

Comparison of output quality

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Supplementary table 8a: Overview table

Sl no.	Search tools	Primary output		Bio-entities		Statistics		Sorting		Visualization		Other aspects of output quality		Time taken final score		Overall output quality	
		Total (22)	%	Total (23)	%	Total (6)	%	Total (12)	%	Total (5.5)	%	Total (5)	%	Total (7)	%	Total (80.5)	%
1	ALIBABA	5.4	24.7	15.6	67.8	0.0	0.0	1.5	12.5	5.3	96.4	0.0	0.0	4.5	64.3	32.3	40.1
2	askMEDLINE	3.9	17.7	0.0	0.0	0.0	0.0	1.5	12.5	0.0	0.0	0.3	6.0	6.5	92.9	12.2	15.2
3	BioAsk	5.2	23.7	16.9	73.5	3.0	50.0	5.6	46.7	3.5	63.6	2.2	44.0	6.0	85.7	42.4	52.7
4	BioIE	4.6	20.7	0.8	3.5	0.0	0.0	1.5	12.5	0.0	0.0	0.0	0.0	5.5	78.6	12.4	15.4
5	Brij.in	6.2	28.2	0.0	0.0	0.0	0.0	0.1	0.8	0.0	0.0	0.1	2.0	7.0	100.0	13.4	16.6
6	CiteXplore	5.2	23.7	3.4	14.8	0.0	0.0	3.9	32.5	0.0	0.0	1.0	20.0	5.5	78.6	19.0	23.6
7	ClusterMed	5.3	24.0	1.6	7.0	0.0	0.0	1.6	13.3	0.0	0.0	0.3	6.0	5.0	71.4	13.8	17.1
8	EBIMed	9.5	43.0	12.2	53.0	0.0	0.0	0.2	1.7	1.9	34.5	0.0	0.0	3.5	50.0	27.3	33.9
9	eTBLAST	1.6	7.1	0.1	0.4	3.5	58.3	0.2	1.7	0.2	3.6	2.0	40.0	1.0	14.3	8.6	10.7

10	Google Scholar	8.5	38.8	0.0	0.0	0.0	0.0	0.2	1.7	0.0	0.0	0.1	2.0	7.0	100.0	15.8	19.6
11	GoPubMed	8.6	39.1	14.1	61.3	5.0	83.3	1.6	13.3	3.4	61.8	0.7	14.0	5.5	78.6	38.9	48.3
12	HighWire Press	15.4	70.1	0.0	0.0	0.0	0.0	3.9	32.5	4.5	81.8	2.2	44.0	5.5	78.6	31.5	39.1
13	PubFocus	6.6	30.0	2.1	9.1	6.0	100.0	8.0	66.7	1.1	20.0	0.0	0.0	5.5	78.6	29.3	36.4
14	PubMed	11.1	50.5	0.5	2.2	0.0	0.0	3.7	30.8	0.0	0.0	3.4	68.0	6.0	85.7	24.7	30.7
15	PubMed Assistant	5.6	25.5	1.0	4.3	0.0	0.0	5.9	49.2	0.0	0.0	0.4	8.0	0.0	0.0	12.9	16.0
16	PubMed Central	3.1	14.1	0.0	0.0	0.0	0.0	2.9	24.2	0.0	0.0	3.0	60.0	6.0	85.7	15.0	18.6
17	PubMed Interact	7.8	35.5	0.1	0.4	0.0	0.0	1.5	12.5	0.0	0.0	0.2	4.0	6.0	85.7	15.6	19.4
18	ReleMed	4.7	21.4	0.2	0.9	0.0	0.0	0.2	1.7	0.0	0.0	0.7	14.0	6.0	85.7	11.8	14.7
19	Scirus	7.3	33.4	0.0	0.0	0.0	0.0	3.9	32.5	0.0	0.0	0.8	16.0	6.0	85.7	18.0	22.4
20	Scopus	11.6	52.6	1.0	4.3	3.2	53.3	8.0	66.7	1.5	27.3	3.9	78.0	6.0	85.7	35.2	43.7
21	XplorMed	0.3	1.2	1.0	4.3	0.0	0.0	0.0	0.0	0.2	3.6	0.0	0.0	5.5	78.6	7.0	8.7

