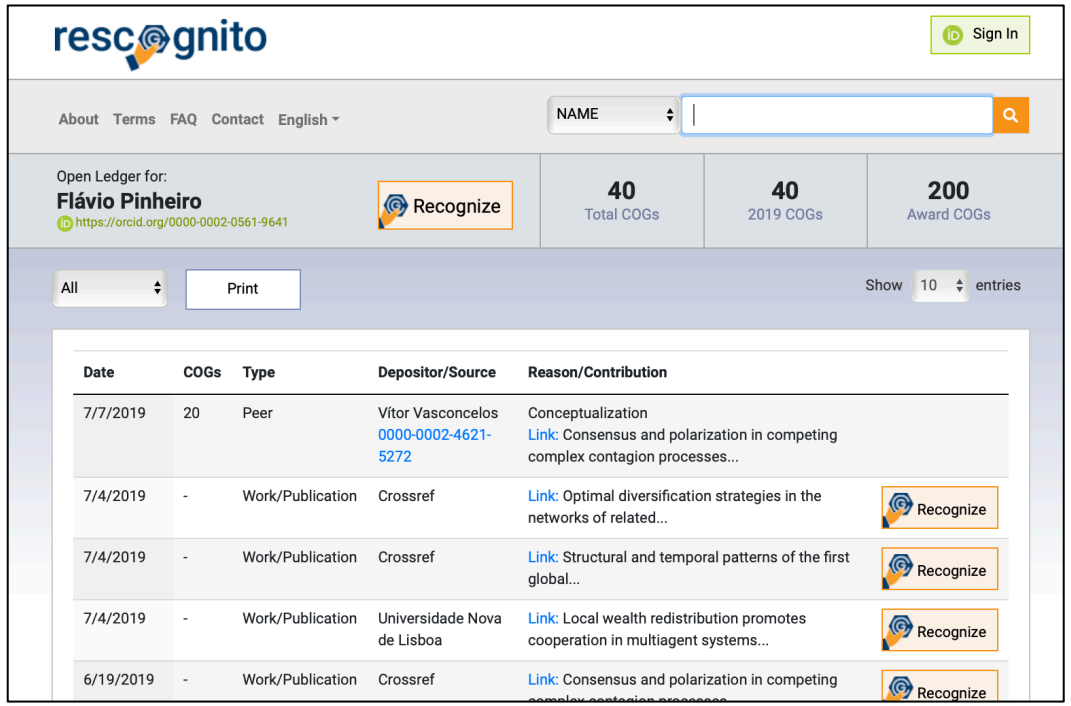
What does Peer-to-Peer Recognition Look Like?



