

BIBLIOMETRICS

a short introduction

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NKI-AVL

Het Nederlands Kanker Instituut
Antoni van Leeuwenhoek Ziekenhuis



Bibliometrics

- Citation counting (articles)
- Impact factor (journals)
- Other indices (authors e.g. h-index)
- Library statistics

- Scientometrics
 - Sociology of the Sciences
 - Science dynamics
 - Science and Technology Indicators

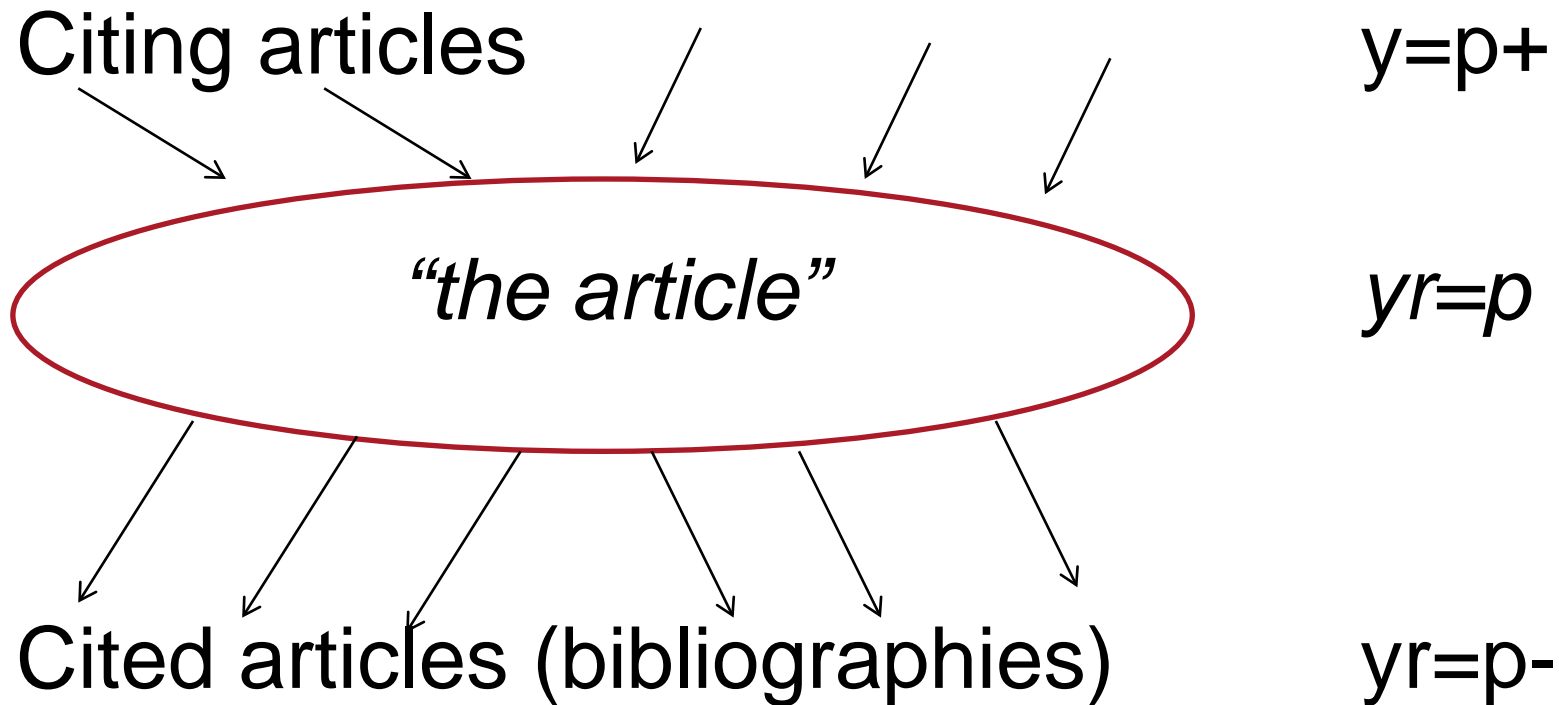
Sources / literature:

- Garfield <http://www.garfield.library.upenn.edu>
- Hirsch index (h-index) -- J. E. Hirsch, *PNAS* 102, 16569 (2005)
- tools for finding citing articles:
 - ISI Thomson Science Citation Index - WoS
 - SCI hosted (DIMDI, Dialog)
 - Elsevier's Scopus
 - Google Scholar
 - Publishers' websites

Citing <> being cited

- citing and being cited:
 - backward citation tracking:
 - Making use of bibliographic listings in publications to find older literature
 - (snowball)
 - and forward citation tracking:
 - Using links to specific targets to find (# of) more recent citing sources

Articles cite articles citation analysis



50 years Citation Indexing!!

Introduction to the Science Citation Index explaining the methods of producing and using the index.

Garfield, E. "[Science Citation Index.](#)" *Science Citation Index* 1961, 1, p.v-xvi, 1963.
No:80. from:

<http://www.garfield.library.upenn.edu/pub.html>

Computer indexing

Citations, used as indexing statements, provide [.....] search simplicity, productivity, and efficiency by avoiding the semantics problems

Eugene Garfield, Citation Indexing, 1979

<http://garfield.library.upenn.edu/ci/chapter1.PDF>

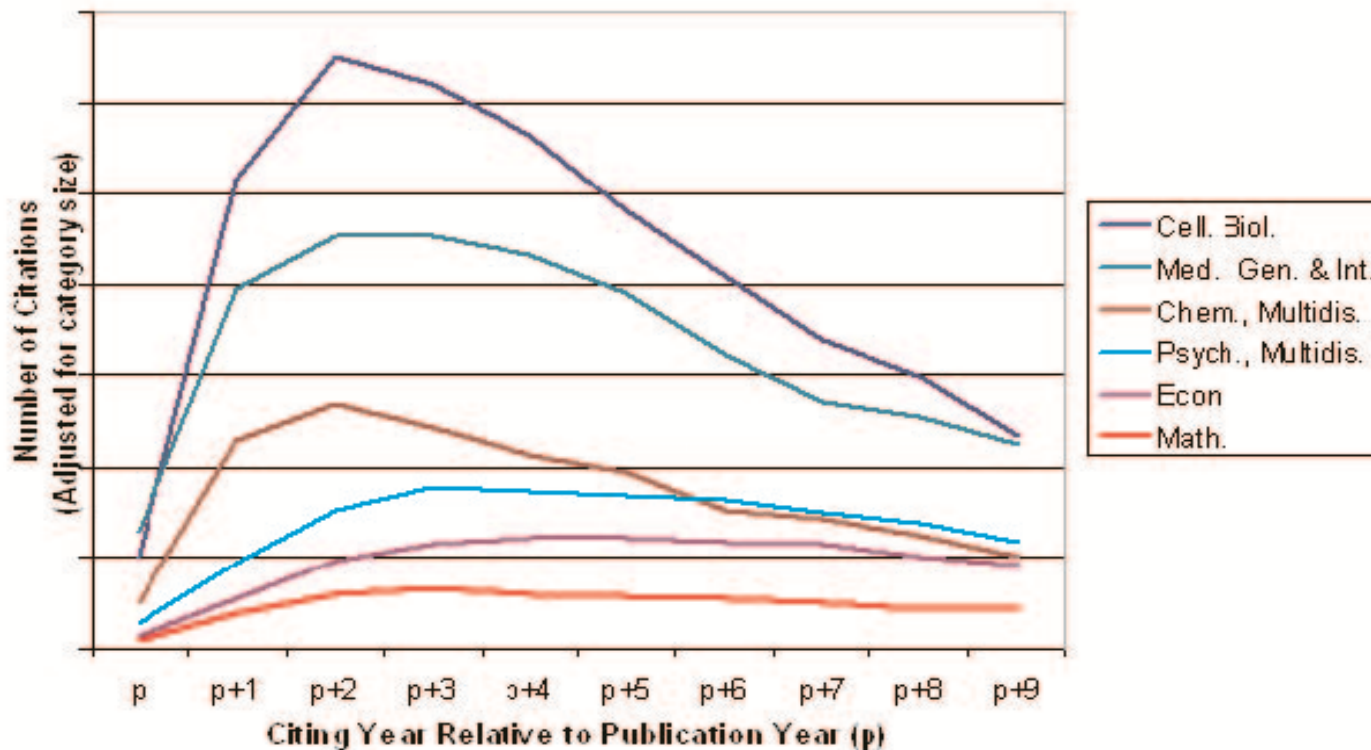
Impact of citation indexing...

Within 10 years, citation indexing had gained acceptance, despite its newness and departure from traditional indexing methods, as an important method of conducting retrospective searches of the scientific literature. And its impact has gone beyond even that. Citation indexing has come to play an important role in current-awareness services, library management, and studies of the policies, history, and literature of science.

