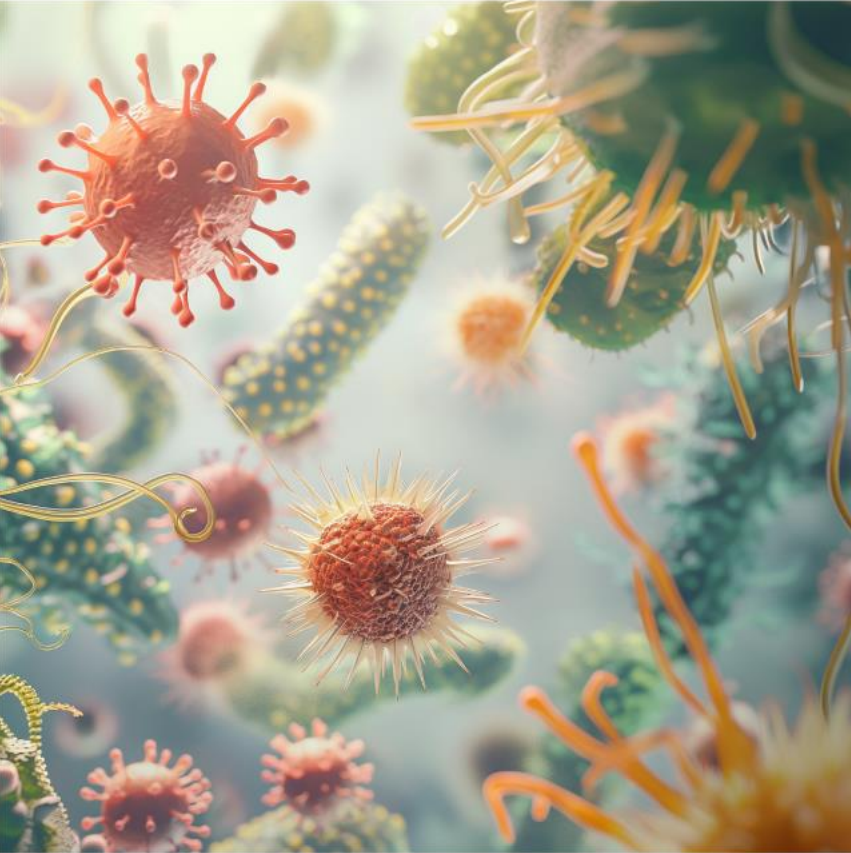


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September 2024

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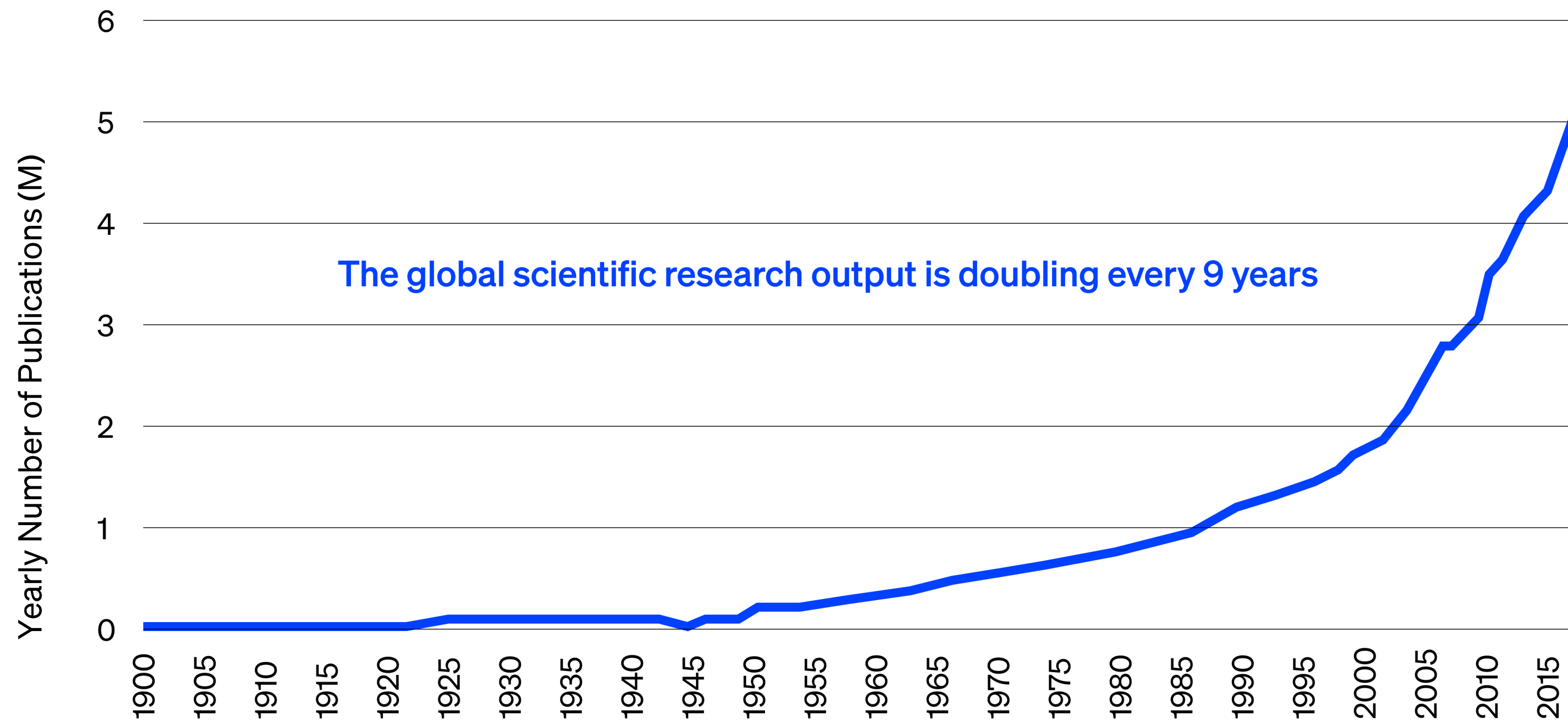


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Exponential growth in research publications and reproducibility challenges cause information overload and trust concerns among academic & corporate researchers



Research is becoming hard to trust and build on

“...the cumulative (total) prevalence of irreproducible preclinical research exceeds 50%, resulting in approximately US\$28 billion/year spent on preclinical research that is not reproducible.”

Freedman LP, Cockburn IM, Simcoe TS (2015) **The Economics of Reproducibility in Preclinical Research**. PLOS Biology 13(6): e1002165. <https://doi.org/10.1371/journal.pbio.1002165>

640 | 4 | 528 | 0 | 2

66% of researchers say they feel overwhelmed by the volume of published research they must review