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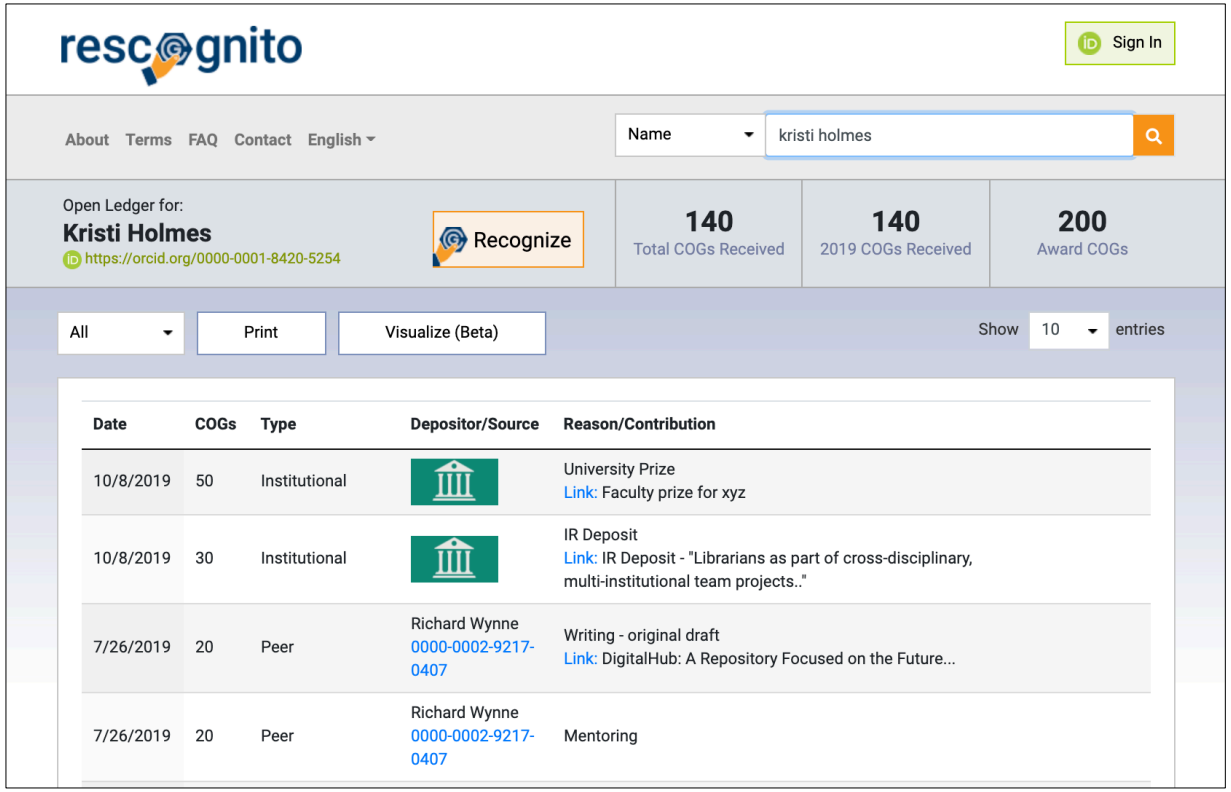
What does “Curated” (Institutional) Recognition Look Like?



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How is Institutional Recognition Recorded?

1. Manually - by an authorized individual
2. Semi-automated - by uploading a templated spreadsheet
3. Fully automated – by real-time API

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Demo

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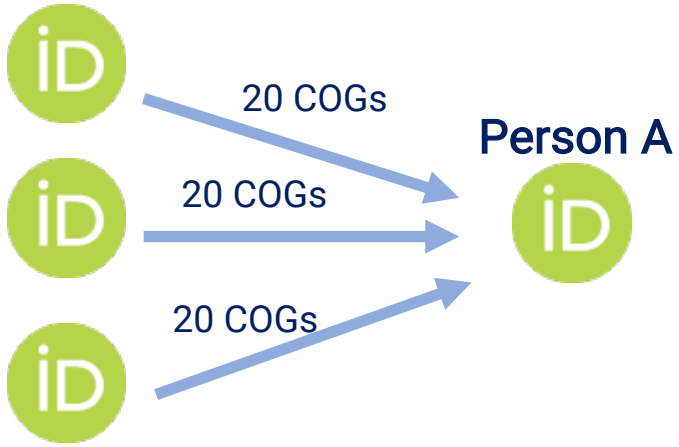
Visualizing and Interpreting COGs