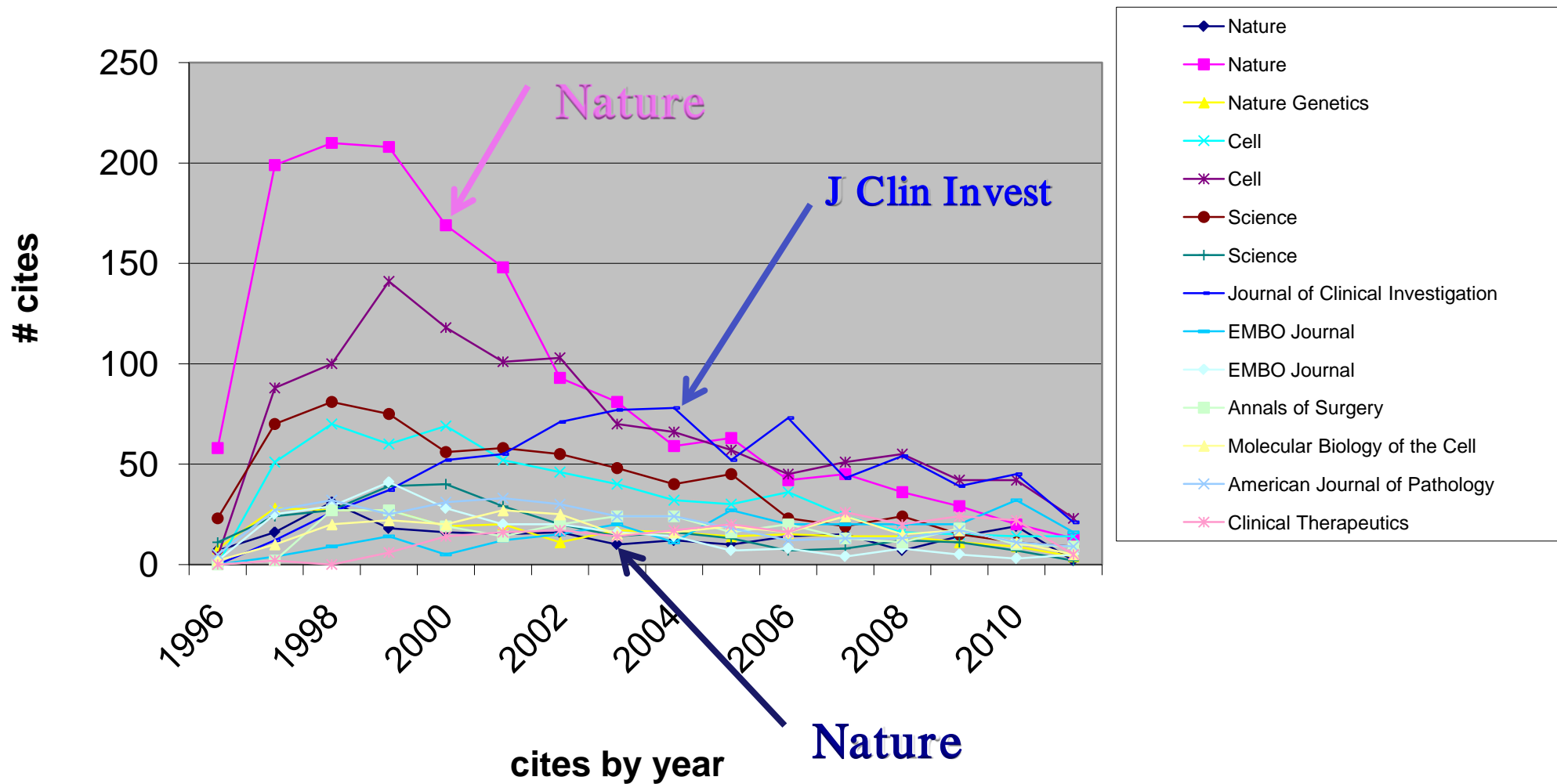
Eugene Garfield, Citation Indexing, 1979

Citations in time

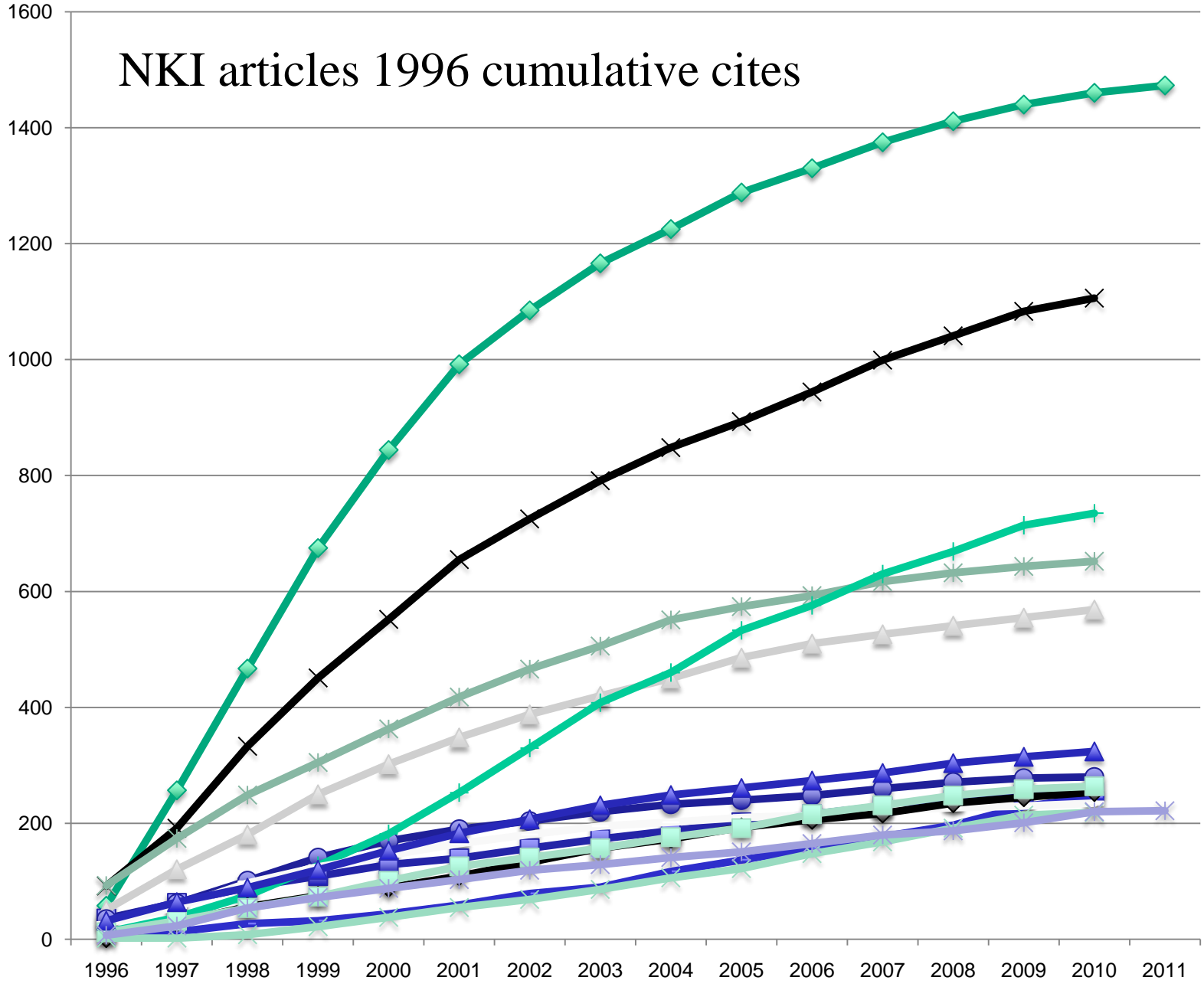
- citation counts for journal articles ([Cross, 2006](#))
 - (two- and five year counts and "lifelong" trends)



