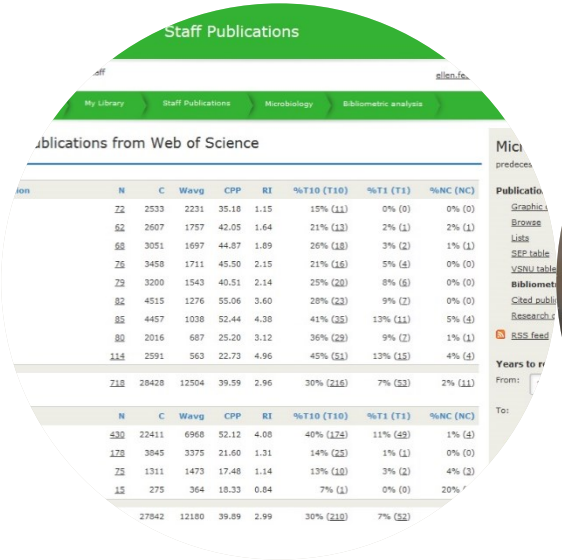
Comparing bibliometric tools for research assessment from a CRIS point of view

CRIS2018, Umeå

16 June 2018, Ellen Fest, Hilde van Zeeland, Jorik Booij, Theo Jetten and Peter van der Togt (Wageningen University & Research - Library)



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Wageningen University & Research - Facts & Figures