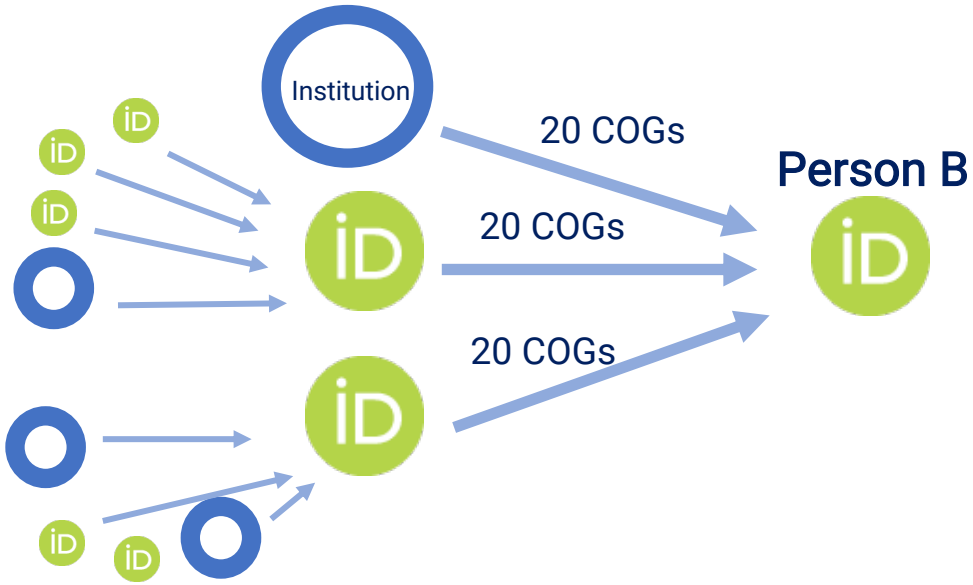


60 COGs

“Weighted Value”

20 X 0.1
20 X 0.1
20 X 0.1

6 COGs Weighted



60 COGs

“Weighted Value”

20 X 2.0
20 X 1.0
20 X 1.0

80 COGs Weighted

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Candidate Library Pilots - for Discussion

