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Web data 1: Search queries

The screenshot shows the PubMed search interface. At the top, there's a search bar with 'PubMed' selected and the query 'robust'. Below the search bar, there are options for 'Create RSS', 'Create alert', and 'Advanced'. The search results are displayed in a list format, with the first result highlighted. A 'Results by year' chart is visible on the right side of the page, which is highlighted with a red box. The chart shows a bar graph representing the frequency of results over time, with a 'Download CSV' button below it.

Pubmed screenshot (November 19th, 2015). Shows example query for the word 'robust'. If the search volume is high enough a box will appear on the right – entitled 'Results by year'; marked with red – which allows to download yearly frequency counts as a comma-separated file.

Combined query with one or more positive words in abstracts

(Amazing OR Assuring OR Astonishing OR Bright OR Creative OR Encouraging OR Enormous OR Excellent OR Favorable OR Groundbreaking OR Hopeful OR Innovative OR Inspiring OR Inventive OR Novel OR Phenomenal OR Prominent OR Promising OR Reassuring OR Remarkable OR Robust OR Spectacular OR Supportive OR Unique OR Unprecedented)

Combined query with one or more negative words in abstracts

(Detrimental OR Disappointing OR Disconcerting OR Discouraging OR Disheartening OR Disturbing OR Frustrating OR Futile OR Hopeless OR Impossible OR Inadequate OR Ineffective OR Insignificant OR Insufficient OR Irrelevant OR Low-quality OR Mediocre OR Pessimistic OR Substandard OR Unacceptable OR Unpromising OR Unsatisfactory OR Unsatisfying OR Useless OR Weak OR Worrisome)

Combined query with one or more neutral words in abstracts

(Animal OR Blood OR Bone OR Brain OR Condition OR Design OR Disease OR Experiment OR Human OR Intervention OR Kidney OR Liver OR Man OR Men OR Muscle OR Patient OR

Prospective OR Rodent OR Significant OR Skin OR Skull OR Treatment OR Vessel OR Woman OR Women)

Combined query with one or more random words in abstracts

(manager OR substance OR law OR dust OR bite OR butter OR fold OR mind OR protect OR insurance OR test OR father OR letter OR friend OR power OR edge OR linen OR scale OR bread OR statement OR weather OR smell OR glass OR food OR level OR steam OR soap OR help OR rule OR wind OR interest OR purpose OR hole OR fight OR representative OR danger OR prose OR change OR discussion OR company OR direction OR balance OR organisation OR size OR trade OR rice OR invention OR heat OR road OR mountain OR electric OR good OR natural OR sweet OR dead OR strange OR thin OR political OR open OR bitter OR dark OR complex OR warm OR full OR red OR kind OR possible OR strong OR free OR quick OR slow OR cut OR narrow OR certain OR dependent OR flat OR acid OR fixed OR responsible OR false OR great OR like OR green OR cold OR poor OR low OR opposite OR bright OR military OR fertile OR second OR left OR wrong OR hanging OR gray OR mixed OR angry OR foolish OR loose OR late)

Query to combine with other queries to select abstract within specific journals only

(ANN INTERN MED[journal]) OR (ANNU REV IMMUNOL[journal]) OR (ARCH INTERN MED[journal]) OR (BMJ[journal]) OR (CANCER CELL[journal]) OR (CELL[journal]) OR (IMMUNITY[journal]) (JAMA[journal]) OR (LANCET[journal]) OR (BLOOD[journal]) OR (NAT NEUROSCI[journal]) OR (NAT REV CANCER[journal]) OR (NAT REV GENET[journal]) OR (NAT REV IMMUNOL[journal]) OR (NAT REV NEUROSCI[journal]) OR (NATURE[journal]) OR (N ENGL J MED[journal]) OR (PLOS MED[journal]) OR (P NATL ACAD SCI U S A[journal]) OR (SCIENCE[journal])