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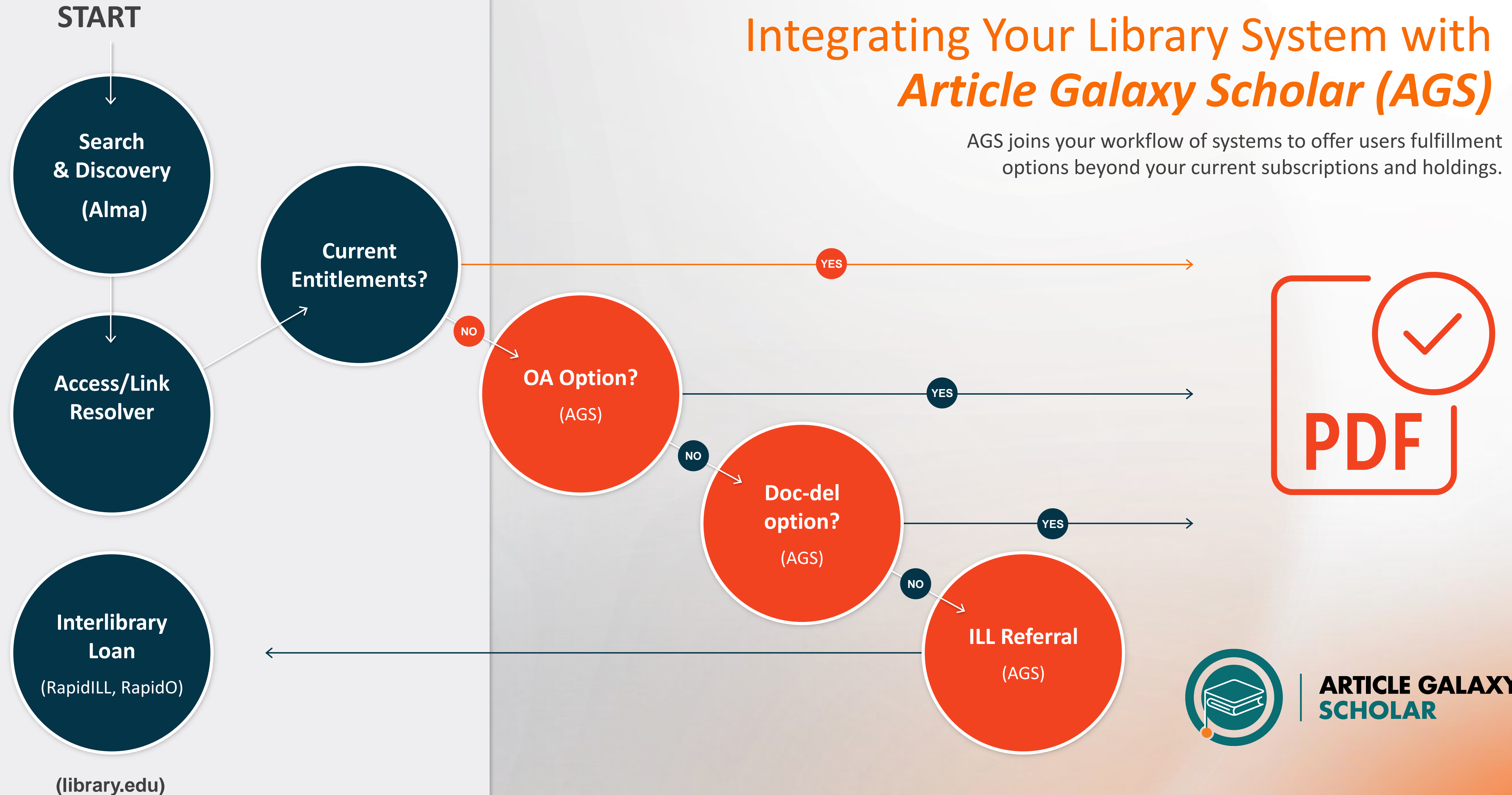
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Type: Database

Interface name: Reprints Desk

Creation Date: 12/15/2019
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Modification Date: 07/07/2024
04:32:36 EDT


Collection ID: 6113993740000041

MMS ID: 997471712000041

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 Asia Pacific: 2

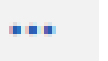
 Europe, Middle East and
Africa: 0

 North America & Latin
America: 1

 Total Activations: 3

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Descriptive Record



2

Reprints Desk Article Galaxy Scholar

Type: Aggregator package

Service: Full Text

Interface name: Reprints Desk

Linking Level: Article

Creation Date: 04/12/2021
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Modification Date: 08/25/2024
06:00:12 EDT

Collection ID:

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MMS ID: 9918036061000041

 Management Level: Ex Libris

 Asia Pacific: 3

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Africa: 1

 North America & Latin
America: 9

 Total Activations: 13

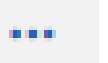
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Cell Biology, Chromosomes and Gene Expression

Chromosome mis-segregation and cytokinesis failure in trisomic human cells

Joshua M Nicholson, Joana C Macedo, Aaron J Mattingly, Darawalee Wangsa, Jordi Camps, Vera Lima, Ana M Gomes, Sofia Dória, Thomas Ried
[see all »](#)

Virginia Tech, United States; Universidade do Porto, Portugal; National Institutes of Health, United States

Research Article · May 5, 2015

Cited 46 Views 7,761 Annotations 0 Cite as: eLife 2015;4:e05068 DOI: 10.7554/eLife.05068

Article	Abstract	Of interest
Figures and data	<p>Cancer cells display aneuploid karyotypes and typically mis-segregate chromosomes at high rates, a phenotype referred to as <i>chromosomal instability</i> (CIN). To test the effects of aneuploidy on chromosome segregation and other mitotic phenotypes we used the colorectal cancer cell line DLD1 (2n = 46) and two variants with trisomy 7 or 13 (DLD1+7 and DLD1+13), as well as euploid and trisomy 13 amniocytes (AF and AF+13). We found that trisomic cells displayed higher rates of chromosome mis-segregation compared to their euploid counterparts. Furthermore, cells with trisomy 13 displayed a distinctive</p>	<p>3D in situ imaging of the female reproductive tract reveals molecular signatures of fertilizing spermatozoa in mice</p>
Side by side		Lukas Ded et al.
Abstract		Research Article · Updated Dec 1, 2020
eLife digest		