employees

6.500

students

12.000

professors

159

PhD-students

1.951

630

million euro annual budget

1967

Academic staff

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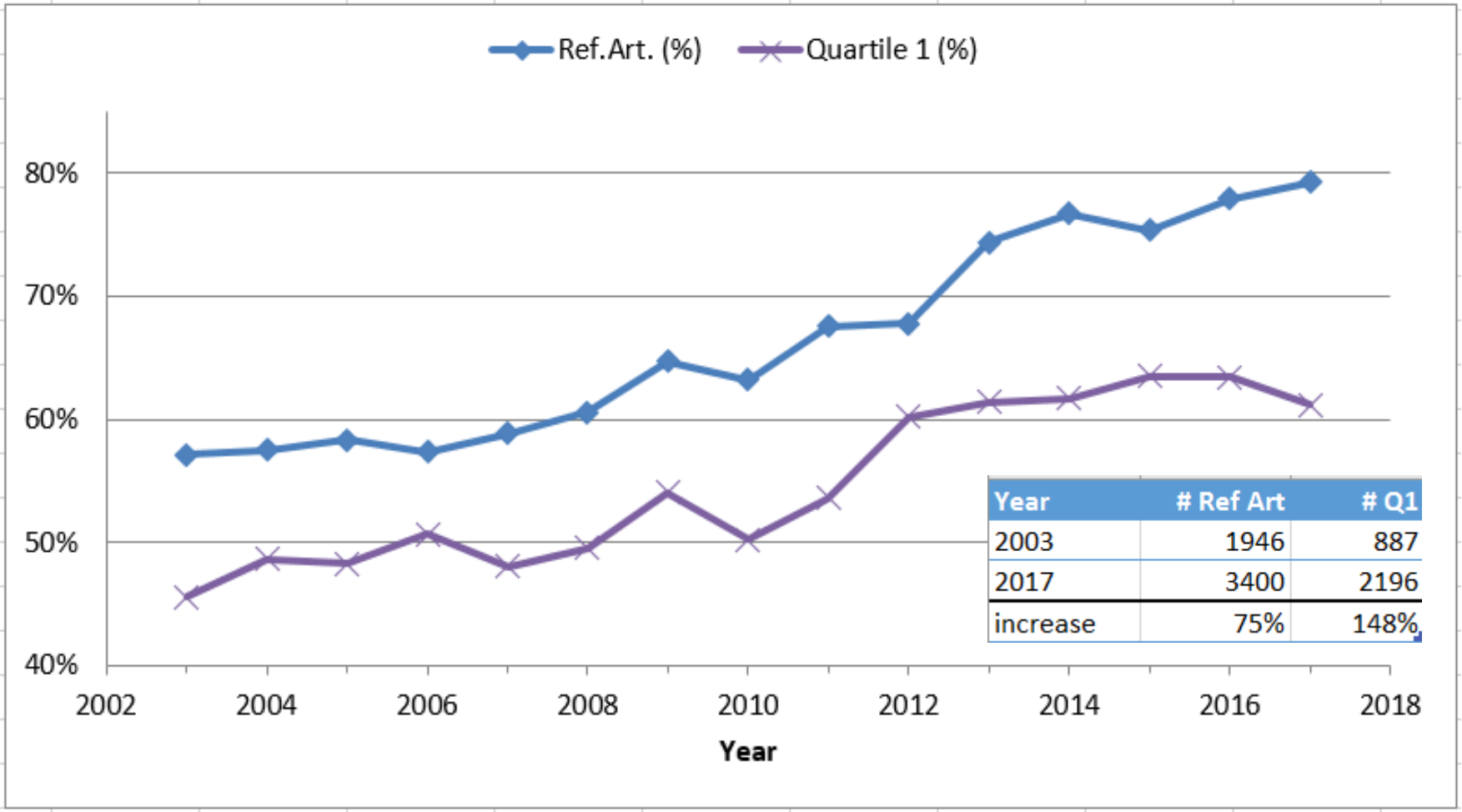
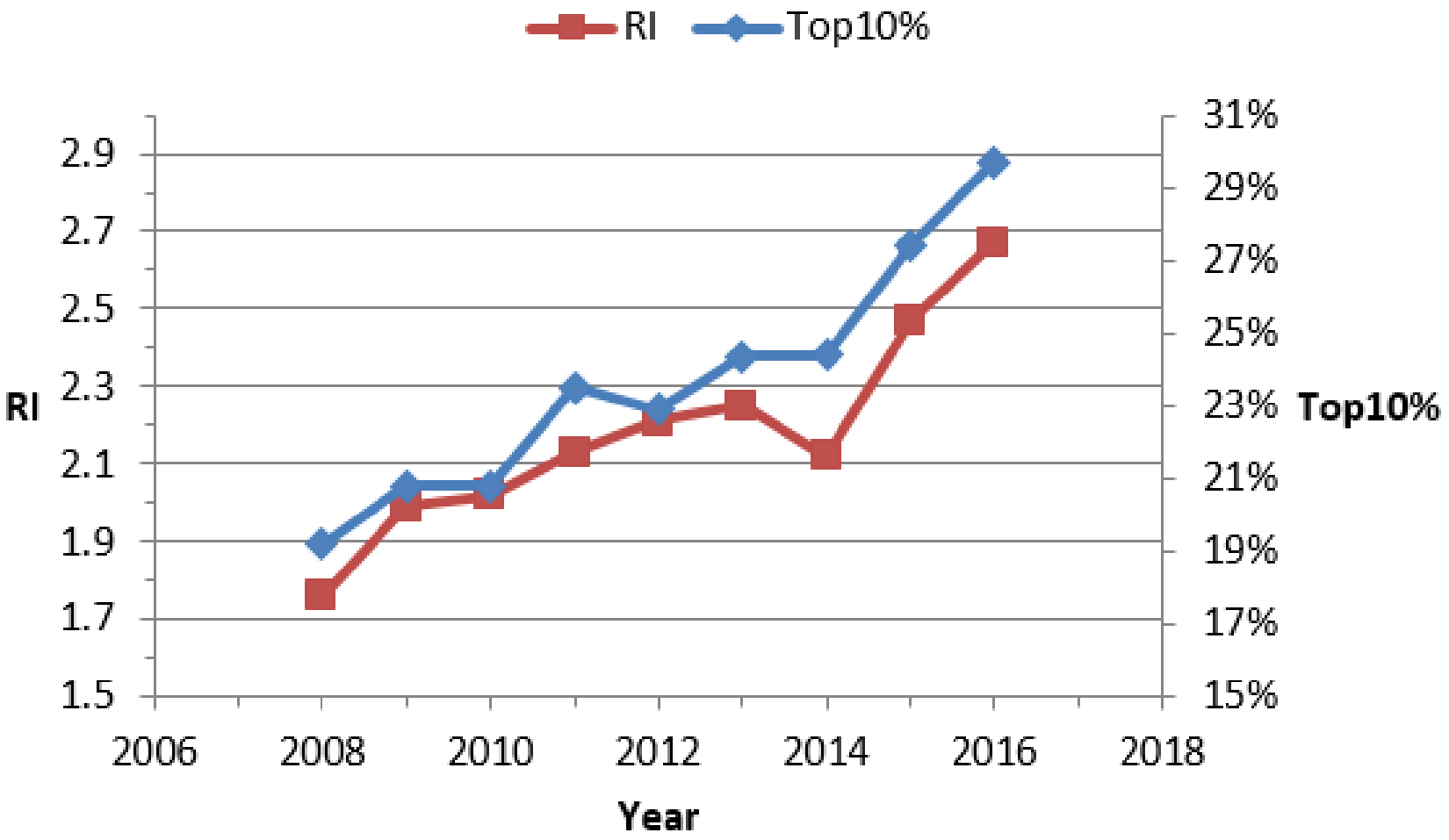
Monitoring output



Year	# Ref Art	# Q1
2003	1946	887
2017	3400	2196
increase	75%	148%

Monitoring impact



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Staff Publications

WAGENINGEN UNIVERSITY & RESEARCH

Staff Publications

Research output of Wageningen University & Research staff

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Home > Library > My Library > Staff Publications > Wageningen Universit... > Bibliometric analysis

Year of publication	N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
2007	226	11865	6007	52.50	1.99	23% (51)	4% (9)	2% (4)
2008	236	11161	5602	47.29	2.03	24% (57)	4% (10)	1% (3)
2009	262	15539	5681	59.31	2.67	24% (64)	5% (14)	2% (4)
2010	333	14315	6254	42.99	2.43	26% (88)	5% (18)	2% (6)
2011	279	11136	4606	39.91	2.44	29% (81)	5% (15)	1% (4)
2012	335	10729	4721	32.03	2.26	27% (92)	7% (25)	3% (10)
2013	328	8127	3509	24.78	2.38	30% (99)	6% (20)	3% (10)
2014	325	6996	2617	21.53	2.97	32% (105)	8% (26)	3% (9)
2015	369	5024	1888	13.62	2.81	28% (105)	6% (23)	4% (16)
2016	467	3377	1035	7.23	3.29	34% (161)	8% (37)	13% (63)
All years	3160	98269	41922	31.10	2.59	29% (903)	6% (197)	4% (129)

Wageningen University & Research

Publications ?