NKI 1996 articles

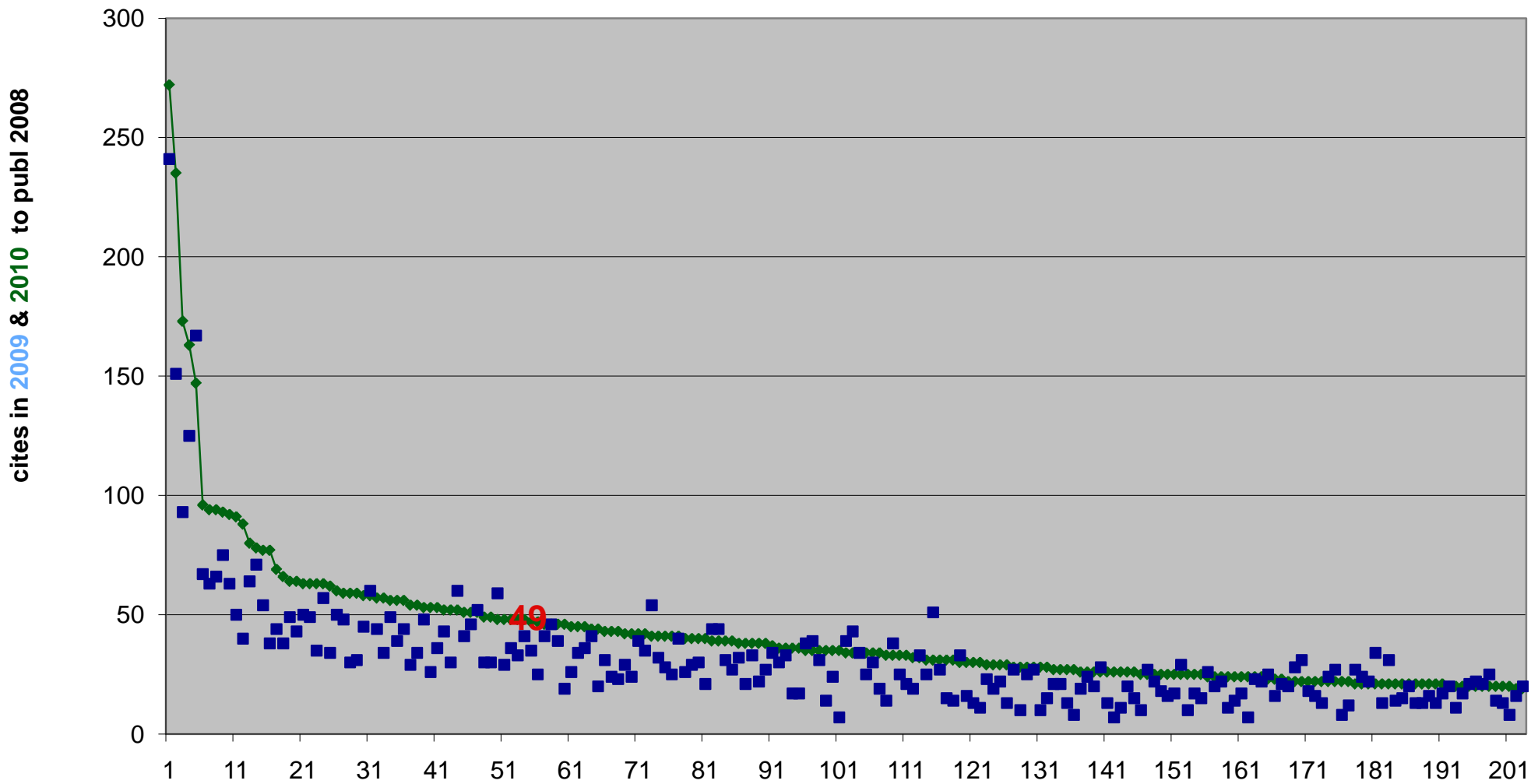


NKI articles 1996 cumulative cites

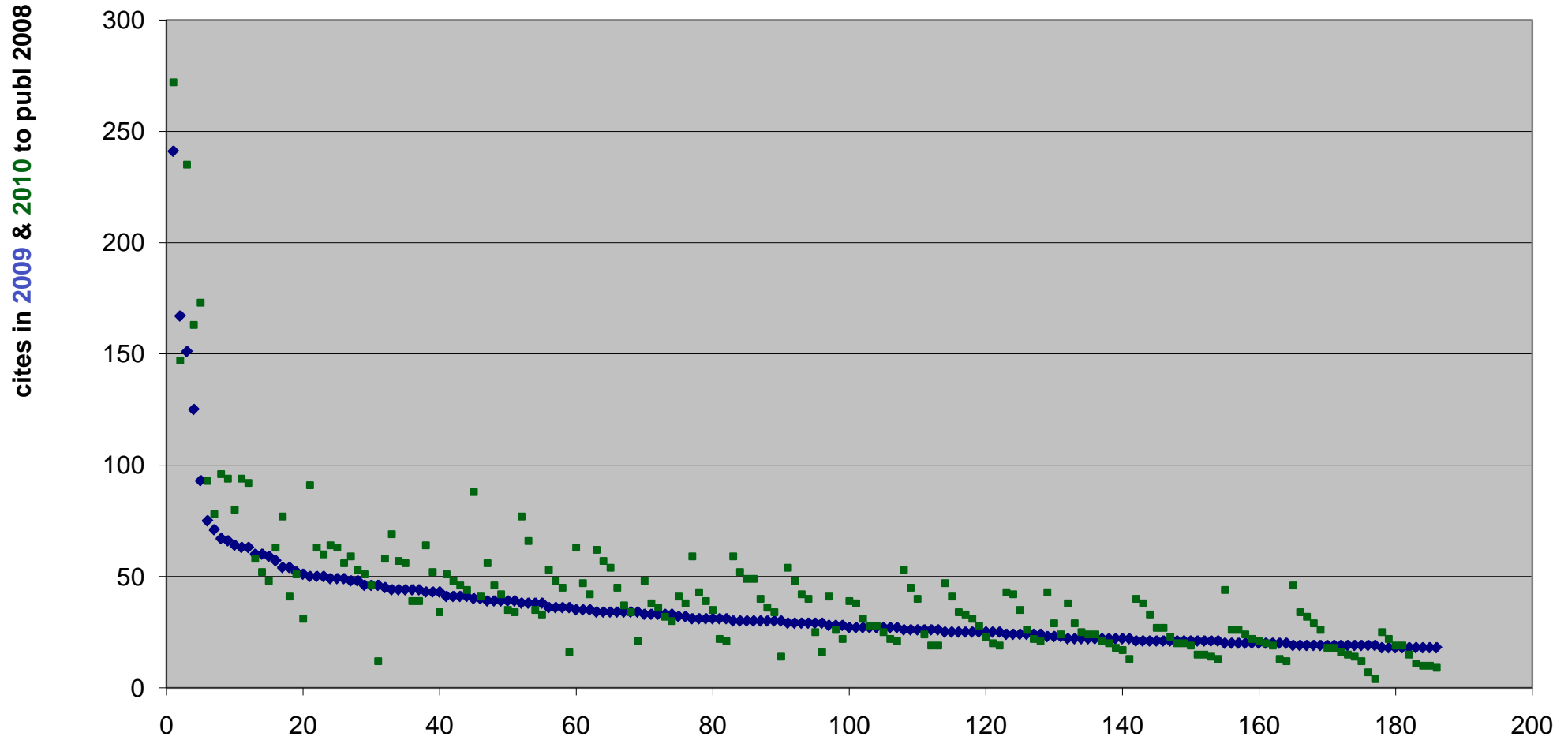


- ◆ Nature
- Nature Genetics
- ▲ Cell
- ✕ Cell
- ✱ Science
- Science
- ✚ Journal of Clinical Investigation
- EMBO Journal
- EMBO Journal
- ◆ Annals of Surgery
- Molecular Biology of the Cell
- ▲ American Journal of Pathology
- ✱ Clinical Therapeutics
- ✱ Nature

NKI: JCO publ 2008 sorted by cites in 2010



NKI: JCO publ 2008 sorted by cites in 2009



Citation counts: 2-year window

- Most recent
- If not/hardly cited, prospect is low
- Actual window: 35-25 months
 - Do not compare individual articles
 - Just an indication!!

Impact factor of journals: ISI's calculations

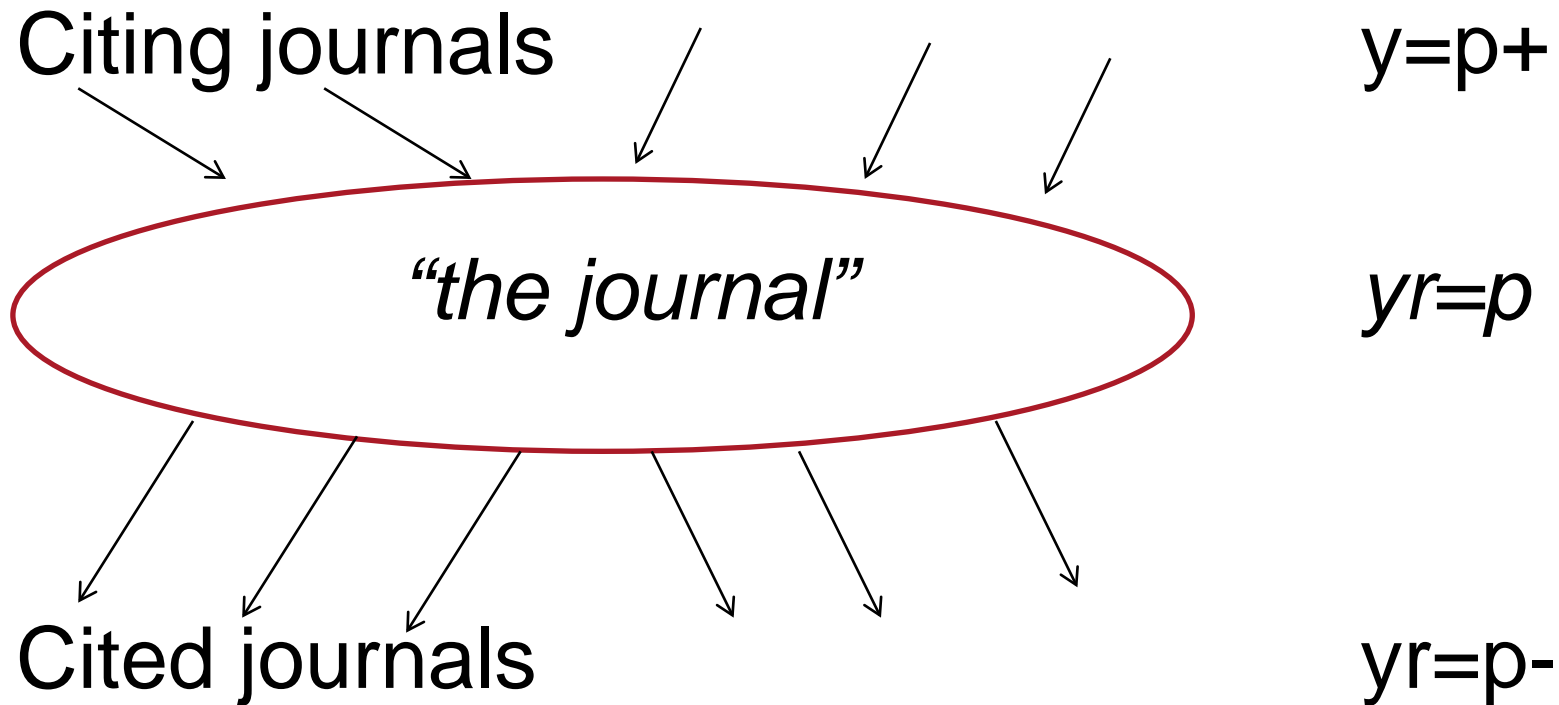
- A = the number of times articles published in 2006-07 were cited in ISI-indexed journals during 2008
- B = the number of articles, reviews, proceedings or notes published in 2006-07
- impact factor 2009 = A/B

(note that the impact factor 2010 will be published in Summer 2011)

Journal Impact Factor ⓘ

| | | | |
|---|-------------|-------------------------------|--------------|
| Cites in 2008 to items published in: | 2007 = 3109 | Number of items published in: | 2007 = 658 |
| | 2006 = 3873 | | 2006 = 675 |
| | Sum: 6982 | | Sum: 1333 |
| Calculation: <u>Cites to recent items</u> | <u>6982</u> | = | 5.238 |
| Number of recent items | 1333 | | |

Journals cite journals => IF



Impact factor 2010

| | | | | |
|---------------|-----------------|-----------|---------------|------|
| | Citing journals | Yr=q+1 | | 2011 |
| | Citing journals | Yr=q | | 2010 |
| Cited journal | Yr=q-1 | Cited art | # art (total) | 2009 |
| Cited journal | Yr=q-2 | Cited art | # art (total) | 2008 |
| Cited journal | Yr=q-3 | | | 2007 |

The diagram illustrates the citation flow for the Impact Factor 2010. It shows a timeline from 2007 to 2011. Citing journals in 2011 cite journals from 2010 (green arrows). Journals from 2010 cite journals from 2009 (red arrows). Journals from 2009 cite journals from 2008 (red arrows). Journals from 2008 cite journals from 2007 (red arrows). The number of articles cited in each year is indicated by the number of arrows.

