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OA Week 2018

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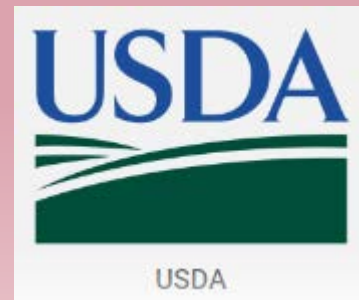
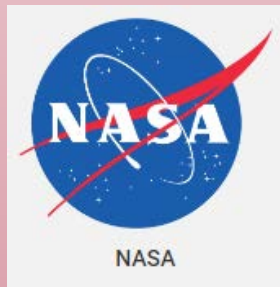
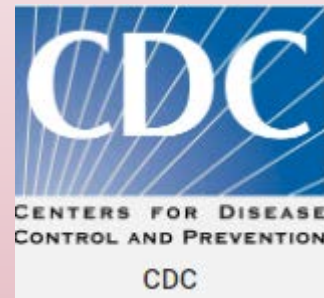
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RESEARCH ARTICLE

Efficient Record Linkage Algorithms Using Complete Linkage Clustering

Abdullah-AI Mamun, Robert Asetline, Sanguthevar Rajasekaran

Published: April 28, 2016 • <https://doi.org/10.1371/journal.pone.0154446>

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Abstract

- Introduction
- Background and Significance
- Related Works
- Methods
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- Discussion
- Conclusions
- Acknowledgments
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Abstract

Data from different agencies share data of the same individuals. Linking these datasets to identify all the records belonging to the same individuals is a crucial and challenging problem, especially given the large volumes of data. A large number of available algorithms for record linkage are prone to either time inefficiency or low-accuracy in finding matches and non-matches among the records. In this paper we propose efficient as well as reliable sequential and parallel algorithms for the record linkage problem employing hierarchical clustering methods. We employ complete linkage hierarchical clustering algorithms to address this problem. In addition to hierarchical clustering, we also use two other techniques: elimination of duplicate records and blocking. Our algorithms use sorting as a sub-routine to identify identical copies of records. We have tested our algorithms on datasets with millions of synthetic records. Experimental results show that our algorithms achieve nearly 100% accuracy. Parallel implementations achieve almost linear speedups. Time complexities of these algorithms do not exceed those of previous best-known algorithms. Our proposed algorithms outperform previous best-known algorithms in terms of accuracy consuming reasonable run times.

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Figures



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[← Back to Results](#) Effort-related functions of nucleus accumbens dopamine and associated forebrain circuits.

(PMID:17225164)

Abstract




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[Salamone JD¹](#)  , [Correa M](#) , [Farrar A](#), [Mingote SM](#)[Affiliations](#) ▶[Psychopharmacology](#) [16 Jan 2007, 191(3):461-482]

Type: Review, Research Support, U.S. Gov't, Non-P.H.S., Journal Article, Research Support, N.I.H., Extramural

DOI: [10.1007/s00213-006-0668-9](https://doi.org/10.1007/s00213-006-0668-9) 



Abstract

Over the last several years, it has become apparent that there are critical problems with the hypothesis that brain dopamine (DA) systems, particularly in the nucleus accumbens, directly mediate the rewarding or primary motivational characteristics of natural stimuli such as food. Hypotheses related to DA function are undergoing a substantial restructuring, such that the classic emphasis on hedonia and primary reward is giving way to diverse lines of research that focus on aspects of instrumental learning, reward prediction, incentive motivation, and behavioral activation. The present review discusses dopaminergic involvement in behavioral activation and, in particular, emphasizes the effort-related functions of nucleus accumbens DA and associated forebrain circuitry. The effects of accumbens DA depletions on food-seeking behavior are critically dependent upon the work requirements of the task. Lever pressing schedules that have minimal work requirements are largely unaffected by accumbens DA depletions, whereas reinforcement schedules that have high work (e.g., ratio) requirements are substantially impaired by accumbens DA depletions. Moreover, interference with accumbens DA transmission exerts a powerful influence over effort-related decision making. Rats with accumbens DA

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- Increases scholarly citation rates
- Allows better models and more collaborative research

What Research say about OA?

At least 28% of the scholarly literature is OA (19M in total) and [...] this proportion is growing, driven particularly by growth in Gold and Hybrid.

The most recent year analyzed (2015) also has the highest percentage of OA (45%).

Open-access citation advantage: accounting for age and discipline, OA articles receive 18% more citations than average, an effect driven primarily by Green and Hybrid OA.