- Browse
- Lists
- SEP table
- VSNU table
- **Bibliometric analysis**
- Cited publications
- Research credits

Pros and Cons of switch to commercial systems

+

- more functionality
- continuous development
- metrics based on international accepted theory
- recognized by evaluation committees

-

- calculation less transparent
- trend break upon switching

Why a comparison of systems?

- Current bibliometrics*:
  - ESI – Baselines
  - Web of Science citations

- ESI: 22 very broad categories, InCites 225, SciVal 27 main and 308 Sub fields.
- Coverage of journals in the Social and Applied Sciences is higher for Scopus than Web of Sciences
- Dimensions: New player in the field of bibliometrics

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*Van Veller, M.G.P. *et al*. 2010. Bibliometric analyses on repository contents for the evaluation of research at Wageningen UR. In: A. Katsirikou and C.H. Skiadas (eds.) Qualitative and Quantitative Methods in Libraries: Theory and Applications. p.19-26. http://edepot.wur.nl/7266.

Coverage of the systems

(WUR – Academic Journal Publications - 2009-2014)

WUR-CRIS	with doi	with Scopus ID	with WoS ID
18,623	16,975	17,149	16,360
	91%	92%	88%

Dimensions	SciVal	Web of Science
13,209	16,602	15,366
71%	89%	83%

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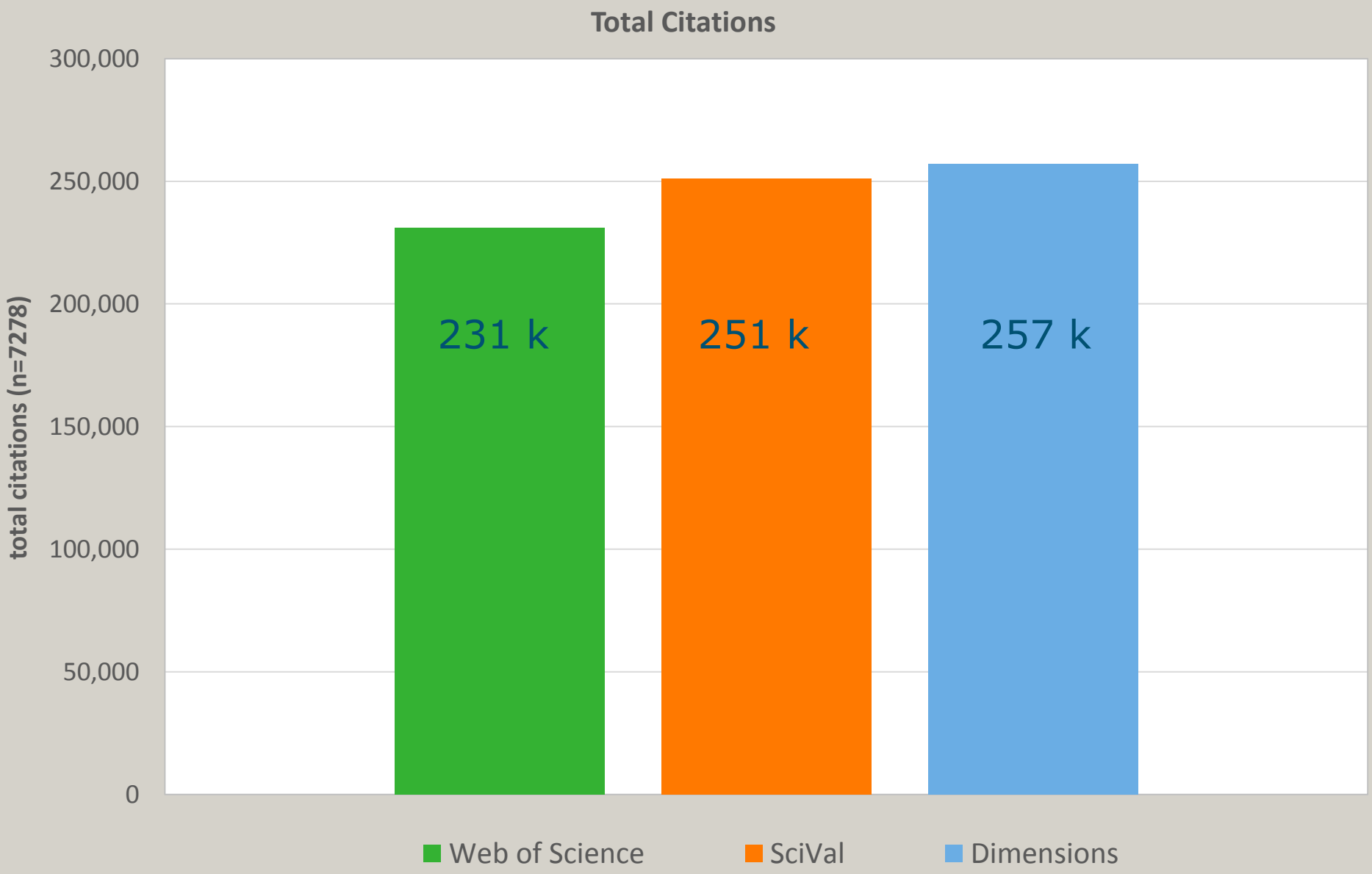
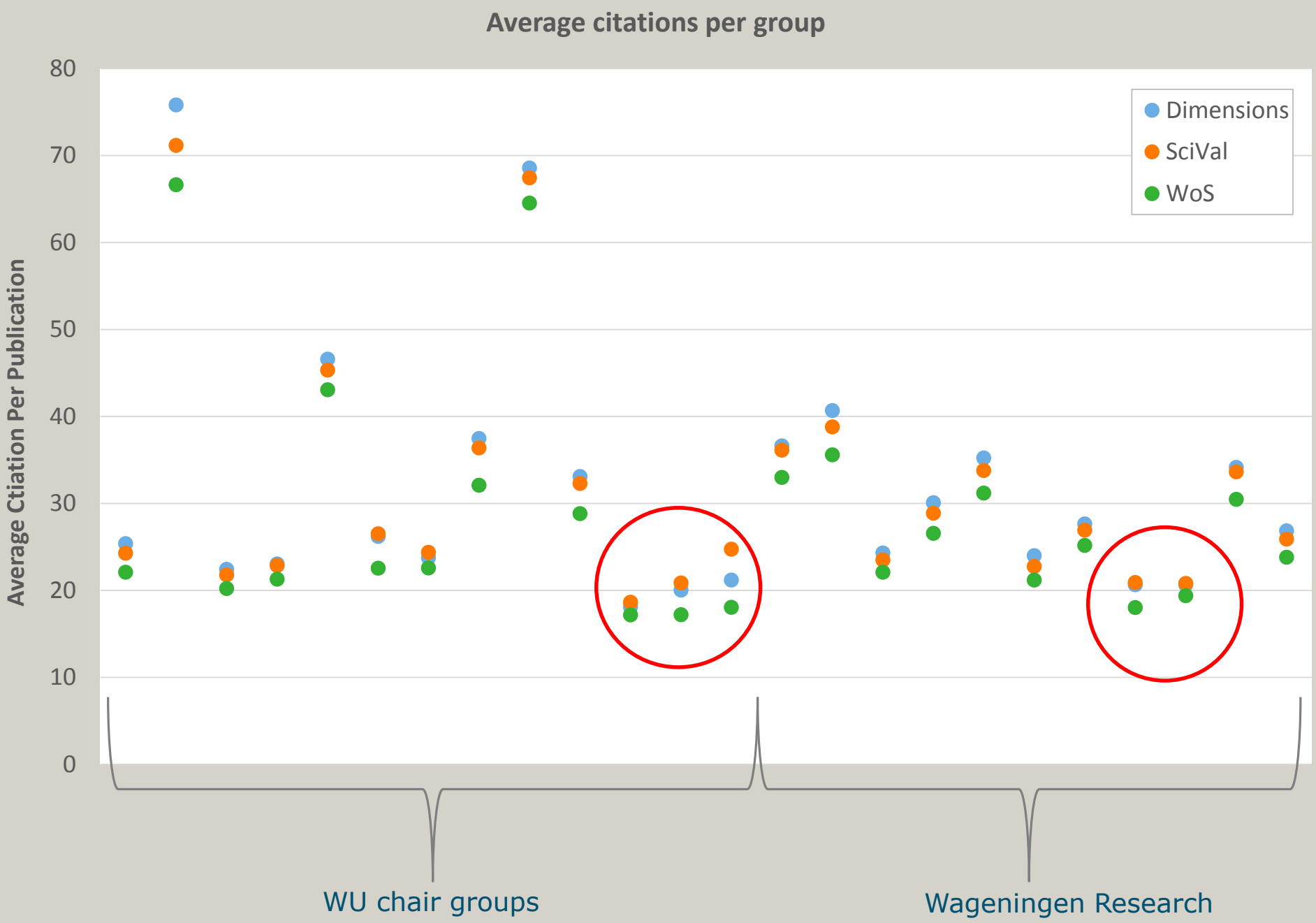
dataset

- publications from 24 chair groups, business units and research institutes
- period 2009-2014
- publications in journals (refereed, non-refereed, conference papers)
- available in all three databases (Web of Science, Scopus, Dimensions)
- > 7000 publications


Total Citations
total citations (n=7278)
300,000
250,000
200,000
150,000
100,000
50,000
0
231 k
251 k
257 k
Web of Science
SciVal
Dimensions


Average citations per group
Average Ctiation Per Publication
80
70
60
50
40
30
20
10
0
Dimensions
SciVal
WoS
WU chair groups
Wageningen Research

Conclusions

- Coverage and citations of Dimensions and SciVal is higher than Staff Publications (WoS/ESI)
- Commercial Databases have more Research Fields than ESI
- Dimensions needs updating of name variations in affiliations for Wageningen University and Research