Query to combine with other queries to select abstract within top 20 journals listed in Pubmed, ranked by impact factor [Journal Citation Reports 2014 | Thomson Reuters]

(CA-CANCER J CLIN[journal]) OR (N ENGL J MED[journal]) OR (CHEM REV[journal]) OR (LANCET[journal]) OR (NAT REV DRUG DISCOV[journal]) OR (NAT BIOTECHNOL[journal]) OR (NATURE[journal]) OR (ANNU REV IMMUNOL[journal]) OR (NAT REV MOL CELL BIOL[journal]) OR (NAT REV CANCER[journal]) OR (NAT REV GENET[journal]) OR (NAT MATER[journal]) OR (NAT REV IMMUNOL[journal]) OR (NAT NANOTECHNOL[journal]) OR

(SCIENCE[journal]) OR (CHEM SOC REV[journal]) OR (ANNU REV ASTRON
ASTROPHYS[journal]) OR (NAT PHOTONICS[journal]) OR (CELL[journal]) OR (JAMA[journal])

**Query to combine with other queries to select abstract within top 20 medical journals listed in
Pubmed, ranked by impact factor [Journal Citation Reports 2014 | Thomson Reuters]**

(N ENGL J MED[journal]) OR (LANCET[journal]) OR (JAMA[journal]) OR (ANN INTERN
MED[journal]) OR (BMJ[journal]) OR (ARCH INTERN MED[journal]) OR (PLOS MED[journal])
OR (JAMA INTERN MED[journal]) OR (BMC MED[journal]) OR (J CACHEXIA SARCOPENIA
MUSCLE[journal]) OR (MAYO CLIN PROC[journal]) OR (J INTERN MED[journal]) OR
(COCHRANE DATABASE SYST REV[journal]) OR (CAN MED ASSOC J[journal]) OR
(MEDICINE[journal]) OR (ANN FAM MED[journal]) OR (TRANSL RES[journal]) OR (AM J
MED[journal]) OR (AM J PREV MED[journal]) OR (MED J AUST[journal])

**Query to combine with other queries to select abstract with authors from within English-
speaking countries (use NOT operator to invert result)**

("UK"[ad] OR "United Kingdom"[ad] OR "Great Britain"[ad] OR "US"[ad] OR "USA"[ad] OR
"United States"[ad] OR "United States of America"[ad] OR "Australia"[ad] OR "New Zealand"[ad])