1. Assigning CRediT
2. Recognition of IR deposit
3. Amplification of institutional Awards and Prizes

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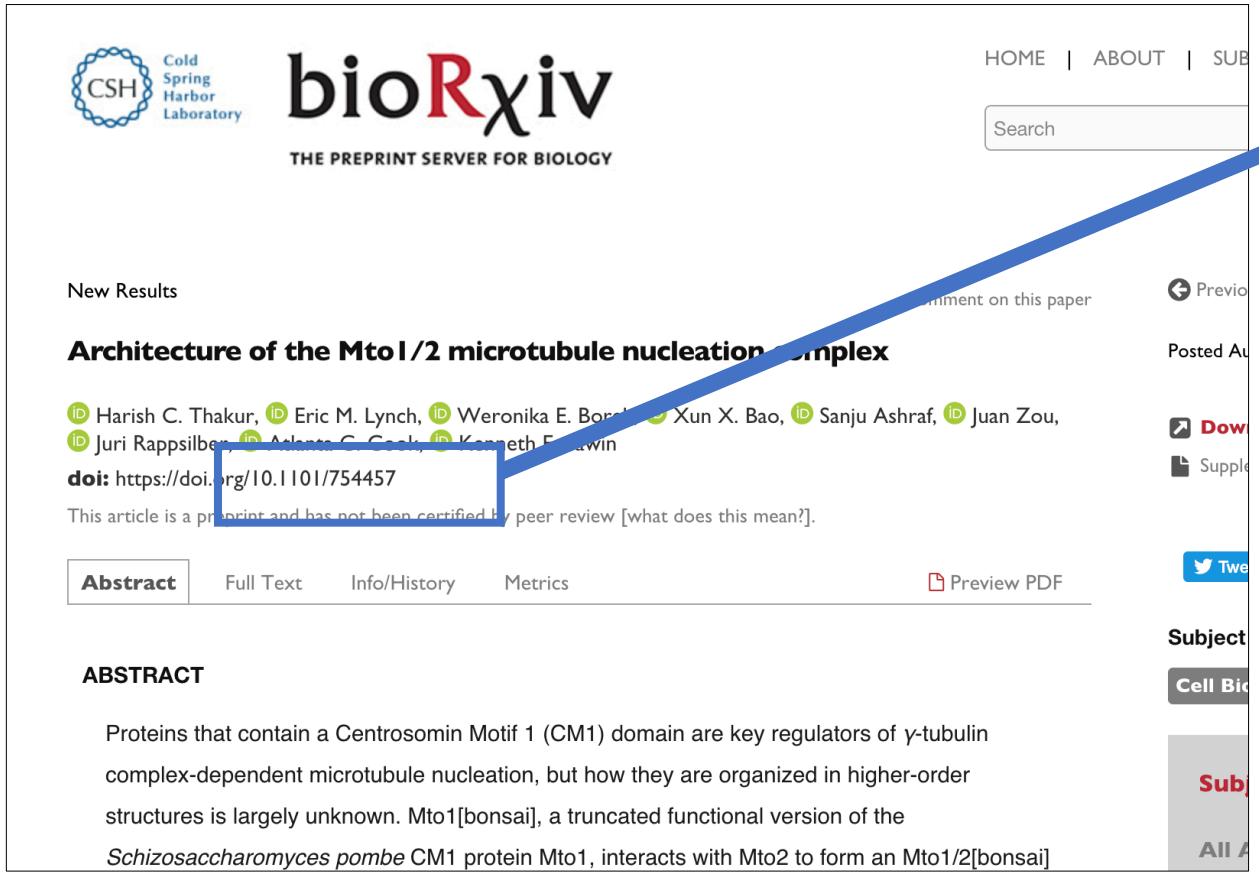
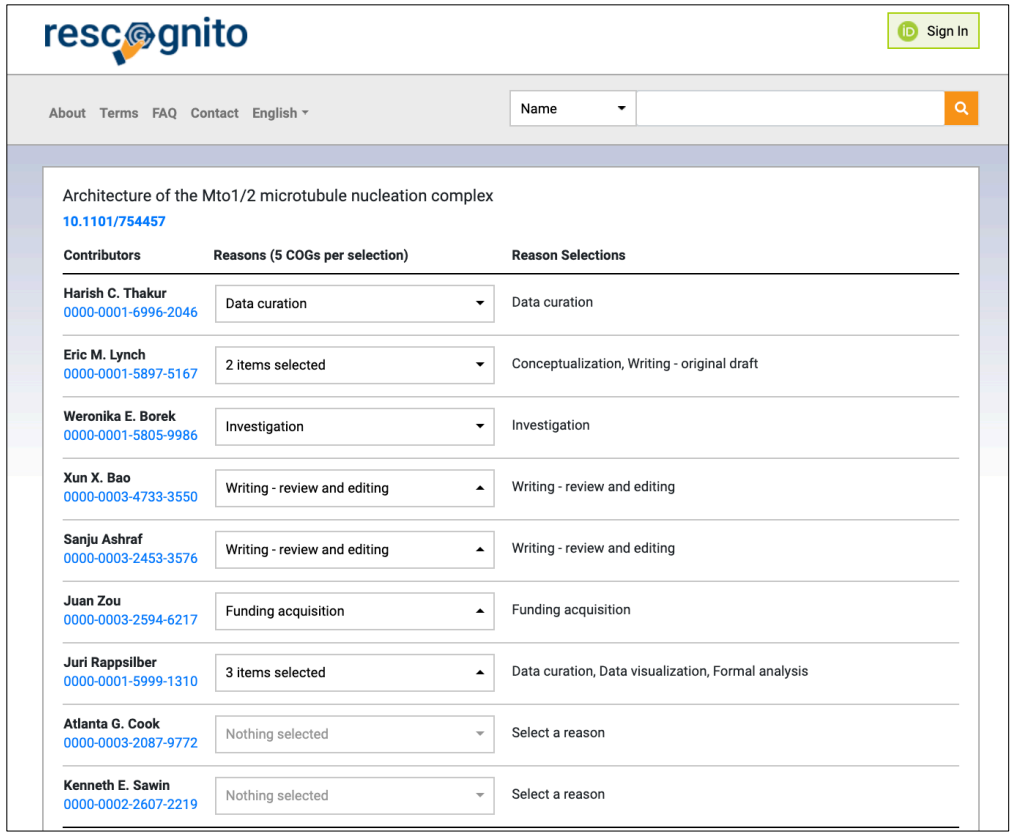


https://rescognito.com/...doi

http://rescognito.com/10.1101/754457



CRediT Recognition for Your Faculty

- DORA compliance

"8. Encourage responsible authorship practices and the provision of information about the specific contributions of each author."

- Free and easy: www.rescognito.com/doi
- Encourages greater ORCID adoption
- Increase faculty satisfaction – especially ECRs
- Signal your institutional expertise to research funders
- Reportable
- Branded and customized options available

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Candidate Library Pilots - for Discussion