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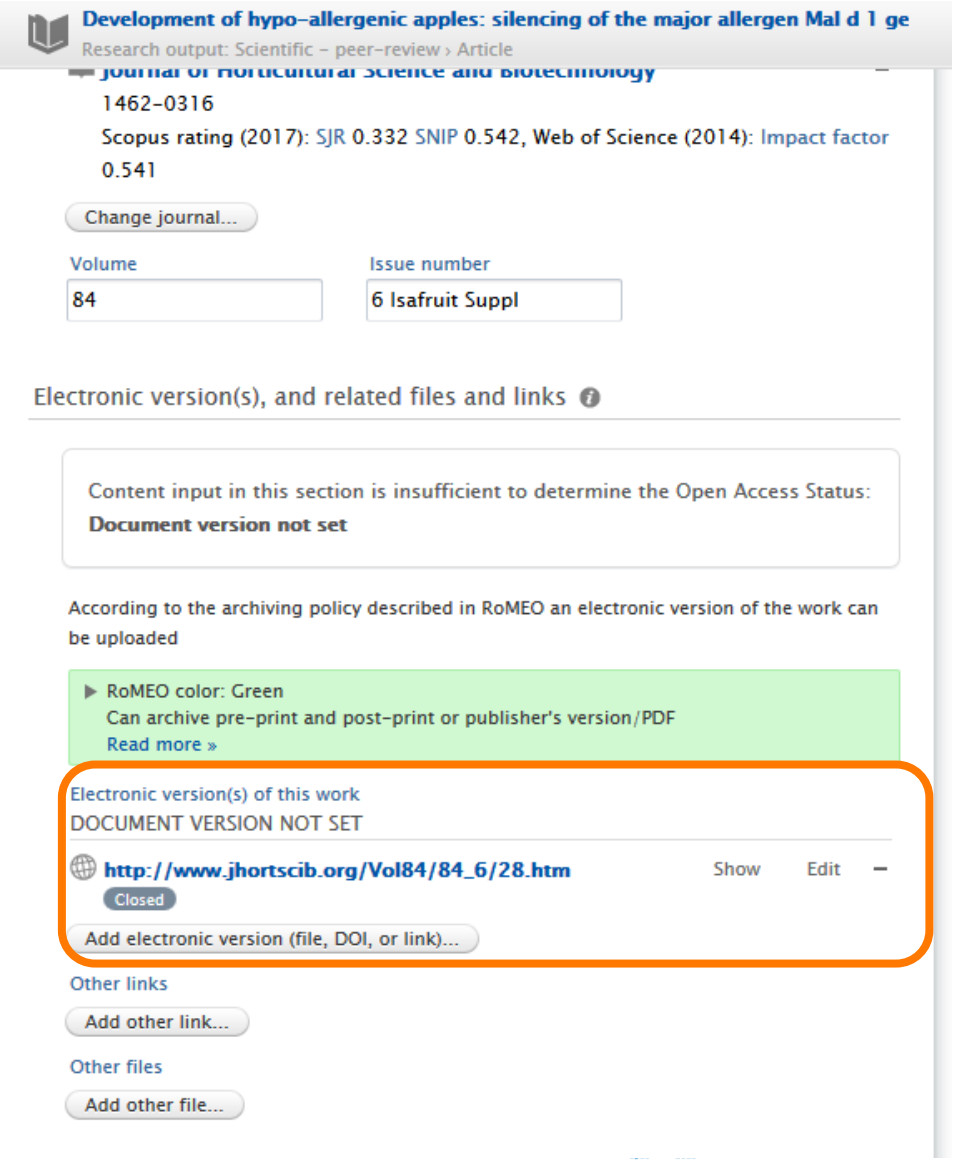
Icon made by Vectors Market from www.flaticon.com

missing doi in CRIS



- set of 7498 records
- initial 7251 with doi (96.7%)
- 103 missing doi's found
- after check: 7354 records with doi (98.1%)

article is missing in database

- small fraction of articles 0.4% is missing in Scopus although the journal is indexed in Scopus