Query to get total number of papers for each year

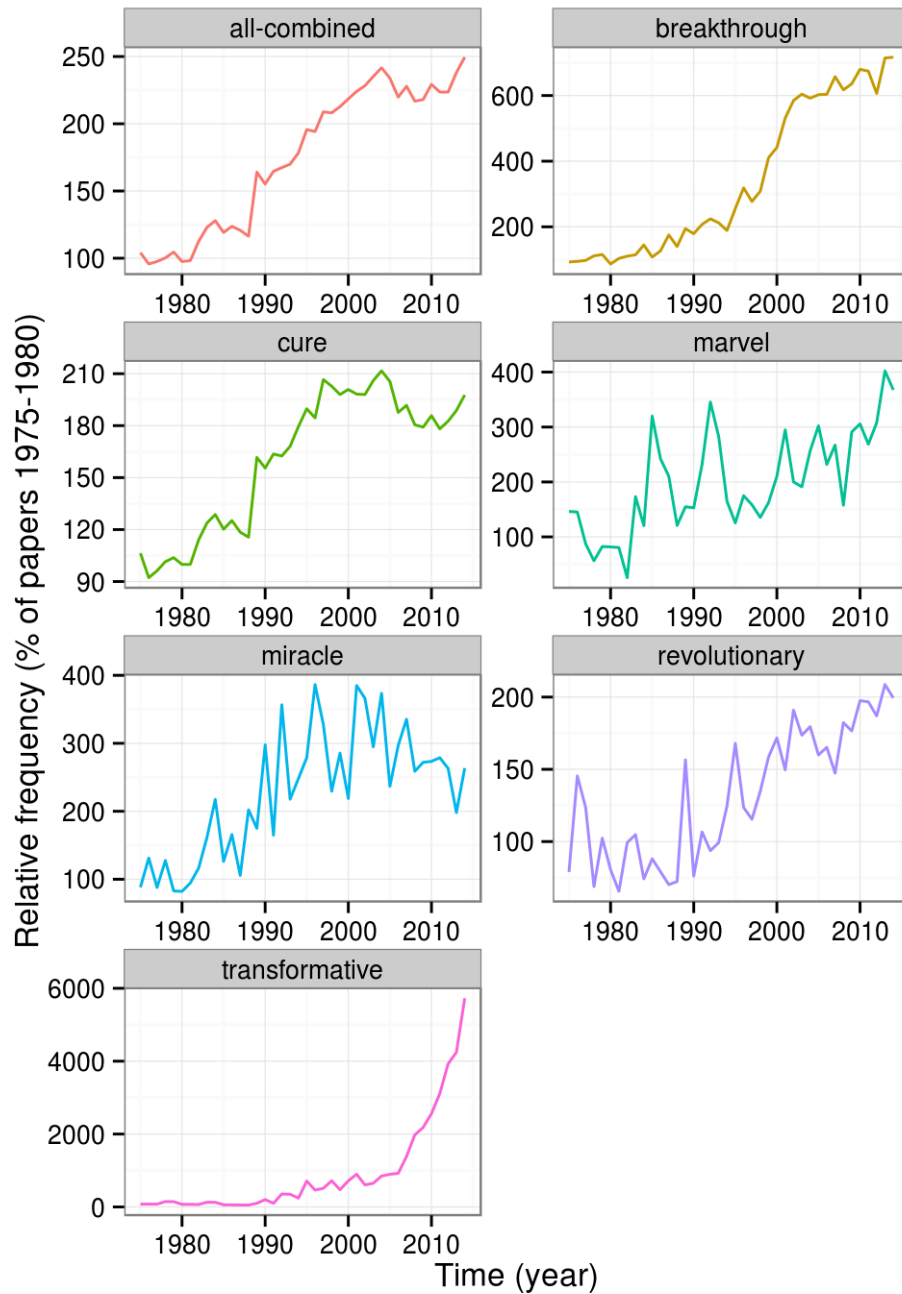
""[journal]