Chromosome mis-segregation and cytokinesis failure in trisomic human cells

Joshua M. Nicholson¹, Joana Catarina Macedo², Aaron Mattingly³, Darawalee Wangsa⁴, Jordi Camps⁵, Vera Lima⁶, Ana Margarida Gomes⁷, Sofia Dória⁸, Thomas Ried⁹, Elsa Logarinho¹⁰, Daniela Cimini¹¹

Abstract: Cancer cells display aneuploid karyotypes and typically mis-segregate chromosomes at high rates, a phenotype referred to as chromosomal instability (CIN). To test the effects of aneuploidy on chromosome segregation and other mitotic phenotypes we used the colorectal cancer cell line DLD1 (2n = 46) and two variants with trisomy 7 or 13 (DLD1+7 and DLD1+13), as well as euploid and trisomy 13 amniocytes (AF and AF+13). We found that trisomic cells displayed higher rates of chromosome mis-segregation compared to t... [Show more](#)

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- Introduction 21
- Discussion 16
- Results 9
- Aneuploidy Can Promote Further Genome Instability 5

Citation Types ⓘ

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- Mentioning 92
- Contrasting 0

🗨️ Cited by 95 publications (99 citation statements)

📄 References 74 publications (125 reference statements)

“...Compared to the diploid parental line, the frequencies of chromosome missegregation and micronuclei formation were significantly elevated in most PTA clones (Figure 2A) but not in the tetraploid line (Figure 2A). In agreement with previous work (Nicholson et al., 2015), the trisomic clones showed similar aberrations, albeit to a lesser extent (Supplemental Figure S2B). Furthermore, we observed an increase of structural aberrations in PTA lines and, consistent with earlier work (Kuznetsova et al., 2015 ; Passerini et al., 2016), also in trisomic clones (Figure 2B)....”

Section: Results supporting confidence: 93%

Quantitative proteomic and phosphoproteomic comparison of human colon cancer DLD-1 cells differing in ploidy and chromosome stability Viganó¹, Schubert², Ahmé³ et al. 2018 *MBoC*

46 5 37 0

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“...To independently confirm the observed chromosome instability, RPE +18+18 aneuploid cells were treated with dihydrocytochalasin B (DCB) to disrupt cytokinesis followed by FISH labelling using specific probes to identify chromosomes 13, 18 and 21 in the binucleated cells (Fig 2E and F). This method reveals the reciprocal distribution of labeled chromosomes between daughter nuclei immediately after chromosome segregation and can be applied to the analysis of several hundred cells in tandem [10]. As shown in Fig 2E and F, RPE +18+18 cells displayed a significant increase in chromosome mis-segregation rates, consistent with the results of our live-cell imaging analysis....”

Section: Aneuploid Cell Lines Display Stable Karyotypes Despite Chrom supporting confidence: 82%

“...Aneuploid karyotypes display different degrees of genome instability between model systems [8][9] [10] [11]. We therefore proceeded to test whether karyotype stability of the aneuploid lines obtained here was due to a high overall level of chromosomal integrity or could be attributed to growth restriction of the aberrant daughter cells....”

Section: Aneuploid Cell Lines Display Stable Karyotypes Despite Chrom mentioning confidence: 99%

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...

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Scite Badges are live on a number of publisher sites

The screenshot shows a web browser window displaying the Royal Society Publishing website. The page features a red header with the Royal Society Publishing logo and navigation links. The main content area is titled "PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY B" and "BIOLOGICAL SCIENCES". The article title is "Food waste within food supply chains: quantification and potential for change to 2050" by Julian Parfitt, Mark Barthel, and Sarah Macnaughton. The article is published on 27 September 2010. A Scite badge is visible on the right side of the article, showing a 1.6k badge and a table of Scite statistics: 1,672 citations, 19 correct citations, 1,191 incorrect citations, and 2 unknown citations. The badge also includes a "Keywords" section with terms like "consumer waste", "post-harvest loss", and "food waste".