[Information for New Users](#)

| Select a JCR edition and year: | Select an option: |
|--|--|
| <input checked="" type="radio"/> JCR Science Edition <input type="text" value="2009"/> | <input checked="" type="radio"/> View a group of journals by <input type="text" value="Subject Category"/> |
| <input type="radio"/> JCR Social Sciences Edition <input type="text" value="2009"/> | <input type="radio"/> Search for a specific journal |
| | <input type="radio"/> View all journals |
| <input type="button" value="SUBMIT"/> | |

This product is best viewed in 800x600 or higher resolution

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Journal Citation Reports[®]

2009 JCR Science Edition

Subject Category Selection

[Subject Category Scope Notes](#)

1) Select one or more categories from the list.

[\(How to select more than one\)](#)

NURSING
NUTRITION & DIETETICS
OBSTETRICS & GYNECOLOGY
OCEANOGRAPHY
ONCOLOGY
OPERATIONS RESEARCH & MANAGEMENT SCIENCE
OPHTHALMOLOGY
OPTICS
ORNITHOLOGY

2) Select to view Journal data or aggregate Category data.

View Journal Data - sort by:

View Category Data - sort by:

SUBMIT

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








Journal Summary List

[Journal Title Changes](#)

Journals from: **subject categories ONCOLOGY**  [VIEW CATEGORY SUMMARY LIST](#)



Sorted by:

Journals 1 - 20 (of 166)

Page 1 of 9

Ranking is based on your journal and sort selections.

| Mark | Rank | Abbreviated Journal Title <i>(linked to journal information)</i> | ISSN | JCR Data  | | | | | | Eigenfactor™ Metrics  | |
|--------------------------|------|---|-----------|--|---------------|----------------------|-----------------|----------|-----------------|--|--------------------------|
| | | | | Total Cites | Impact Factor | 5-Year Impact Factor | Immediacy Index | Articles | Cited Half-life | Eigenfactor™ Score | Article Influence™ Score |
| <input type="checkbox"/> | 1 | ACTA ONCOL | 0284-186X | 3584 | 2.265 | 2.487 | 0.598 | 117 | 7.2 | 0.00966 | 0.771 |
| <input type="checkbox"/> | 2 | ADV CANCER RES | 0065-230X | 1815 | 4.456 | 6.295 | 0.074 | 27 | 9.2 | 0.00421 | 2.300 |
| <input type="checkbox"/> | 3 | AM J CLIN ONCOL-CANC | 0277-3732 | 2819 | 2.206 | 1.814 | 0.173 | 104 | 7.6 | 0.00657 | 0.544 |
| <input type="checkbox"/> | 4 | ANN ONCOL | 0923-7534 | 16964 | 5.647 | 5.376 | 1.529 | 331 | 4.6 | 0.06315 | 1.608 |
| <input type="checkbox"/> | 5 | ANN SURG ONCOL | 1068-9265 | 9632 | 4.130 | 4.443 | 0.736 | 406 | 3.9 | 0.03641 | 1.301 |
| <input type="checkbox"/> | 6 | ANTI-CANCER DRUG | 0959-4973 | 3044 | 2.230 | 2.183 | 0.303 | 122 | 5.8 | 0.00848 | 0.579 |
| <input type="checkbox"/> | 7 | ANTICANCER RES | 0250-7005 | 11382 | 1.428 | 1.449 | 0.161 | 741 | 7.0 | 0.02386 | 0.363 |
| <input type="checkbox"/> | 8 | ASIA-PAC J CLIN ONCO | 1743-7555 | 26 | 0.232 | | 0.091 | 33 | | 0.00014 | |
| <input type="checkbox"/> | 9 | ASIAN PAC J CANCER P | 1513-7368 | 1049 | 1.108 | | 0.066 | 122 | 4.0 | 0.00267 | |
| <input type="checkbox"/> | 10 | B CANCER | 0007-4551 | 1023 | 0.792 | 0.791 | 0.358 | 151 | 4.6 | 0.00204 | 0.137 |

Journal Summary List

[Journal Title Changes](#)

Journals from: **subject categories ONCOLOGY** [VIEW CATEGORY SUMMARY LIST](#)

Sorted by:

Journals 1 - 20 (of 166)

Page 1 of 9

Ranking is based on your journal and sort selections.

| Mark | Rank | Abbreviated Journal Title <i>(linked to journal information)</i> | ISSN | JCR Data ⁱ | | | | | | Eigenfactor™ Metrics ⁱ | |
|--------------------------|------|---|-----------|-----------------------|---------------|----------------------|-----------------|----------|-----------------|-----------------------------------|--------------------------|
| | | | | Total Cites | Impact Factor | 5-Year Impact Factor | Immediacy Index | Articles | Cited Half-life | Eigenfactor™ Score | Article Influence™ Score |
| <input type="checkbox"/> | 1 | CA-CANCER J CLIN | 0007-9235 | 8528 | 87.925 | 60.000 | 8.304 | 23 | 3.7 | 0.04224 | 20.925 |
| <input type="checkbox"/> | 2 | NAT REV CANCER | 1474-175X | 22298 | 29.538 | 34.983 | 5.903 | 72 | 5.0 | 0.12531 | 14.978 |
| <input type="checkbox"/> | 3 | CANCER CELL | 1535-6108 | 15367 | 25.288 | 26.636 | 7.317 | 82 | 4.4 | 0.10953 | 12.682 |
| <input type="checkbox"/> | 4 | J CLIN ONCOL | 0732-183X | 104253 | 17.793 | 15.969 | 3.964 | 812 | 4.6 | 0.36629 | 4.528 |
| <input type="checkbox"/> | 5 | LANCET ONCOL | 1470-2045 | 8251 | 14.470 | 13.673 | 3.901 | 111 | 3.6 | 0.04296 | 4.691 |
| <input type="checkbox"/> | 6 | J NATL CANCER I | 0027-8874 | 35795 | 14.069 | 15.620 | 3.303 | 132 | 8.8 | 0.09464 | 5.976 |
| <input type="checkbox"/> | 7 | BBA-REV CANCER | 0304-419X | 2271 | 11.685 | 9.614 | 0.744 | 43 | 5.1 | 0.00988 | 3.595 |
| <input type="checkbox"/> | 8 | CANCER METAST REV | 0167-7659 | 3537 | 9.345 | 8.978 | 0.032 | 31 | 4.8 | 0.01505 | 3.242 |
| <input type="checkbox"/> | 9 | LEUKEMIA | 0887-6924 | 15210 | 8.296 | 6.997 | 2.288 | 222 | 5.0 | 0.05933 | 2.432 |
| <input type="checkbox"/> | 10 | NAT CLIN PRACT ONCOL | 1743-4254 | 1730 | 8.075 | 8.096 | 3.067 | 15 | 2.9 | 0.01238 | 2.860 |

Cited Journal: JOURNAL OF CLINICAL ONCOLOGY

Number of times articles published in 2009 (in journals below) cited articles published in J CLIN ONCOL (in years below). ([How to read this table](#))

Journals 1 - 20 (of 2075)

Navigation: [1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10]

Page 1 of 104

| Impact | Citing Journal | Cited Year | | | | | | | | | | | |
|--------|--------------------------------------|------------|------|-------|-------|-------|-------|------|------|------|------|------|-------|
| | | All Yrs | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | Rest |
| | All Journals | 104253 | 3219 | 13624 | 13724 | 12338 | 14665 | 7722 | 6871 | 5502 | 4739 | 3760 | 18089 |
| 17.793 | J CLIN ONCOL | 6020 | 555 | 1026 | 891 | 678 | 727 | 358 | 353 | 230 | 203 | 164 | 835 |
| 6.747 | CLIN CANCER RES | 2153 | 89 | 408 | 259 | 272 | 372 | 151 | 130 | 98 | 69 | 68 | 237 |
| 5.418 | CANCER-AM CANCER SOC | 2146 | 17 | 279 | 342 | 261 | 263 | 168 | 140 | 106 | 109 | 105 | 356 |
| 5.647 | ANN ONCOL | 1940 | 40 | 338 | 274 | 242 | 256 | 139 | 134 | 86 | 62 | 74 | 295 |
| 6.701 | ONCOLOGIST | 1394 | 85 | 280 | 211 | 140 | 177 | 87 | 88 | 60 | 55 | 46 | 165 |
| 2.493 | EXPERT REV ANTICANC | 1371 | 115 | 263 | 181 | 159 | 149 | 98 | 67 | 55 | 50 | 38 | 196 |
| 4.547 | J THORAC ONCOL | 1218 | 40 | 228 | 151 | 138 | 180 | 95 | 96 | 55 | 33 | 37 | 165 |
| 4.592 | INT J RADIAT ONCOL | 1175 | 2 | 82 | 172 | 154 | 144 | 64 | 87 | 82 | 61 | 51 | 276 |
| 4.346 | BRIT J CANCER | 1157 | 41 | 213 | 198 | 129 | 153 | 75 | 48 | 54 | 45 | 41 | 160 |
| 4.696 | BREAST CANCER RES TR | 1014 | 2 | 93 | 135 | 131 | 163 | 56 | 65 | 82 | 62 | 48 | 177 |
| 10.555 | BLOOD | 1013 | 46 | 133 | 129 | 116 | 184 | 53 | 75 | 43 | 33 | 32 | 169 |
| 4.121 | EUR J CANCER | 1007 | 20 | 147 | 150 | 107 | 139 | 84 | 55 | 53 | 56 | 40 | 156 |
| 5.295 | CANCER TREAT REV | 905 | 20 | 170 | 177 | 99 | 120 | 52 | 60 | 45 | 25 | 22 | 115 |
| | J NATL COMPR CANC NE | 900 | 36 | 154 | 137 | 107 | 110 | 70 | 50 | 45 | 51 | 20 | 120 |
| 5.269 | CRIT REV ONCOL HEMAT | 868 | 0 | 54 | 129 | 130 | 127 | 59 | 64 | 35 | 44 | 43 | 183 |
| 2.654 | CANCER CHEMOTH PHARM | 865 | 3 | 54 | 120 | 107 | 105 | 78 | 45 | 50 | 36 | 41 | 226 |

Citing Journal: JOURNAL OF CLINICAL ONCOLOGY

Number of times articles published in journals below (in years below) were cited in J CLIN ONCOL in 2009. ([How to read this table](#))