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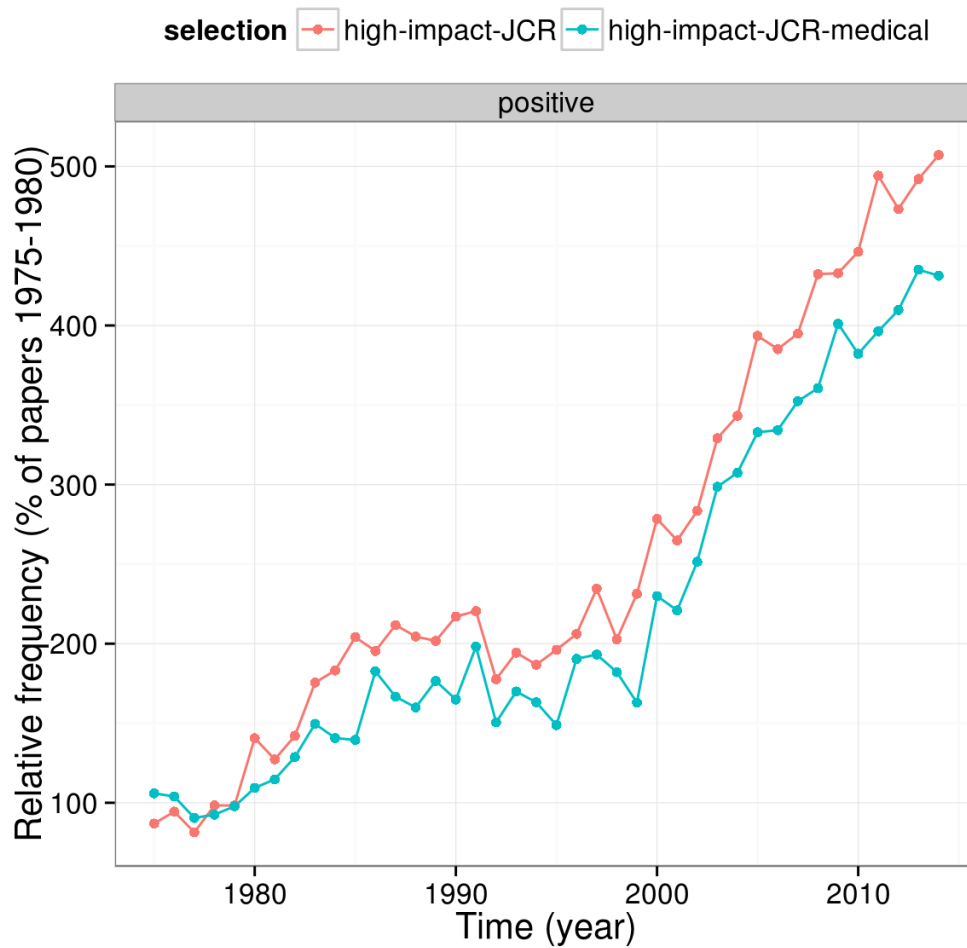
Consensus-based list of top 20 journals	
<ol style="list-style-type: none"> 1. Annals of Internal Medicine 2. Annual Reviews in Immunology 3. Archives of Internal Medicine 4. Blood 5. British Medical Journal 6. Cancer Cell 7. Cell 8. Immunity 9. JAMA 10. Lancet 	<ol style="list-style-type: none"> 11. Nature 12. Nature Neuroscience 13. Nature Reviews Cancer 14. Nature Reviews Genetics 15. Nature Reviews Immunology 16. Nature Reviews Neuroscience 17. New England Journal of Medicine 18. PLoS Medicine 19. PNAS 20. Science
High Impact JCR: All	
<ol style="list-style-type: none"> 1. CA: A cancer journal for clinicians 2. New England Journal of Medicine 3. Chemical Reviews 4. Lancet 5. Nature Reviews Drug Discovery 6. Nature Biotechnology 7. Nature 8. Annual Review of Immunology 9. Nature Reviews Molecular Cell Biology 10. Nature Reviews Cancer 	<ol style="list-style-type: none"> 11. Nature Reviews Genetics 12. Nature Materials 13. JAMA 14. Nature Reviews Immunology 15. Nature Nanotechnology 16. Science 17. Chemical Society Reviews 18. Annual Review of Astronomy and Astrophysics 19. Nature Photonics 20. Cell
High Impact JCR: Medical	
<ol style="list-style-type: none"> 1. New England Journal of Medicine 2. Lancet 	<ol style="list-style-type: none"> 11. Mayo Clinic Proceedings 12. Journal of Internal Medicine