Analyze search results

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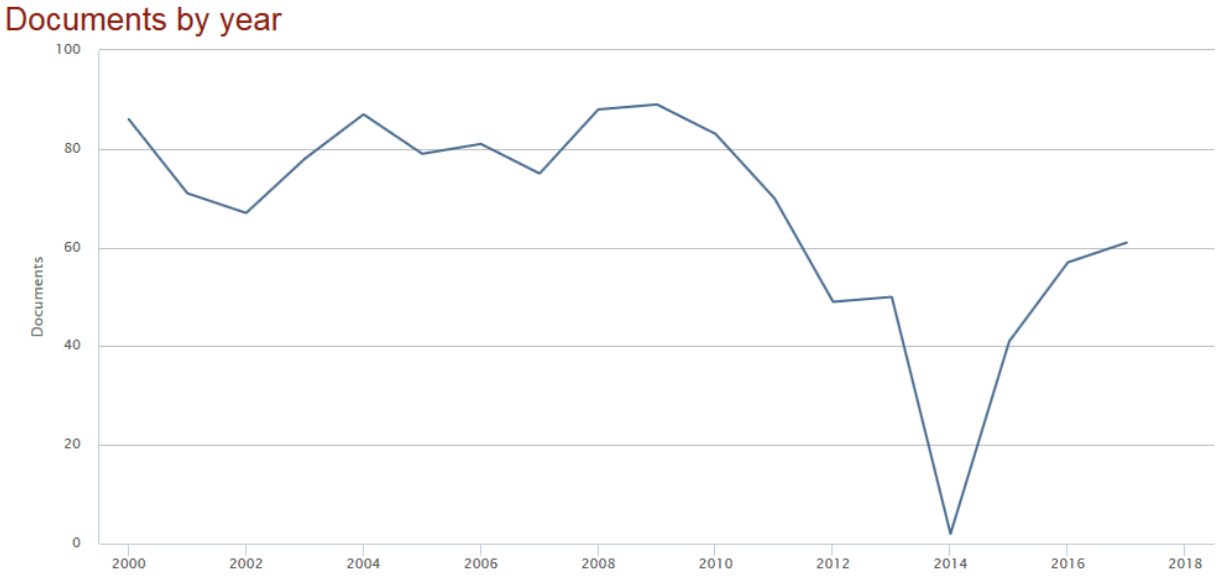
SRCTITLE (seed AND science AND technology) Back to results

1214 document results Select year range to analyze: 2000 to 2017 Analyze

Year | Source | Author | Affiliation | Country/Territory | Document type | Subject area

Year	Documents
2017	61
2016	57
2015	41
2014	2
2013	50
2012	49
2011	70
2010	83
2009	89
2008	88
2007	75
2006	81
2005	79
2004	87
2003	78
2002	67
2001	71
2000	86



Pure matching algorithm makes mistakes (1)

nature COMMUNICATIONS

Search | E-alert | Submit | Login

Altmetric: 31 Citations: 128 More detail »

PDF

Article | OPEN | Published: 07 April 2014

The seco-iridoid pathway from *Catharanthus roseus*

Karel Miettinen, Lemeng Dong, Nicolas Navrot, Thomas Schneider, Vincent Burlat, Jacob Pollier, Lotte Woittiez, Sander van der Krol, Raphaël Lugan, Tina Ilc, Robert Verpoorte, Kirsi-Marja Oksman-Caldentey, Enrico Martinoia, Harro Bouwmeester, Alain Goossens, Johan Memelink & Danièle Werck-Reichhart

Nature Communications **5**, Article number: 3606 (2014) | Download Citation

A Corrigendum to this article was published on 24 June 2014

Sections | Figures | References

Abstract
Introduction
Results
Discussion
Methods
Additional information
Change history
Accessions
References
Acknowledgements
Author information
Supplementary information

Abstract

The (seco)iridoids and their derivatives, the monoterpenoid indole

Pure matching algorithm makes mistakes (1)

The seco-iridoid pathway from Catharanthus roseus
Research output: Scientific - peer-review › Article

Journal

Journal *
Nature Communications Edit −
2041-1723
Scopus rating (2017): SJR 6.582 SNIP 2.912, Web of Science (2014): Impact factor 11.47

Change journal...

Volume: 5
Issue number:

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researchoutputwizard: 171742

Additional source ids
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Scopus: 84903452219 Edit ↑ −
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Nature Communications Open Access
Volume 5, 24 June 2014, Article number 4175

Erratum: The seco-iridoid pathway from Catharanthus roseus (Nature Communications (2014) 5:3606 DOI: 10.1038/ncomms4606) (Erratum)

Miettinen, K., Dong, L., Navrot, N., Schneider, T., Burlat, V., Pollier, J., Woittiez, L., Van Der Krol, S., Lugan, R., Ilc, T., Verpoorte, R., Oksman-Caldentey, K.-M., Martinoia, E., Bouwmeester, H., Goossens, A., Memelink, J., Werck-Reichhart, D.

Abstract

View references (3)

[No abstract available]

Indexed keywords

EMTREE medical terms: erratum error

Pure matching algorithm makes mistakes (2)

Development and Change
Published on behalf of the International Institute of Social Studies, The Hague

Assessment | Full Access

Poverty Alleviation and Smallholder Agriculture: *The Rural Poverty Report 2011*

Jan Douwe van der Ploeg

First published: 21 February 2012 | https://doi.org/10.1111/j.1467-7660.2012.01761.x | Cited by: 7

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Pure matching algorithm makes mistakes (2)

Poverty Alleviation and Smallholder Agriculture: The Rural Poverty Report 2011
Research output: Scientific – peer-review › Article

Journal

Journal *
Development and Change Edit –
0012-155X
Scopus rating (2017): SJR 1.044 SNIP 1.461

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Volume: 43
Issue number: 1

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Other files

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Publication import id
researchoutputwizard: 141927

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Scopus: 84857270221 Edit ↑ –

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Pure matching algorithm makes mistakes (2)

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Development and Change
Volume 43, Issue 1, January 2012, Pages 1-21

Post-neoliberalism in Latin America: Rebuilding and Reclaiming the State after Crisis (Article)

Grugel, J.[a], Riggirozzi, P.[b]

[a]University of Sheffield, United Kingdom
[b]University of Southampton, United Kingdom