Comparison of output quality
Supplementary table 8b: Primary output quality

Sl. no.	Search engines	Display of number of hits retrieved	Number of hits displayed / page	Display of sentence or part of sentence with query term retrieved	Query terms highlighted	Abstracts for all citations can be viewed at a time	Related articles displayed	Free full text status displayed	Publication type (like reviews) availability displayed	Options for navigating through results	Citation analysis	Total	%
Maximum scores		2	1	2	2	2	2	2	2	1	6	22	
1	ALIBABA	0.1	0.5	2.0	0.5	0.0	1.3	0.0	0.0	1.0	0.0	5.4	24.7
2	askMEDLINE	2.0	0.2	0.0	0.0	0.0	1.5	0.0	0.0	0.2	0.0	3.9	17.7
3	BioAsk	0.6	0.1	0.0	2.0	0.0	1.5	0.0	0.0	1.0	0.0	5.2	23.7
4	BioIE	0.3	0.7	1.0	0.1	2.0	0.0	0.0	0.0	0.5	0.0	4.6	20.7
5	Brij.in	1.9	0.1	2.0	2.0	0.0	0.0	0.0	0.0	0.2	0.0	6.2	28.2
6	CiteXplore	0.6	0.2	2.0	0.0	0.0	0.0	0.5	1.8	0.1	0.0	5.2	23.7

3	BioAsk	0.4	0.8	0.8	0.8	0.8	0.8	0.3	0.3	0.3	0.3	0.8	0.8	4.0	4.0	1.7	16.9	73.5
4	BioIE	0.2	0.2	0.1	0.0	0.1	0.0	0.0	0.0	0.0	0.1	0.1	0.0	0.0	0.0	0.0	0.8	3.5
5	Brij.in	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	CiteXplore	0.4	0.1	0.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.0	3.4	14.8
7	ClusterMed	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	7.0
8	EBIMed	0.4	0.8	0.8	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0	0.0	4.0	3.0	1.6	12.2	53.0
9	eTBLAST	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
10	Google Scholar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	GoPubMed	2.0	0.5	0.6	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	4.0	1.0	0.0	14.1	61.3
12	HighWire Press	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	PubFocus	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.0	0.0	0.0	2.1	9.1
14	PubMed	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	2.2
15	PubMed Assistant	0.4	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	1.0	4.3
16	PubMed Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	PubMed Interact	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.4
18	ReleMed	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.9
19	Scirus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	Scopus	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.3
21	XplorMed	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	4.3

**Comparison of output quality
Supplementary table 8d: sorting efficiency**

Sorting by												
S. no.	Search engines	date	relevance	author	journal title	forward citations / cited by	journal rank	publication rank	PMID	title	Total	%
	Maximum score	2	2	1	1	2	1	1	1	1	12	

1	ALIBABA	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.5
2	askMEDLINE	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.5
3	BioAsk	1.9	2.0	0.8	0.9	0.0	0.0	0.0	0.0	0.0	5.6	46.7
4	BioIE	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.5
5	Brij.in	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.8
6	CiteXplore	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	32.5
7	ClusterMed	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	13.3
8	EBIMed	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7
9	eTBLAST	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7
10	Google Scholar	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7
11	GoPubMed	1.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	13.3
12	HighWire Press	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	32.5
13	PubFocus	2.0	0.0	1.0	0.0	2.0	1.0	1.0	0.0	1.0	8.0	66.7
14	PubMed	1.9	0.0	0.9	0.9	0.0	0.0	0.0	0.0	0.0	3.7	30.8
15	PubMed Assistant	2.0	0.0	0.9	1.0	0.0	0.0	0.0	1.0	1.0	5.9	49.2
16	PubMed Central	1.9	0.1	0.0	0.9	0.0	0.0	0.0	0.0	0.0	2.9	24.2
17	PubMed Interact	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	12.5
18	ReleMed	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	1.7
19	Scirus	1.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.9	32.5
20	Scopus	2.0	2.0	1.0	1.0	2.0	0.0	0.0	0.0	0.0	8.0	66.7
21	XplorMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Comparison of output quality
Supplementary table 8e: Statistical features

S. no.	Search engines	Publication trends over the years	Top publishing authors	Top publishing sources (journals)	Top cities or countries publishing on the topic	Top publishing years	Other features	Total	%
Maximum score		1	1	1	1	1	1	6	
1	ALIBABA	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	askMEDLINE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	BioAsk	0.0	1.0	1.0	0.0	1.0	0.0	3.0	50.0
4	BioIE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	Brij.in	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	CiteXplore	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	ClusterMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	EBIMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	eTBLAST	1.0	1.0	1.0	0.0	0.5	0.0	3.5	58.3
10	Google Scholar	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	GoPubMed	1.0	1.0	1.0	1.0	1.0	0.0	5.0	83.3
12	HighWire Press	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	PubFocus	1.0	1.0	1.0	1.0	1.0	1.0	6.0	100.0
14	PubMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	PubMed Assistant	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	PubMed Central	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	PubMed Interact	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	ReleMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	Scirus	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	Scopus	0.8	0.8	0.8	0.8	0.0	0.0	3.2	53.3
21	XplorMed	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Comparison of output quality