Journals 1 - 20 (of 1268)

Navigation: [1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10]

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| Impact | Cited Journal | Cited Year | | | | | | | | | | | |
|--------|--------------------------------------|------------|------|------|------|------|------|------|------|------|------|------|------|
| | | All Yrs | 2009 | 2008 | 2007 | 2006 | 2005 | 2004 | 2003 | 2002 | 2001 | 2000 | Rest |
| | All Journals | 33626 | 999 | 3884 | 4281 | 3615 | 3326 | 2555 | 2167 | 1839 | 1443 | 1381 | 8136 |
| 17.793 | J CLIN ONCOL | 6020 | 555 | 1026 | 891 | 678 | 727 | 358 | 353 | 230 | 203 | 164 | 835 |
| | ALL OTHERS (1856) | 1856 | 30 | 201 | 193 | 141 | 116 | 104 | 74 | 74 | 64 | 64 | 795 |
| 47.050 | NEW ENGL J MED | 1589 | 30 | 121 | 188 | 180 | 195 | 184 | 115 | 106 | 63 | 52 | 355 |
| 10.555 | BLOOD | 1522 | 23 | 266 | 222 | 178 | 131 | 107 | 93 | 94 | 62 | 52 | 294 |
| 14.069 | J NATL CANCER I | 933 | 8 | 78 | 94 | 104 | 93 | 66 | 60 | 50 | 33 | 127 | 220 |
| 6.747 | CLIN CANCER RES | 807 | 6 | 113 | 139 | 113 | 133 | 118 | 65 | 32 | 24 | 29 | 35 |
| 5.418 | CANCER-AM CANCER SOC | 788 | 0 | 45 | 67 | 43 | 53 | 66 | 31 | 25 | 39 | 11 | 408 |
| 7.543 | CANCER RES | 685 | 26 | 64 | 75 | 73 | 66 | 51 | 41 | 40 | 48 | 26 | 175 |
| 5.647 | ANN ONCOL | 600 | 19 | 91 | 82 | 80 | 59 | 50 | 31 | 37 | 29 | 32 | 90 |
| 30.758 | LANCET | 547 | 15 | 35 | 65 | 29 | 93 | 17 | 33 | 44 | 20 | 34 | 162 |
| 28.899 | JAMA-J AM MED ASSOC | 513 | 5 | 41 | 31 | 58 | 49 | 37 | 37 | 21 | 25 | 16 | 193 |
| 4.346 | BRIT J CANCER | 495 | 6 | 33 | 65 | 61 | 39 | 53 | 32 | 28 | 25 | 28 | 125 |
| 4.592 | INT J RADIAT ONCOL | 447 | 6 | 35 | 39 | 40 | 46 | 31 | 24 | 30 | 24 | 24 | 148 |
| 2.768 | CANCER CYTOPATHOL | 319 | 13 | 45 | 53 | 53 | 45 | 1 | 36 | 26 | 17 | 30 | 0 |
| 4.121 | EUR J CANCER | 310 | 11 | 29 | 19 | 27 | 28 | 25 | 33 | 19 | 13 | 11 | 95 |
| 4.696 | BREAST CANCER RES TR | 288 | 17 | 54 | 58 | 40 | 25 | 9 | 10 | 8 | 7 | 13 | 47 |

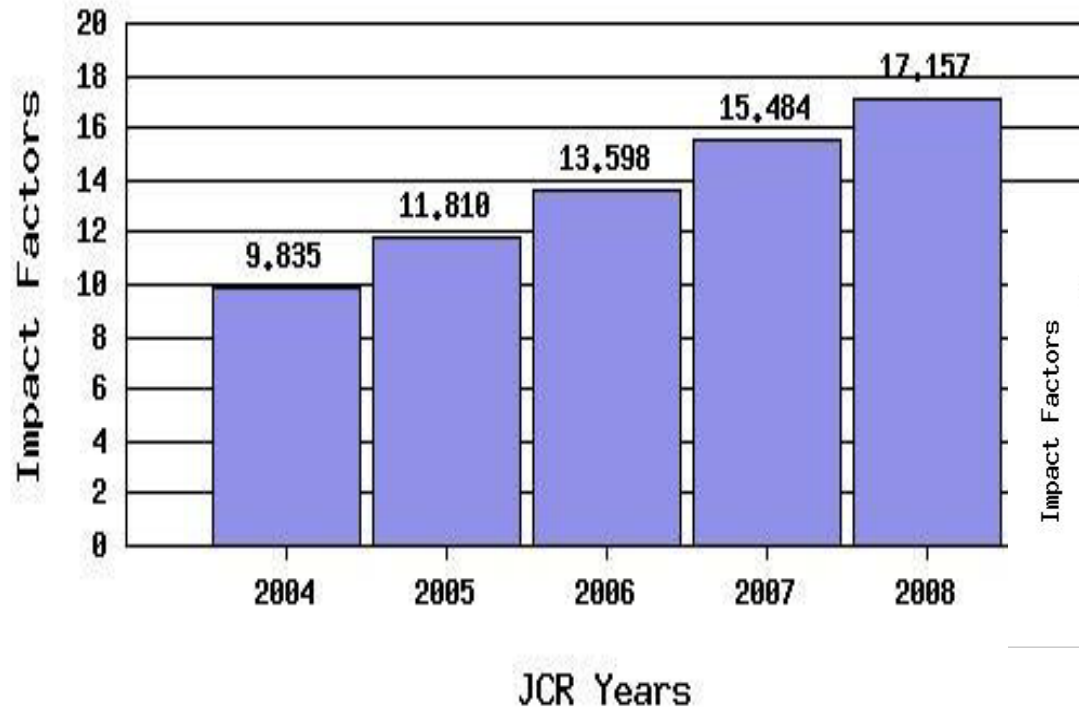


impact factor does not predict citations: JCO vs JBC

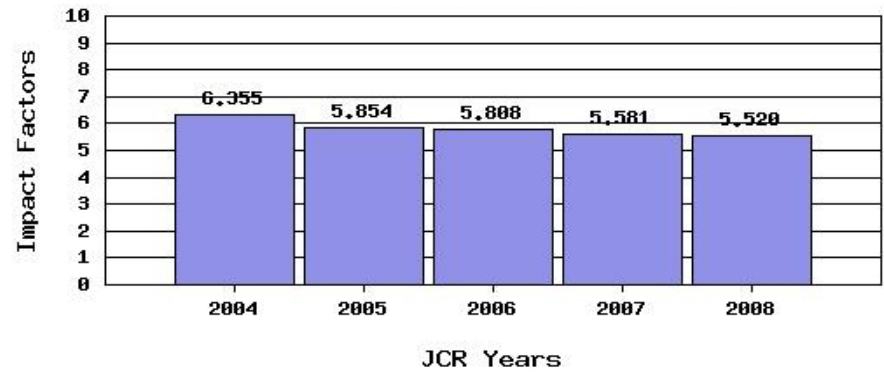
| | |
|---|---|
| <p>2008 Impact Factor</p> <p>Cites in 2008 to articles published in: 2007 = 12287 2006 = 13534 Sum: 25821</p> <p>Calculation: $\frac{\text{Cites to recent articles } 25821}{\text{Number of recent articles } 1505} = \mathbf{17.157}$</p> | <p>2008 Impact Factor</p> <p>Cites in 2008 to articles published in: 2007 = 19986 2006 = 25487 Sum: 45473</p> <p>Calculation: $\frac{\text{Cites to recent articles } 45473}{\text{Number of recent articles } 8238} = \mathbf{5.520}$</p> |
| <p>2007 Impact Factor</p> <p>Cites in 2007 to articles published in: 2006 = 10790 2005 = 16384 Sum: 27174</p> <p>Calculation: $\frac{\text{Cites to recent articles } 27174}{\text{Number of recent articles } 1755} = \mathbf{15.484}$</p> | <p>2007 Impact Factor</p> <p>Cites in 2007 to articles published in: 2006 = 21305 2005 = 31075 Sum: 52380</p> <p>Calculation: $\frac{\text{Cites to recent articles } 52380}{\text{Number of recent articles } 9386} = \mathbf{5.581}$</p> |
| <p>2006 Impact Factor</p> <p>Cites in 2006 to articles published in: 2005 = 12970 2004 = 9005 Sum: 21975</p> <p>Calculation: $\frac{\text{Cites to recent articles } 21975}{\text{Number of recent articles } 1616} = \mathbf{13.598}$</p> | <p>2006 Impact Factor</p> <p>Cites in 2006 to articles published in: 2005 = 26889 2004 = 40689 Sum: 67578</p> <p>Calculation: $\frac{\text{Cites to recent articles } 67578}{\text{Number of recent articles } 11635} = \mathbf{5.808}$</p> |