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Section

Abstract

1. Introduction
2. Food waste in the supply chain
3. Post-consumer food waste
4. Food waste to 2050: projections and uncertainties
5. Conclusions

Acknowledgements

Articles

Food waste within food supply chains: quantification and potential for change to 2050

Julian Parfitt, Mark Barthel and Sarah Macnaughton

Published: 27 September 2010 | <https://doi.org/10.1098/rstb.2010.0126>

Abstract

Food waste in the global food supply chain is reviewed in relation to the prospects for feeding a population of nine billion by 2050. Different definitions of food waste with respect to the complexities of food supply chains (FSCs) are discussed. An international literature review found a dearth of data on food waste and estimates varied widely; those for post-harvest losses of grain in developing countries might be overestimated. As much of the post-harvest loss data for developing countries was collected over 30 years ago, current global losses cannot be quantified. A significant gap exists in the understanding of the food waste implications of the rapid development of 'BRIC' economies. The limited data suggest that losses are much higher at the immediate post-harvest stages in developing countries and higher for perishable foods across industrialized and developing economies alike. For affluent economies, post-consumer

Details References Related Figures

1.6k

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1,672
19
1,191
2

Keywords

consumer waste

post-harvest loss

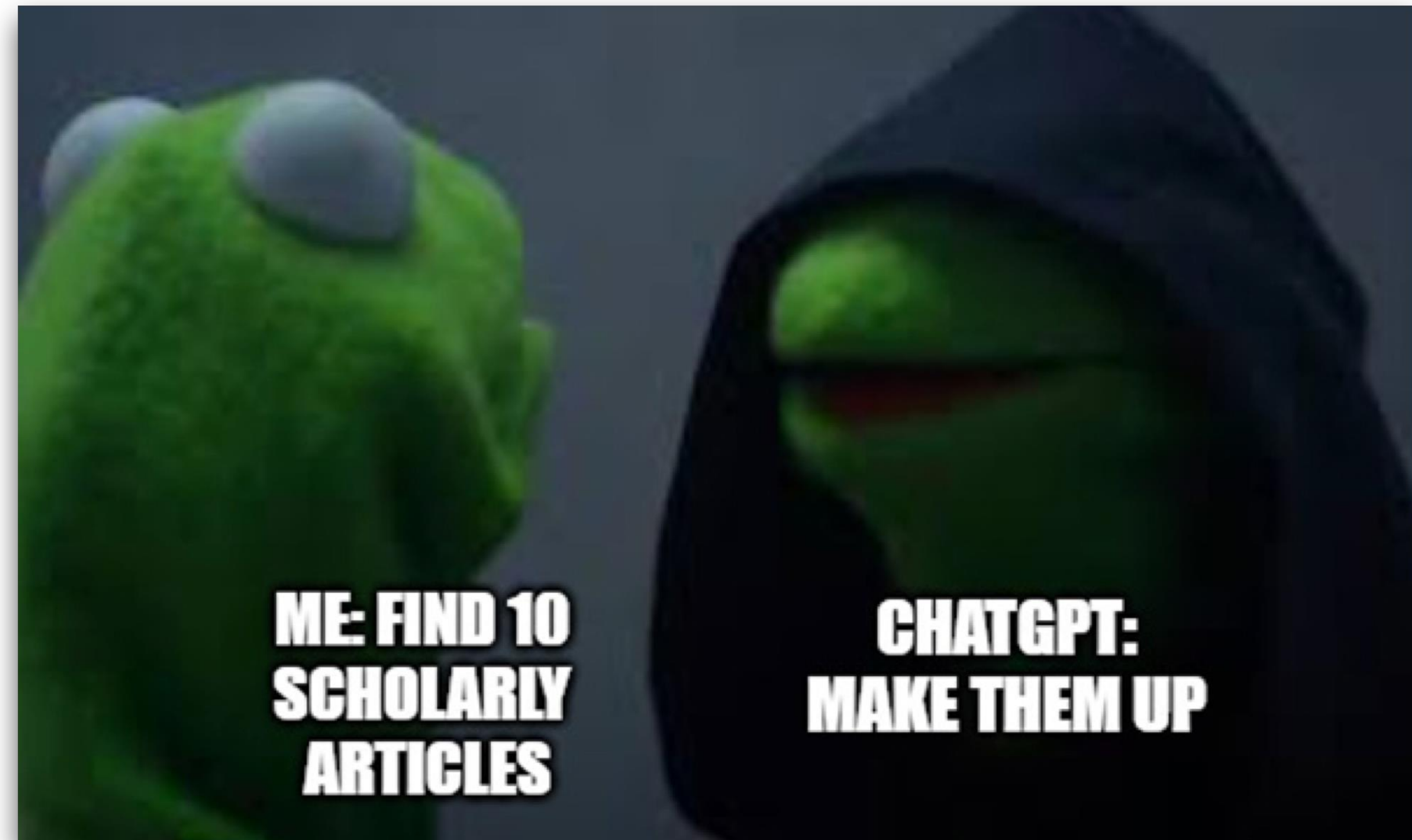
food waste

Enter ChatGPT

Nick DeVito
@NDeVito1

So I asked ChatGPT to give me a bibliography of studies looking at publication bias in clinical trials and it gave me 9 studies a number of which don't exist!

7. Prasad V, Jena AB. Prespecified falsification end points: can they validate true observational associations? JAMA. 2013 Jan 23;309(4):347-8. doi: 10.1001/jama.2012.94864
8. Paul M, Latka C, Hicks L, Adhikari NKJ, Koo E, Kovic I, et al. Challenges related to publication bias in studies involving noninvasive respiratory support for critically ill patients with COVID-19: a systematic review. Crit Care Med. 2021 May 1;49(5):822-9. doi: 10.1097/CCM.0000000000004962
9. Evans SR, Davey P, Smith J, Lord J, Littlejohns P, Goldacre B. Automated assessment of bias in clinical trial reports. JAMA Netw Open. 2020 Apr 1;3(4):e203207. doi:






<https://blogs.library.duke.edu/blog/2023/03/09/chatgpt-and-fake-citations/>

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View and edit search strategy and reference selection process