Abstract

View references (107)

The idea that states should take on an enhanced role in the pursuit of development is once again becoming increasingly pronounced in the global South. In Latin America, the 'return of the state' is associated with neostructuralism or post-neoliberalism and the rise of the New Left. Post-neoliberal projects of governance seek to retain elements of the previous export-led growth model whilst introducing new mechanisms for social inclusion and welfare. In addition to being a project of growth based on exports and expanded social spending, post-neoliberalism has a distinctive political character. This article explores the pillars of the new governance project, emphasizing the citizenship claims associated with it, along with some of the tensions that arise from export-dependent growth, budget limitations, a weak tax base and the difficulties of managing enhanced social expectations. In making their argument, the authors draw on the examples of Bolivia, Ecuador and Argentina. © 2012 International Institute of Social Studies.

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157 Citations in Scopus
99th Percentile

14.79 Field-Weighted Citation Impact

PlumX Metrics
Usage, Captures, Mentions, Social Media and Citations beyond Scopus.

Cited by 157 documents

The SDGs in middle-income countries: Setting or serving domestic development agendas? Evidence from Ecuador
Horn, P. , Grugel, J.
(2018) World Development

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two records of same article in Scopus

Analyze search results

Show all abstracts Sort on: Cited by (highest)

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	Document title	Authors	Year	Source	Cited by
1	Finding needles in haystacks: linking scientific names, reference specimens and molecular data for Fungi	Schoch, C.L.	2014	Database : the journal of biological databases and curation 2014	73
	View abstract Get it!				
2	Finding needles in haystacks: Linking scientific names, reference specimens and molecular data for Fungi	Schoch, C.L., Robbertse, B., Robert, V., (...), Zhuang, W.-Y., Federhen, S.	2014	Database 2014,bau061	20
	View abstract Get it! Related documents				

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“old” Scopus-IDs in CRIS

Risk assessment for Cd, Cu, Pb, and Zn in urban soils: chemical availability as the
Research output: Scientific – peer-review › Article

Journal

Journal *
Environmental Pollution Edit –
0269-7491
Scopus rating (2017): SJR 1.615 SNIP 1.46

Change journal...

Volume: 183
Issue number:

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- 0.5% of records in set with a Scopus-ID has an “old” ID

External publication ids

Publication import id
researchoutputwizard: 149952

Additional source ids
~~wos: 000327367600020~~ Edit
Scopus: 84869869574 Edit
Add additional source...

wrong meta-data in Scopus

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Journal of Biotechnology

Volume 162, Issues 2–3, 31 December 2012, Pages 197-201

Short communication

Effect of natural and chimeric hae
influenza A virus replication in ba

R. van Wielink [a, b], M.M. Harmsen [a], D.E. Martens [b], O
Moormann [a]

Show more

https://doi.org/10.1016/j.jbiotec.2012.10.005

Abstract

Baby hamster kidney (BHK21) cells are used to
veterinary diseases, including rabies and foot-a
influenza virus strains replicate efficiently in BH
influenza vaccine production is prohibited by the
model strain A/PR/8/34 [H1N1] (PR8).

We now show that in contrast to PR8, the relate
efficiently in BHK21 cells. This difference is dete

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Journal of Biotechnology
Volume 162, Issue 2-3, 1 January 1970, Pages 197-201

Effect of natural and chimeric haemagglutinin genes on influenza A virus replication in baby hamster kidney cells (Article)

van Wielink, R.[ab], Harmsen, M.M.[a], Martens, D.E.[b], de Leeuw, O.S.[a], Peeters, B.P.H.[a], Wijffels, R.H.[b], Moormann, R.J.M.[a]

[a]Central Veterinary Institute of Wageningen UR (CVI), P.O. Box 65, Lelystad, AB, Netherlands
[b]Wageningen University, Bioprocess Engineering, P.O. Box 8129, Wageningen, EV, Netherlands