Piwowar, H., Priem, J., Larivière, V., Alperin, J. P., Matthias, L., Norlander, B., ... Haustein, S. (2018). The state of OA: a large-scale analysis of the prevalence and impact of Open Access articles. *PeerJ*, 6, e4375. <http://doi.org/10.7717/peerj.4375>

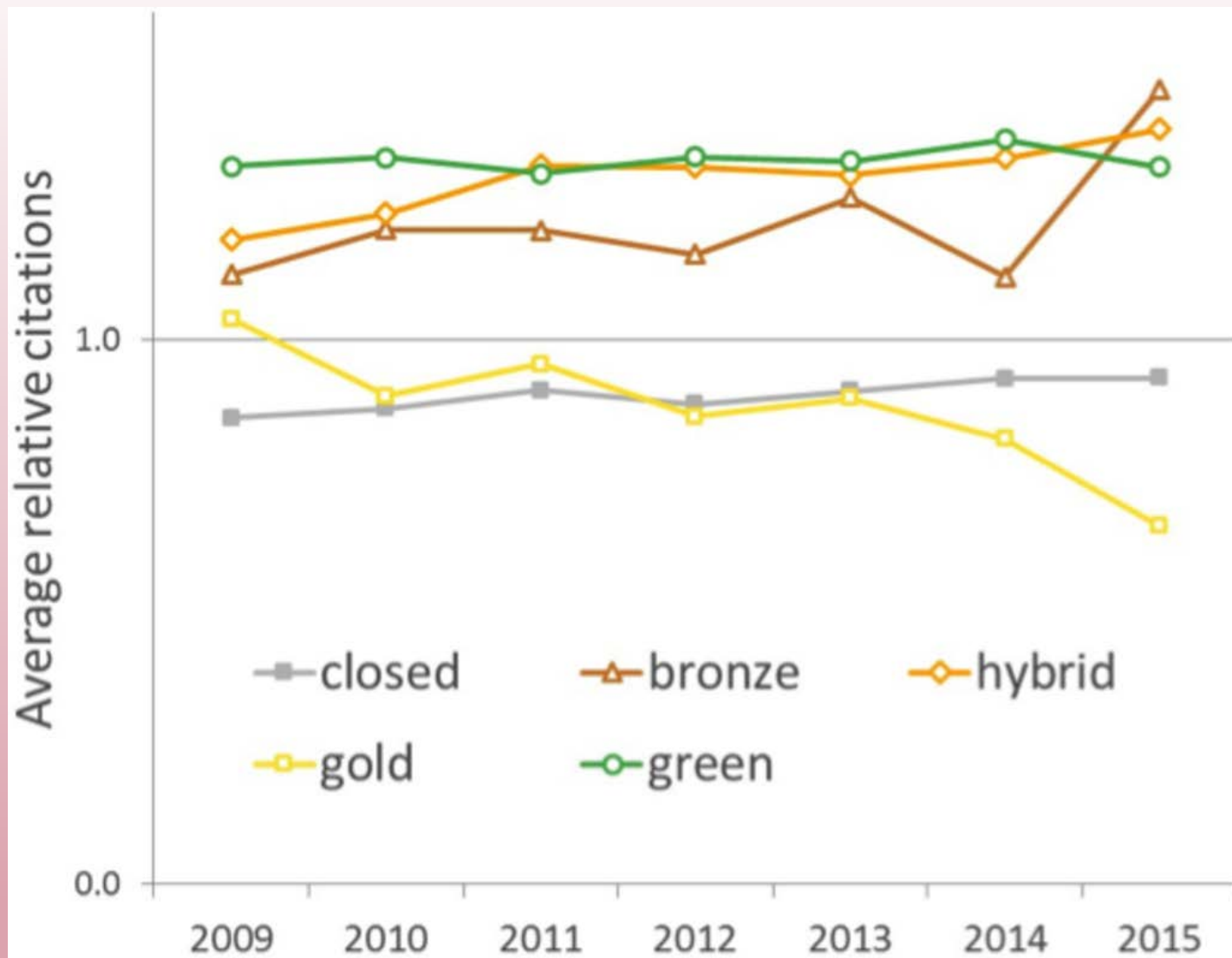
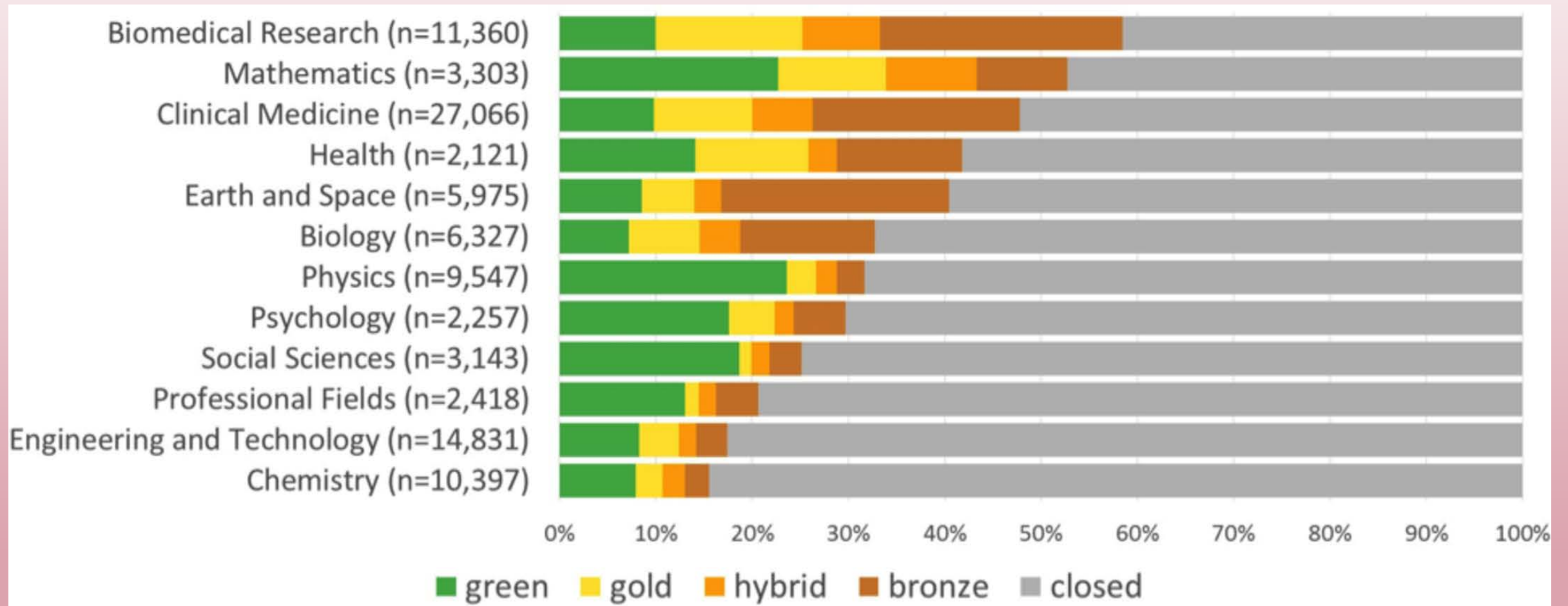


