

## Round 5 results — Run jlbasernd5-jlQErnd5 submitted from julielab

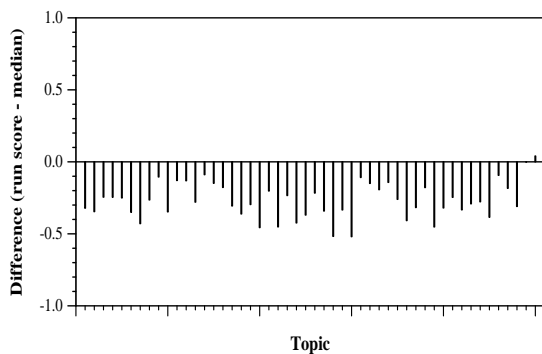
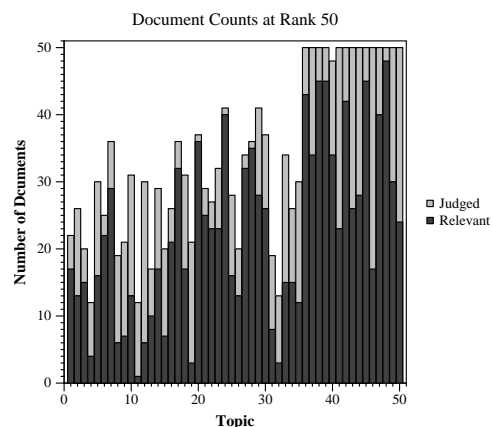
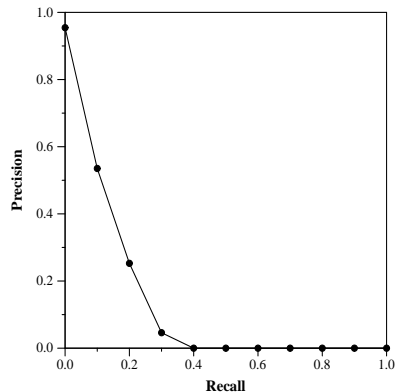
### Run Description

Reciprocal rank fusion approach with the following settings: Elasticsearch with BM25 where  $k1=3.9$  and  $b=0.55$  (settings taken from SLEDGE paper). Index documents are the document paragraphs. Fused run 1: Stop word filtered query as mandatory clause. Stop word filtered question and narrative as optional clause. Fused run 2: Manually added synonyms to covid-indicating words ("coronavirus") and some model organisms.

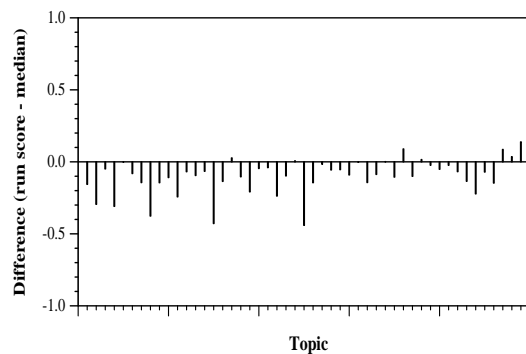
Summary Statistics	
Run ID	jlbasernd5-jlQErnd5
Topic type	automatic
Contributed to judgment sets?	yes

Overall measures	
Number of topics	50
Total number retrieved	10429
Total relevant	10910
Total relevant retrieved	2361
MAP	0.1258
Mean Bpref	0.1958
Mean NDCG@20	0.5765
Mean RBP(p=0.5)	0.7419 +0.0031

Document Level Averages	
	Precision
At 5 docs	0.7760
At 10 docs	0.7060
At 15 docs	0.6467
At 20 docs	0.5990
At 30 docs	0.5280
R-Precision	
Exact	0.1982



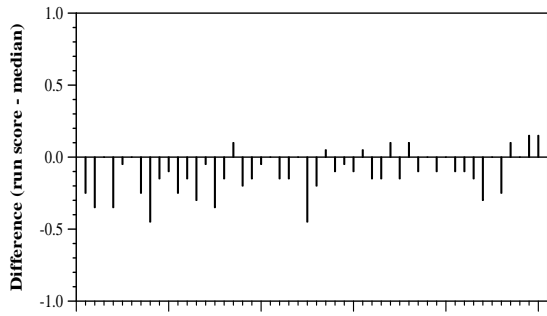
Per-topic difference from median bpref for all Round 4 runs



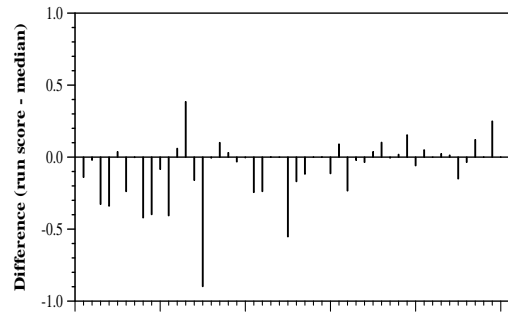
Per-topic difference from median NDCG@20 for all Round 4 runs

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Per-topic difference from median P@20 for all Round 4 runs



Per-topic difference from median RBP( $p=0.5$ ) for all Round 4 runs