Export references used across all responses

Assistant's response

Your follow-ups

Reference list used to support the claims in this response, with relevant snippets from full-text / abstracts for your review.

The screenshot displays a research assistant interface. On the left, a 'Table of contents' lists two topics: 'How does the structure of a protein affect its function?' (selected) and 'What is a tertiary protein?'. Below this is an 'Export References' button. The central chat window shows a user prompt: 'How does the structure of a protein affect its function?'. The assistant's response provides a detailed explanation of protein structure and function, supported by several references. A follow-up prompt asks, 'What is a tertiary protein?'. On the right, a 'References' panel lists the cited articles with snippets of text used in the response. The references include:

- Editorial: Structure-function metrology of proteins (Jones et al., 2023) from *Front. Mol. Biosci.*
- Impact of Chemical Cross-Linking on Protein Structure and Function (Rozbeský et al., 2018) from *Anal. Chem.*
- The Loss and Gain of Functional Amino Acid Residues Is a Common Mechanism Causing Human Inherited Disease (Lugo-Martinez et al., 2016) from *PLoS Comput Biol.*

 Each reference entry includes a snippet of text and a '>>' link to the full text.



Immunotherapy 2013 DOI: 10.2217/imt.13.9 | Cite | Purchase for \$89.75 | Rent for \$39.90 | Set alert | Twitter | Facebook | LinkedIn

Tremelimumab: A Review of Development to Date in Solid Tumors

Ahmad A. Tarhini¹

Abstract: Tremelimumab is an investigational, fully human IgG monoclonal antibody directed against CTLA-4, a coinhibitory receptor that represses effector T-cell activity in cancer. Tremelimumab has produced promising anticancer responses in early clinical trials. However, a phase III trial of tremelimumab monotherapy versus chemotherapy in advanced melanoma was stopped early when no statistically significant difference in overall survival was observed between the two interventions. This article describes tremelimumab's... [Show more](#)

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Tarhini Ahmad A
Immunotherapy, 2013, Vol 5 (3), 215-229
DOI: 10.2217/imt.13.9

Publications 55 Supporting 1 Mentioning 36 Contrasting 0

AI summary: The putative mechanism of action, its preclinical pharmacology and clinical results to date across a range of cancer settings as monotherapy, as well as in combination with other therapies are described.

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