Supplementary table 8f: Visualization

S. no.	Search engines	Tabular representation/ tree view of entities or frequently occurring terms in results	Graphical display of entities or frequently occurring terms in results	Other items displayed	Total	%
Maximum score		2	2	1.5	5.5	
1	ALIBABA	1.8	2.0	1.5	5.3	96.4
2	askMEDLINE	0.0	0.0	0.0	0.0	0.0
3	BioAsk	2.0	1.5	0.0	3.5	63.6
4	BioIE	0.0	0.0	0.0	0.0	0.0
5	Brij.in	0.0	0.0	0.0	0.0	0.0
6	CiteXplore	0.0	0.0	0.0	0.0	0.0
7	ClusterMed	0.0	0.0	0.0	0.0	0.0
8	EBIMed	1.9	0.0	0.0	1.9	34.5
9	eTBLAST	0.0	0.0	0.2	0.2	3.6
10	Google Scholar	0.0	0.0	0.0	0.0	0.0
11	GoPubMed	1.9	0.0	1.5	3.4	61.8
12	HighWire Press	1.9	1.6	1.0	4.5	81.8
13	PubFocus	0.6	0.0	0.5	1.1	20.0
14	PubMed	0.0	0.0	0.0	0.0	0.0
15	PubMed Assistant	0.0	0.0	0.0	0.0	0.0
16	PubMed Central	0.0	0.0	0.0	0.0	0.0
17	PubMed Interact	0.0	0.0	0.0	0.0	0.0
18	ReleMed	0.0	0.0	0.0	0.0	0.0
19	Scirus	0.0	0.0	0.0	0.0	0.0
20	Scopus	0.0	0.0	1.5	1.5	27.3
21	XplorMed	0.2	0.0	0.0	0.2	3.6

Comparison of output quality
Supplementary table 8g: Other aspects of output

S. no.	Search engines	Automatic follow-up of update of new results	Links to other search tools or databases	Forum for collaborating with authors	Total	%
Maximum score		2	2	1	5	
1	ALIBABA	0.0	0.0	0.0	0.0	0.0
2	askMEDLINE	0.0	0.3	0.0	0.3	6.0
3	BioAsk	0.0	1.2	1.0	2.2	44.0
4	BioIE	0.0	0.0	0.0	0.0	0.0
5	Brij.in	0.0	0.1	0.0	0.1	2.0
6	CiteXplore	0.0	1.0	0.0	1.0	20.0
7	ClusterMed	0.0	0.3	0.0	0.3	6.0
8	EBIMed	0.0	0.0	0.0	0.0	0.0
9	eTBLAST	2.0	0.0	0.0	2.0	40.0
10	Google Scholar	0.0	0.1	0.0	0.1	2.0
11	GoPubMed	0.0	0.2	0.8	0.7	14.0
12	HighWire Press	2.0	0.2	0.0	2.2	44.0
13	PubFocus	0.0	0.0	0.0	0.0	0.0
14	PubMed	2.0	1.4	0.0	3.4	68.0
15	PubMed Assistant	0.0	0.4	0.0	0.4	8.0
16	PubMed Central	2.0	1.0	0.0	3.0	60.0
17	PubMed Interact	0.0	0.2	0.0	0.2	4.0
18	ReleMed	0.0	0.7	0.0	0.7	14.0
19	Scirus	0.0	0.8	0.0	0.8	16.0
20	Scopus	2.5	0.4	0.9	3.9	78.0

21	XplorMed	0.0	0.0	0.0	0.0	0.0
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S.no.	Search tools	Speed (time taken for searching in seconds)	Total score (7)	%
1	ALIBABA	31.58	4.5	64.3
2	AskMedline	4.28	6.5	92.9
3	BioAsk	7.52	6.0	85.7
4	BioIE	19.80	5.5	78.6
5	Brij.in	2.41	7.0	100.0
6	CiteXplore	10.12	5.5	78.6
7	ClusterMed	23.10	5.0	71.4
8	EBIMed	55.03	3.5	50.0
9	eTBLAST	170.52	1.0	14.3
10	Google Scholar	2.45	7.0	100.0
11	GoPubMed	18.05	5.5	78.6
12	HighWire Press	12.35	5.5	78.6
13	Pubfocus	13.50	5.5	78.6
14	PubMed	9.53	6.0	85.7
15	PubMed Assistant	919.17	0.0	0.0
16	PubMed Central	5.12	6.0	85.7
17	PubMed Interact	6.23	6.0	85.7
18	ReleMed	8.07	6.0	85.7
19	Scirus	5.56	6.0	85.7
20	Scopus	6.53	6.0	85.7
21	XplorMed	13.48	5.5	78.6

**Comparison of output quality
Supplementary table 8h: Speed
(Relative time taken for results
display)**