IF JCO vs JBC

JOURNAL OF CLINICAL ONCOLOGY



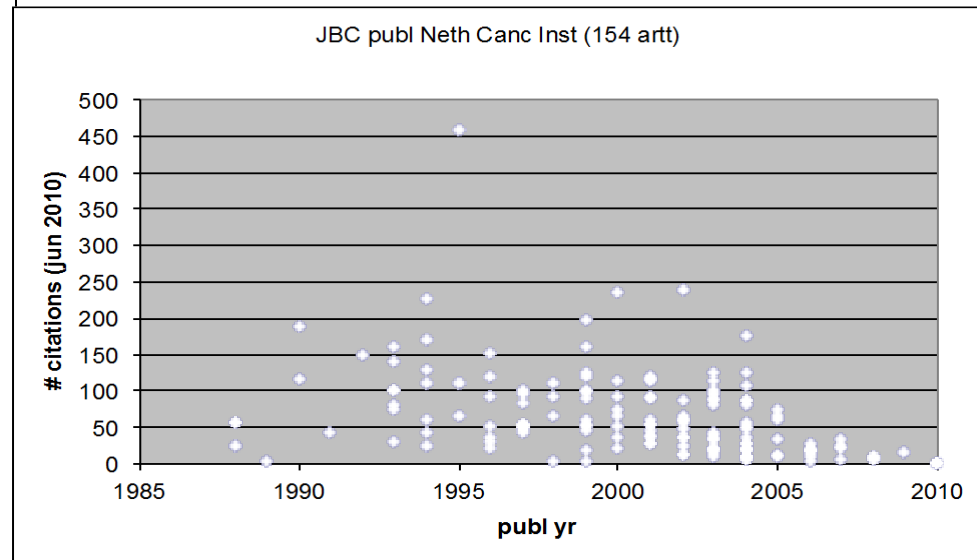
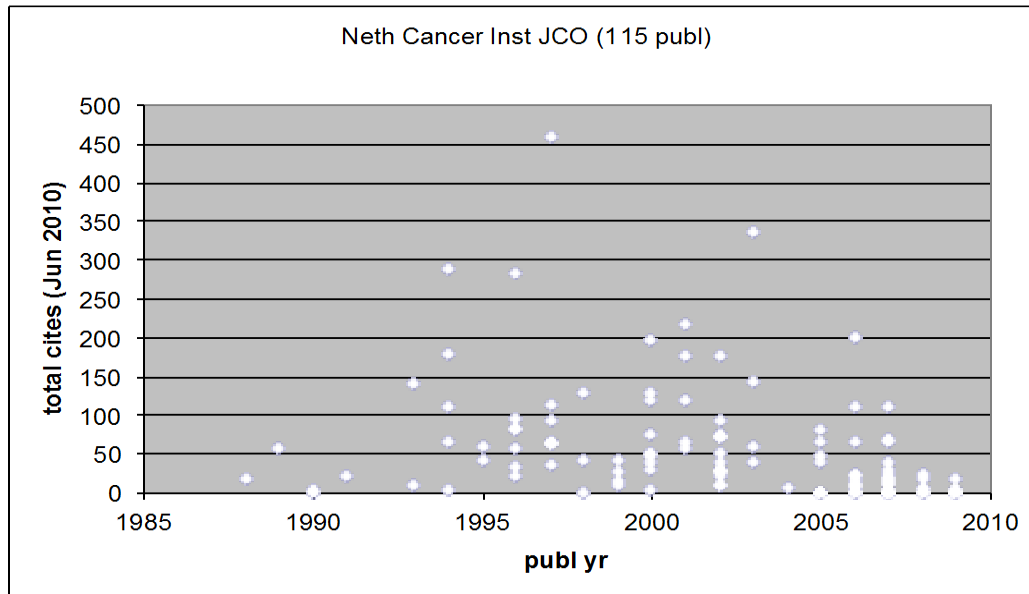
JOURNAL OF BIOLOGICAL CHEMISTRY



IF \neq cit

JCO IF > 17

JBC IF = 5.5



Hirsch-index

- Hirsch index (h-index) -- J. E. Hirsch, *PNAS* 102, 16569 (2005)

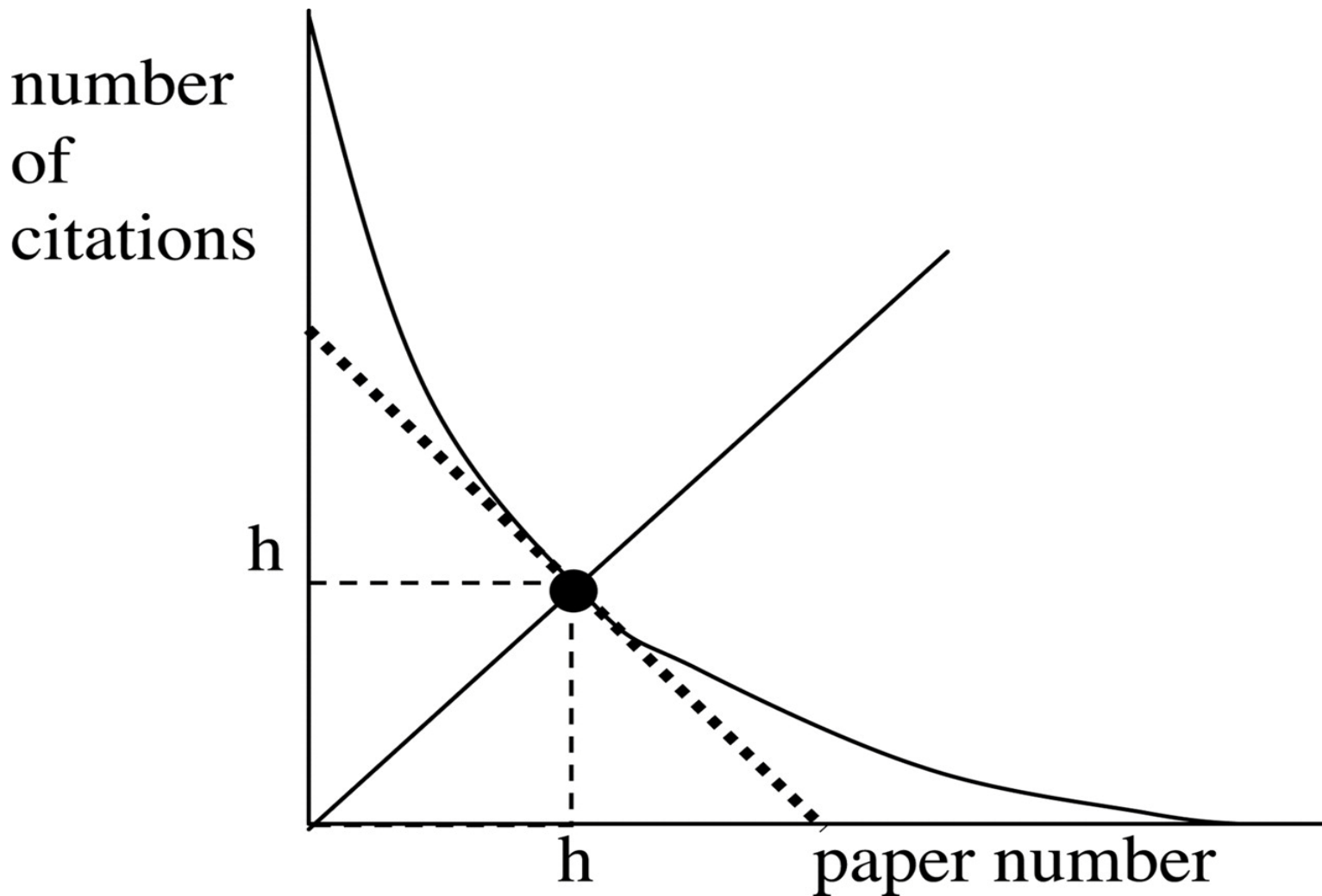
Number of papers vs number of cites

Papers in order of cites received









H-index:




total number of cites = number of papers

Schematic curve of number of citations versus paper number, with papers numbered in order of decreasing citations.



Hirsch J E PNAS 2005;102:16569-16572

| | Authors | Documents | Subject Area | Affiliation | City | Country |
|--|---|---|--|--|-----------|-------------------|
| <input checked="" type="checkbox"/> 1 | van Leeuwen, Flora E. Van Leeuwen, F. Van Leeuwen, F. E. van Leeuwen, F. E. |  182  Show Last Title | Medicine; Biochemistry, Genetics and Molecular Biology; Agricultural and Biological Sciences; ... | The Netherlands Cancer Institute | Amsterdam | Netherlands |
| <input checked="" type="checkbox"/> 2 | van Leeuwen, Fred W B Van Leeuwen, F. van Leeuwen, Fred van Leeuwen, Fred W. |  167  Show Last Title | Biochemistry, Genetics and Molecular Biology; Neuroscience; Medicine; ... | The Netherlands Cancer Institute | Amsterdam | Netherlands |
| <input checked="" type="checkbox"/> 3 | van Leeuwen, Eleonore F. Van Leeuwen, Eleonore Van Leeuwen, E. Van Leeuwen, Eleonore F. |  73  Show Last Title | Medicine; Biochemistry, Genetics and Molecular Biology; Immunology and Microbiology; ... | RC Blood Bank Midden Nederland | Utrecht | Netherlands |
| <input checked="" type="checkbox"/> 4 | Van Leeuwen, Floor Van Leeuwen, F. van Leeuwen, F. |  44  Show Last Title | Earth and Planetary Sciences; Physics and Astronomy; | University of Cambridge Institute of Astronomy | Cambridge | United Kingdom |

| | | | | | | |
|-------------------------------------|---|---|--|--|-----------|-------------|
| <input checked="" type="checkbox"/> | Van Leeuwen, Flora E. van Leeuwen, Flora E. Van Leeuwen, Flora | 33  Show Last Title | Medicine; Biochemistry, Genetics and Molecular Biology; Mathematics; ... | Vrije Universiteit Amsterdam | Amsterdam | Netherlands |
| <input checked="" type="checkbox"/> | van Leeuwen, Frank N. Van Leeuwen, F. Van Leeuwen, Frank N. van Leeuwen, F. | 30  Show Last Title | Biochemistry, Genetics and Molecular Biology; Medicine; Agricultural and Biological Sciences; ... | Radboud University Nijmegen Medical Centre | Nijmegen | Netherlands |
| <input checked="" type="checkbox"/> | van Leeuwen, F. W B Van Leeuwen, F. Van Leeuwen, F. W. B. van Leeuwen, F. | 29  Show Last Title | Engineering; Materials Science; Biochemistry, Genetics and Molecular | The Netherlands Cancer Institute | Amsterdam | Netherlands |

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Scopus

GoogleScholar

SCI-DIMDI

Publisher sites

1996<

Programmed gene rearrangements altering gene expression

[Borst, P., Greaves, D.R.](#)

1987

[Science](#) 235 (4789), pp. 658-667

[69](#)

[Abstract + Refs](#)

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[Programmed gene rearrangements altering gene expression -- Borst ...](#)

by P. Borst - 1987 - Cited by 226 - Related articles

J. E. Donelson and J. E. Donelson (1995) *J. Biol. Chem.* 270, 7783-7786 ... P. Borst, J.H. Gommers-Ampt, M.J.L. Ligtenberg, G. Rudenko, R. Kieft, ...