Figure 6: Percentage and impact of different access types of a random sample of WoS articles and reviews with a DOI, by year of publication.

Piwowar, H., Priem, J., Larivière, V., Alperin, J. P., Matthias, L., Norlander, B., ... Haustein, S. (2018). The state of OA: a large-scale analysis of the prevalence and impact of Open Access articles. *PeerJ*, 6, e4375, p. 15. <http://doi.org/10.7717/peerj.4375>

Figure 4: Percentage of different access types of a random sample of WoS articles and reviews with a DOI published between 2009 and 2015 per NSF discipline (excluding Arts and Humanities).



Piowar, H., Priem, J., Larivière, V., Alperin, J. P., Matthias, L., Norlander, B., ... Haustein, S. (2018). The state of OA: a large-scale analysis of the prevalence and impact of Open Access articles. *PeerJ*, 6, e4375, p. 14. <http://doi.org/10.7717/peerj.4375>

What UConn Faculty says about OA?



→ “I prefer open access journals because they make my work available to a broader audience ... open access journals democratize knowledge and science” –**David Wagner**, Ecology & Evolutionary Biology



→ “Speedy publication with enhanced visibility and dissemination” -**Kumar Venkatarayanan**, Animal Science

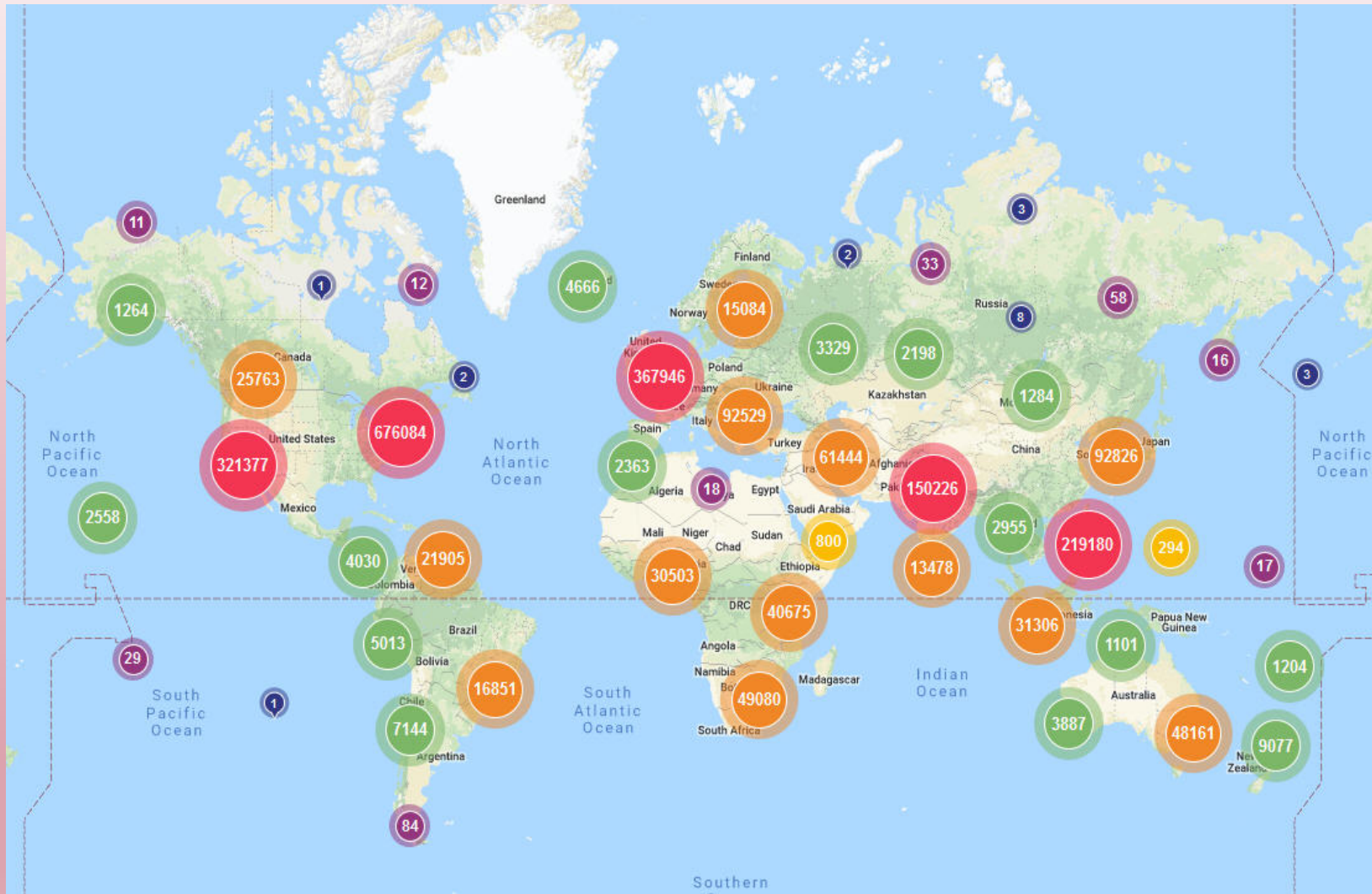
“I think open access is a good idea, at least for some papers ... I just wish it was not so expensive.” -**John Salamone**, Psychology



A Sampling of UConn Faculty Open Access Authors

Name	Department	Gold OA articles	Green OA articles
Emmanouil Anagnostou	Civil and Environmental Engineering	15	-
Ashis Basu	Chemistry	23	57
Craig Coleman	Pharmacy	25	155
Dipak Dey	Statistics	4	24
Sanguthevar Rajasekaran	Engineering	28	58
John Salamone	Psychology	13	99
Carolyn Teschke	Molecular and Cell Biology (MCB)	5	46
Kumar Venkitanarayanan	Animal Science	15	72
David Wagner	Ecology and Evolutionary Biology	8	18

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Huedo-Medina, Tania et al., "Assessing Heterogeneity in Meta-Analysis: Q Statistic or I2 Index?" (2006). <i>CHIP Documents</i> . 19	74,867	1,675
Granito, Mark and Chernobilsky, Ellina, "The Effect of Technology on a Student's Motivation and Knowledge Retention" (2012). <i>NERA Conference Proceedings 2012</i> . 17.	73,677	33
Ercole, Jacqueline, "Labeling in the Classroom: Teacher Expectations and their Effects on Students' Academic Potential" (2009). <i>Honors Scholar Theses</i> . 98.	60,006	8
Jarrin, Olga F., "An Integral Philosophy and Definition of Nursing" (2007). <i>School of Nursing Scholarly Works</i> . 47.	57894	33

*Data: Google Scholar

Recent Developments in Open Access

- “Coalition of European Funders Announces ‘Plan S’ to Require Full OA, Cap APCs, & Disallow Publication in Hybrid Journals” (SPARC site, September 4, 2018)
- Dutch Universities, Journal Publishers Agree on Open-Access Deals (*The Scientist Magazine*, April 17, 2018)

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