<ul style="list-style-type: none"> 3. JAMA 4. Annals of Internal Medicine 5. British Medical Journal 6. Archives of Internal medicine 7. PLOS Medicine 8. JAMA Internal Medicine 9. BMC Medicine 10. Journal of Cachexia, Sarcopenia and Muscle 	<ul style="list-style-type: none"> 13. Cochrane Database of Systematic Reviews 14. Canadian Medical Association Journal 15. Medicine 16. The Annals of Family Medicine 17. Translational Research 18. American Journal of Medicine 19. American Journal of Preventive Medicine 20. Medical Journal of Australia
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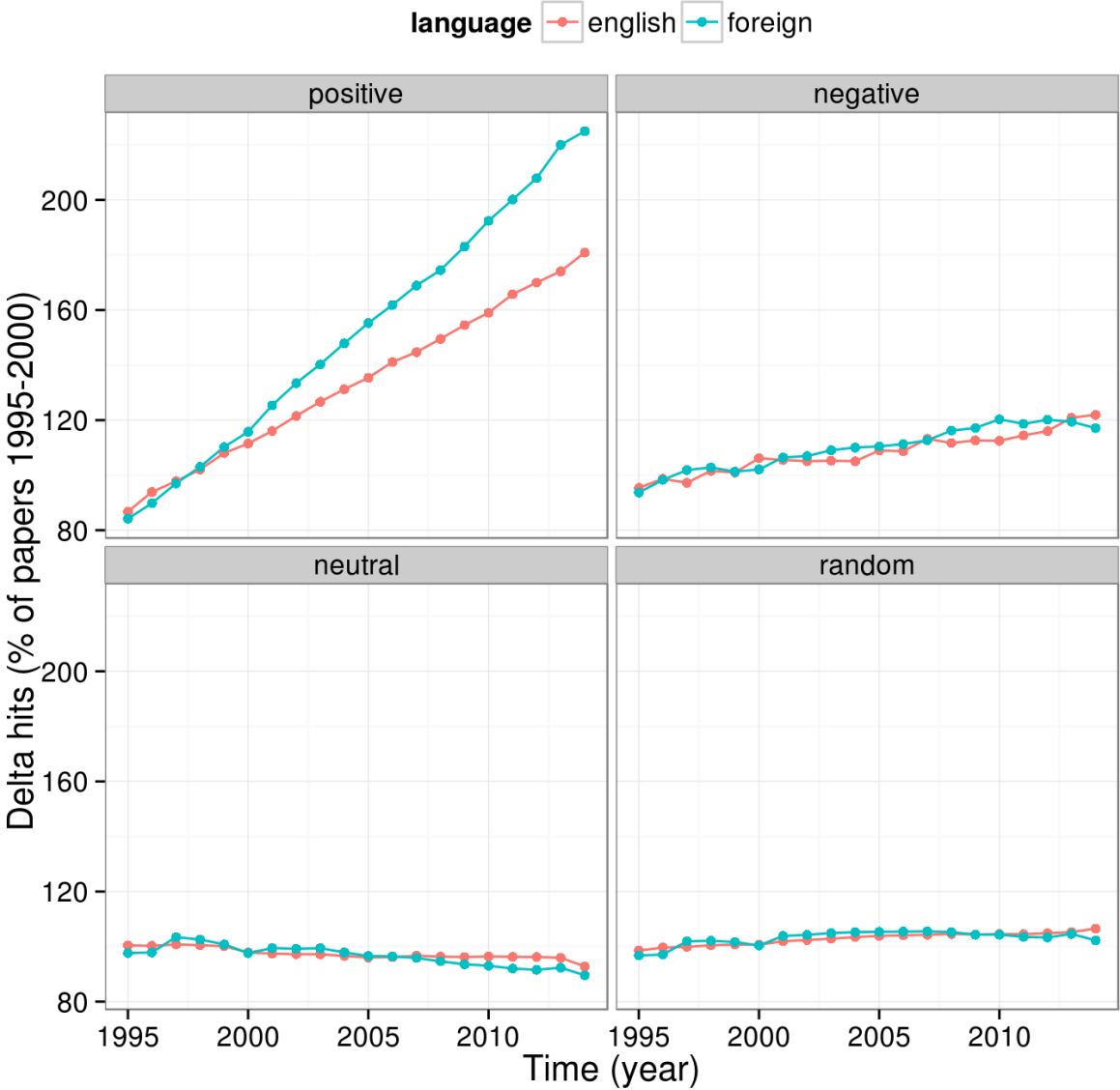
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