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[Programmed gene rearrangements altering gene expression](#)

P Borst... - Science, 1987 - sciencemag.org

35. H. Bache, Proceedings of the 2nd International Conference on Superplasticizers in Concrete, CANMET, Ottawa, Canada (June, 1981), p. 33. 36. L. Hjorth, in (22), p. 167. 37. FF Radje, T. Bogen, EJ Sellevold, RE Loeland, in Proceedings of the First International ...

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Citing Articles

Title: PROGRAMMED GENE REARRANGEMENTS ALTERING GENE-EXPRESSION

Author(s): BORST, P

Source: **SCIENCE** Volume: 235 Issue: 4789 Pages: 658-667 Published: FEB 6 1987

The above article has been cited by the articles listed below.

Note: The Times Cited count is calculated across all *Web of Science* editions. [More information.](#)

Results: **231**



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Go



[Programmed gene rearrangements altering gene expression](#)

Borst, P., Greaves, D.R.

1987 *Science* 235 (4789), pp. 658-667

69

2

[View at publisher](#)

[Show abstract](#)

- Congenital Jaundice in Rats with a Mutation in a Multidrug Resistance–Associated Protein Gene**
Coen C. Paulusma, Piter J. Bosma, Guido J. R. Zaman, Conny T. M. Bakker, Marlies Otter, George L. S. Rik J. Scheper, Piet Borst, and Ronald P. J. Oude Elferink
Science 23 February 1996: 1126–1128. [DOI:10.1126/science.271.5252.1126]

Science
Classic » [Abstract](#) » [References](#) » [Full Text \(PDF\)](#)

- Antigenic variation in African trypanosomes**
P Borst and G Rudenko
Science 24 June 1994: 1872–1873. [DOI:10.1126/science.7516579]

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P Borst and DR Greaves
Science 6 February 1987: 658–667. [DOI:10.1126/science.3544215]

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- Double–Stranded Ribonucleic Acid Formation in vitro by MS 2 Phage–Induced RNA Synthetase**
Charles Weissmann and Piet Borst
Science 29 November 1963: 1188–1191. [DOI:10.1126/science.142.3596.1188]

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Programmed gene rearrangements altering gene expression

P Borst and DR Greaves

ABSTRACT

Programmed gene rearrangements are used in nature to alter gene copy number (gene amplification or deletion), to create diversity by reassorting gene segments (as in the formation of mammalian immunoglobulin genes), or to control the expression of a set of genes that code for the same function (such as surface antigens). Two major mechanisms for expression control are DNA inversion and DNA transposition. In DNA inversion a DNA segment flips around and is rejoined by site-specific recombination, disconnecting or

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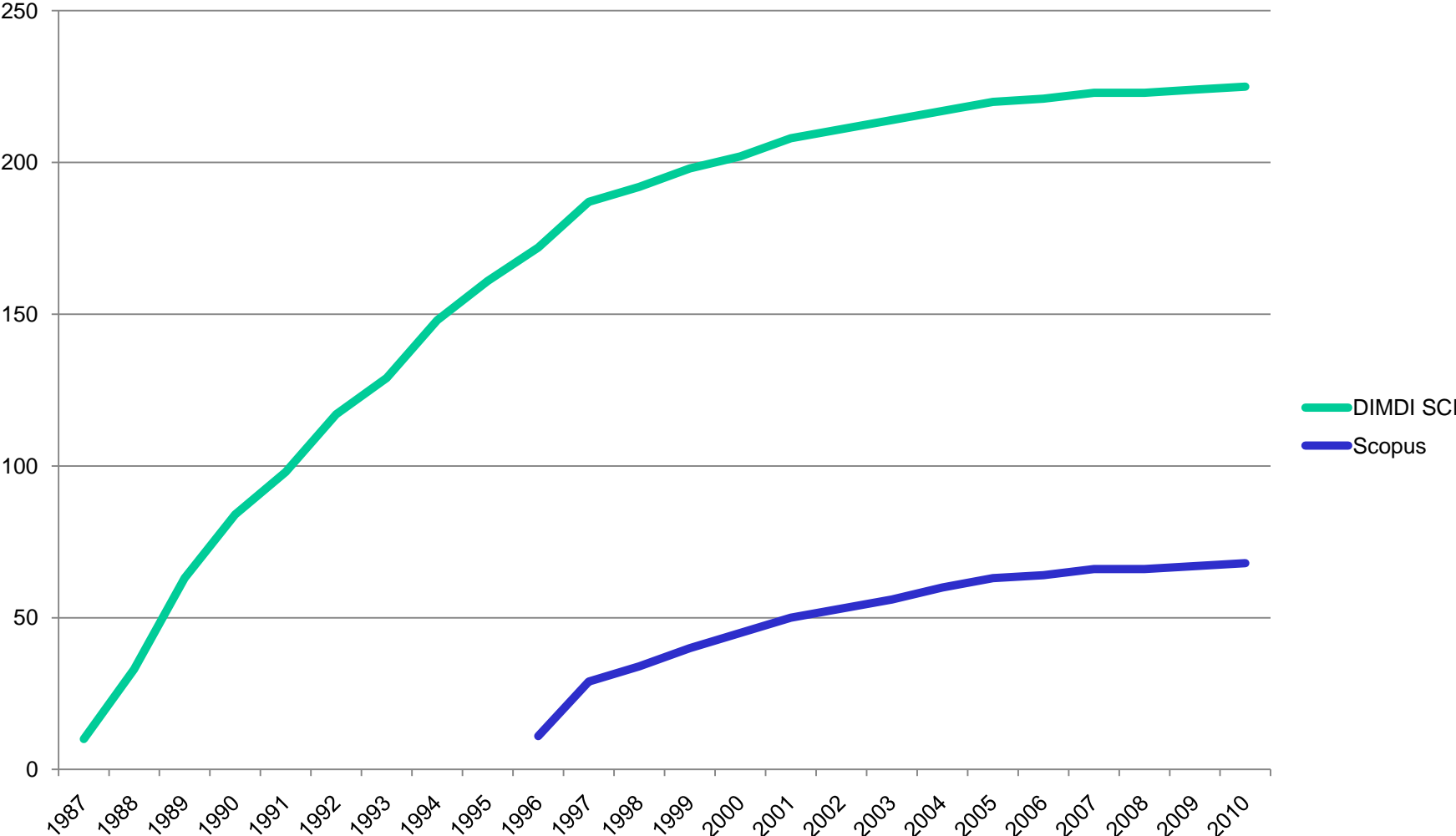
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... Such **programmed** (or **developmental**) **rearrangements** can be grouped in three categories: (i) **amplification** or **deletion** of **genes**; (ii) **assembly** of **genes** from **gene segments**; and (iii) **DNA rearrangements** that **alter gene expression**. ...

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High sensitivity of BRCA1-deficient mammary tumors to the PARP inhibitor AZD2281 alone and in combination with platinum drugs

Sven Rottenberg^a, Janneke E. Jaspers^a, Ariena Kersbergen^a, Eline van der Burg^a, Anders O. H. Nygren^b, Serge A. L. Zander^a, Patrick W. B. Derksen^{a,1}, Michiel de Bruin^a, John Zevenhoven^c, Alan Lau^d, Robert Boulter^d, Aaron Cranston^d, Mark J. O'Connor^d, Niall M. B. Martin^d, Piet Borst^a, and Jos Jonkers^{a,2}

+ Author Affiliations

Edited by Harold E. Varmus, Memorial Sloan-Kettering Cancer Center, New York, NY, and approved August 25, 2008 (received for review June 25, 2008)

Abstract

Whereas target-specific drugs are available for treating ERBB2-overexpressing and hormone receptor-positive breast cancers, no tailored therapy exists for hormone receptor- and ERBB2-negative ("triple-negative") mammary carcinomas. Triple-negative tumors account for 15% of all breast cancers and frequently harbor defects in DNA double-strand break repair through homologous



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2268 terms selected

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| D2 | 148712 | 141 | 5 | RJ=CLIN CANCER RES |
| D3 | 795505 | 176 | 4 | RJ=CANCER RES |
| D4 | 573898 | 118 | 3 | RJ=CANCER |
| D5 | 379031 | 115 | 3 | RJ=J NATL CANCER I |
| D6 | 304237 | 110 | 3 | RJ=BRIT J CANCER |
| D7 | 124282 | 89 | 3 | RJ=EUR J CANCER |
| D8 | 67395 | 81 | 3 | RJ=ANN ONCOL |
| D9 | 106518 | 73 | 3 | RJ=INT J RADIAT ONCOL |
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| D11 | 285106 | 91 | 2 | RJ=ONCOGENE |
| D12 | 68673 | 76 | 2 | RJ=NAT REV CANCER |
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| D14 | 39153 | 48 | 2 | RJ=RADIOTHER ONCOL |
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| 81 | 2.28 P NATL ACAD SCI USA |
| 68 | 1.91 J IMMUNOL |
| 66 | 1.86 J BIOL CHEM |
| 58 | 1.63 INT J RADIAT ONCOL |
| 57 | 1.60 NATURE |
| 55 | 1.55 NEW ENGL J MED |
| 52 | 1.46 CELL |
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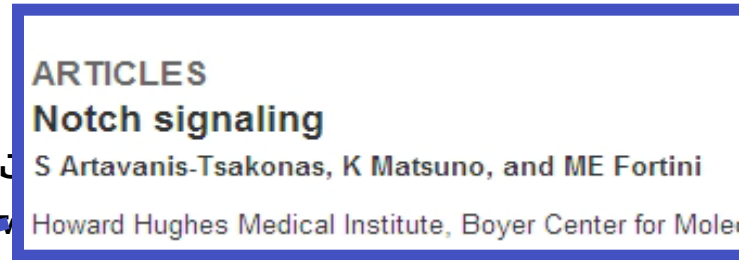
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D RF=Kruse ?

D RF=Kruse ####,2007,V13,P945

D RF=Kruse J###,2007?

F RF=KRUSE J###,2007,V13,p?

F RF=Veenstra RJ,1991,V20,P?!

F RF=Veenstra RJ,1991,V114,P?!