1. Assigning CRediT
2. Recognition of IR deposit
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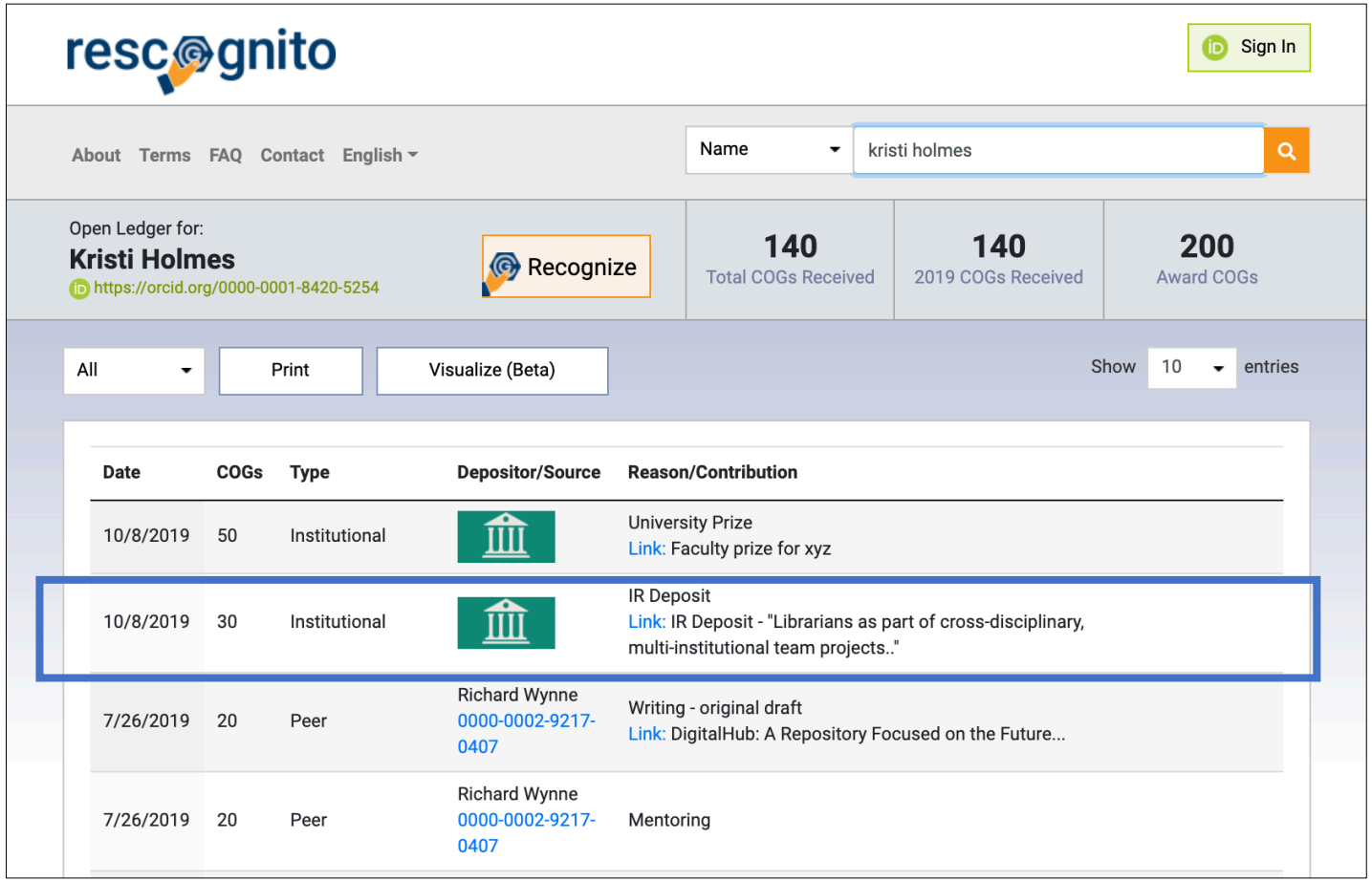
Recognize IR Deposits



- Structured recognition:
  - Branded
  - Quantified
  - Contextualized
  - ROR.org ID for Institution
- Convenient for recipient
- Interoperable/Reportable
- Requires no researcher “membership”
- Simple and low cost to implement

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Candidate Library Pilots - for Discussion