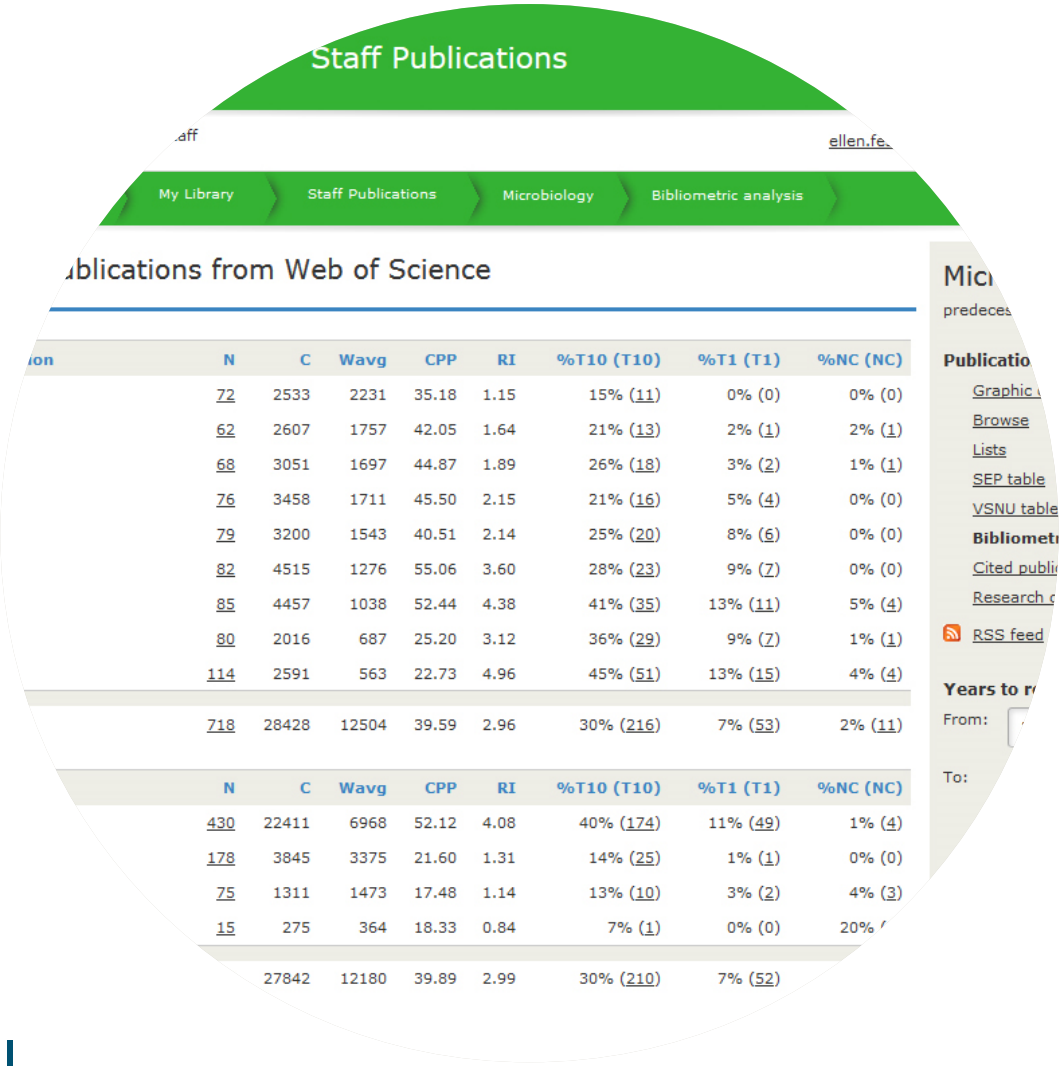
Abstract View references (22

Baby hamster kidney (BHK21) cells are used to produce vaccines against various viral veterinary diseases, including rabies and foot-and-mouth-disease. Although particular influenza virus strains replicate efficiently in BHK21 cells the general use of these cells for influenza vaccine production is prohibited by the poor replication of most strains, including model strain A/PR/8/34 [H1N1] (PR8). We now show that in contrast to PR8, the related strain A/WSN/33 [H1N1] (WSN) replicates efficiently in BHK21 cells. This difference is determined by the haemagglutinin (HA) protein since reciprocal reassortant viruses with swapped HAs behave similarly with respect to growth on BHK21 cells as the parental virus from which their HA gene is derived. The ability or inability of six other influenza virus strains to grow on BHK21 cells appears to be similarly dependent on the nature of the HA gene since reassortant PR8 viruses containing the HA of these strains grow to similar titres as the parental virus from which the HA gene was derived. However, the growth to low titres of a seventh influenza strain was not due to the nature of the HA gene since a reassortant PR8 virus containing this HA grew efficiently on

recommendations

- important to get the right ID's in your CRIS
  - use API (e.g. Web of Science)
- regularly check EID's (Scopus)
- check Pure matching algorithm
  - EID's matched with publications types not available in Scopus
- compare metadata CRIS and databases

Thank you!



on	N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
	72	2533	2231	35.18	1.15	15% (11)	0% (0)	0% (0)
	62	2607	1757	42.05	1.64	21% (13)	2% (1)	2% (1)
	68	3051	1697	44.87	1.89	26% (18)	3% (2)	1% (1)
	76	3458	1711	45.50	2.15	21% (16)	5% (4)	0% (0)
	79	3200	1543	40.51	2.14	25% (20)	8% (6)	0% (0)
	82	4515	1276	55.06	3.60	28% (23)	9% (7)	0% (0)
	85	4457	1038	52.44	4.38	41% (35)	13% (11)	5% (4)
	80	2016	687	25.20	3.12	36% (29)	9% (7)	1% (1)
	114	2591	563	22.73	4.96	45% (51)	13% (15)	4% (4)
	718	28428	12504	39.59	2.96	30% (216)	7% (53)	2% (11)

N	C	Wavg	CPP	RI	%T10 (T10)	%T1 (T1)	%NC (NC)
430	22411	6968	52.12	4.08	40% (174)	11% (49)	1% (4)
178	3845	3375	21.60	1.31	14% (25)	1% (1)	0% (0)
75	1311	1473	17.48	1.14	13% (10)	3% (2)	4% (3)
15	275	364	18.33	0.84	7% (1)	0% (0)	20%
	27842	12180	39.89	2.99	30% (210)	7% (52)	

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