1. Assigning CRediT
2. Recognition of IR deposit
3. Amplification of Institutional Awards and Prizes

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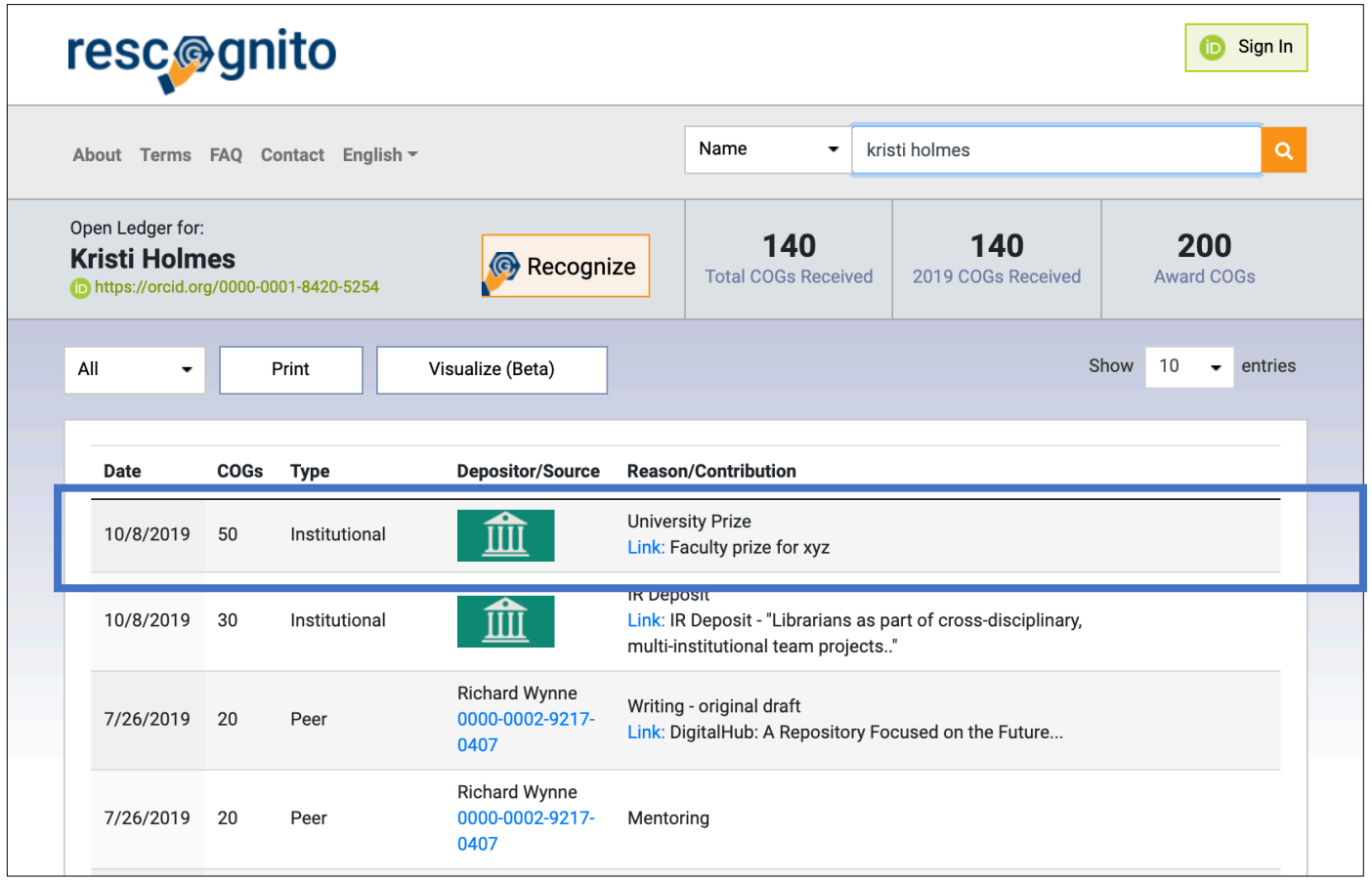
Recognize Prizes and Awards



- Turn local recognition into international visibility
- Structured recognition:
  - Branded
  - Quantified
  - Contextualized
  - ROR.org institutional identification
- Convenient for recipient
- Interoperable/Reportable

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PIDs make possible our vision:

An open environment where researchers and research professional are recognized for a wide range of behaviors and contributions that benefit the Open Research ecosystem

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