F RF=Verhoeven AAH,1994,V83,P?!

F RF=Wakeford R,1993,V306,P?!

Telnet -- DIMDI (2)

```
sbas is74;in73
```

```
2 databases with 34819884 documents selected
```

```
IS74 SciSearch Thomson Reuters
```

```
IN73 Social SciSearch Thomson Reuters
```

```
  S-No  Hits  Search Expression
```

```
  2   5839  RF=AARONSON NK?
```

```
  3   571   2 AND PY=2009
```

```
?
```

```
ch dup
```

```
  571 records processed
```

```
  173 duplicates removed
```

```
4: 398 check duplicates: unique in s=3
```

Cited ref search DIMDI (3)

d rf=Aaronson NK,?

D-NO HITS DESCRIPTOR

| | | |
|-----|----|----------------------------|
| D1 | 10 | AARONSON NK,,V,P |
| D2 | 1 | AARONSON NK,,V,P185 |
| D3 | 1 | AARONSON NK,,V,P43 |
| D4 | 1 | AARONSON NK,,V67,P839 |
| D5 | 2 | AARONSON NK,,V85,P365 |
| D6 | 1 | AARONSON NK,1933,V85,P365 |
| D7 | 2 | AARONSON NK,1964,V2,P69 |
| D8 | 2 | AARONSON NK,1982,V111,P231 |
| D9 | 1 | AARONSON NK,1982,V2,P69 |
| D10 | 2 | AARONSON NK,1982,V28,P1304 |

Cited ref search DIMDI (4)

| | | |
|------|------|----------------------------|
| D131 | 1 | AARONSON NK,1993,V85,P36 |
| D132 | 2 | AARONSON NK,1993,V85,P362 |
| D133 | 1 | AARONSON NK,1993,V85,P363 |
| D134 | 21 | AARONSON NK,1993,V85,P364 |
| D135 | 3403 | AARONSON NK,1993,V85,P365 |
| D136 | 1 | AARONSON NK,1993,V85,P3653 |
| D137 | 5 | AARONSON NK,1993,V85,P368 |
| D138 | 1 | AARONSON NK,1993,V85,P385 |
| D139 | 1 | AARONSON NK,1993,V85,P64 |
| D140 | 9 | AARONSON NK,1993,V85,P65 |

F (D131 TO D140) AND PY=(1993;1994;1995)

Output Reference Manager

F RF=Kruse JJCM#,2007,V13,P?

(in RTF/Word document output from RM):

As appropriate “find & replace”

- initials: “ ^\$^\$^\$#,” by “ #####,”
- prefixes: “=van de” by “=vande”
- dashes: “Verheijen-Voogd” by VerheijenVoogd”
- check for non-digital characters in volume and page numbers
- add exclamation mark at end for upload of multiple commands

Output Reference Manager (2)

F RF=Kruse JJCM#,2007,V13,P?

Choose either “display” or “find” commands

Choose to restrict to publication years of citing documents:

F PY=(2007 TO 2009) AND RF=.....

LOG FILE !!

- Telnet:
 - “transfer”
- Upload:
 - Max chars
 - >1000
- Browser:
 - Open protocol
 - Store protocol
 - (Speichern)
- Upload:
 - Max 256 chars

SEARCH HISTORY

- display sets NOT in search history
- display kept in log file

- statistics report NOT in search history
- statistics report in log file

- t hc (whole listing)
- t last (last 5 sets)
- remove sets with del s=..

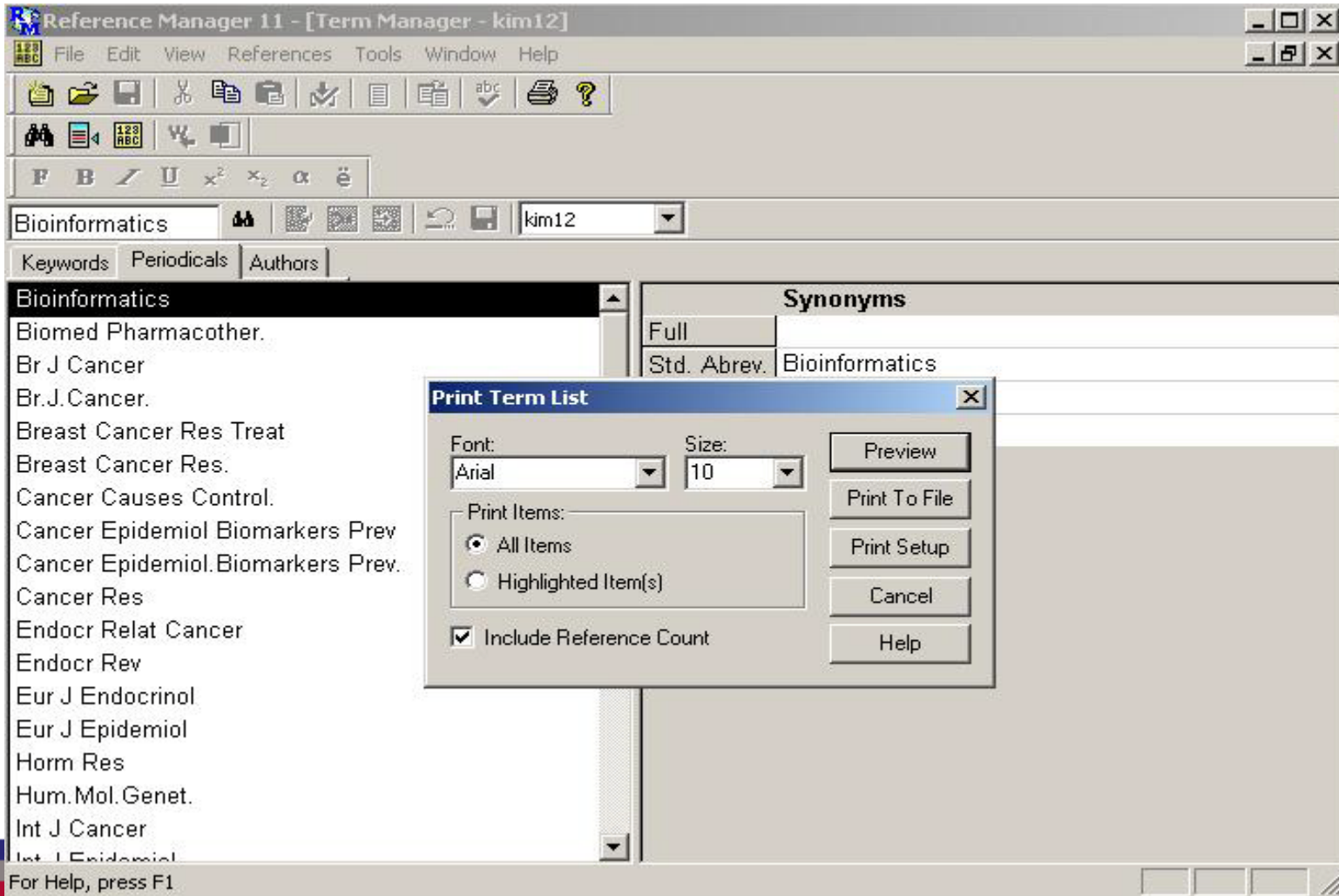
END OF SEARCH

- Telnet: / Browser:
- t hc (whole listing)
- INFO COST
- STOP

J STATS (5): DIMDI

- Extract command:
 - Takes time (time-out failure)
 - Costs of processing time
- Breakdown in smaller sets (e.g. by year)
 - F .. AND PY=2009
 - F .. AND PY=2008
- Extract F=JT;SAMPLE=...;SORT=FREQ
- Extract F=JT;SAMPLE=...;SORT=A

J STATS (2): RM print term list



J STATS (3): RM print term list

| | Full Journal Name | Standard Abrev. | User One | User Two |
|---|-------------------|-----------------------------|----------|----------|
| 1 | | Bioinformatics | | |
| 1 | | Biomed Pharmacother. | | |
| 1 | | Br J Cancer | | |
| 1 | | Br.J.Cancer. | | |
| 1 | | Breast Cancer Res Treat | | |
| 1 | | Breast Cancer Res. | | |
| 2 | | Cancer Causes Control. | | |
| 7 | | Cancer Epidemiol Biomarker: | | |
| 6 | | Cancer Epidemiol.Biomarker | | |
| 1 | | Cancer Res | | |
| 1 | | Endocr Relat Cancer | | |
| 1 | | Endocr Rev | | |
| 1 | | Eur J Endocrinol | | |
| 1 | | Eur J Epidemiol | | |
| 1 | | Horm Res | | |
| 1 | | Hum.Mol.Genet. | | |
| 2 | | Int J Cancer | | |
| 1 | | Int.J.Epidemiol | | |

Page 1

J STATS (4): RM subj bibliogr

Reference Manager 11 - [Reference List - kim12 Database: Journal Reference ID 1063]

File Edit View References Tools Window Help

Bibliography
Cite While You Write [CWYW]
Subject Bibliography...
Term Manager
Internet Search...
Spell Check

Batch Operations
Import Dictionaries
Import Filter Editor
Field and Type Edit...
Reference List Display...
Phrase List...
Rebuild Database...
Change Database Sort Order
Convert Journal Formats...
Data Visualization
Web Publisher...
Options...

Baxter, R. C.
Boker, L. K.
Boyd, N.
Boyd, N. F.

Subject Bibliography Setup

General Bibliography Page Subject

Create a Subject Bibliography for:
All Reference

Output Style: C:\PROGR

Default Font: Arial

List e
 In oth
line f

Subject Fields

Selected Fields:

- [01] Ref Type
- [02] Ref ID
- [03] Title
- [04] Autl
- [05] Dat
- [06] Not
- [07] Key
- [08] Rep
- [09] Star
- [10] Enc
- [11] Per
- [12] Vol
- [13] Title
- [14] Autl
- [15] Issu
- [16] Pub

Subject Terms

| Selected Terms | # Records |
|------------------------------------|-----------|
| Cancer Epidemiol Biomarkers Prev | 7 |
| Cancer Epidemiol. Biomarkers Prev. | 6 |
| Cancer Causes Control. | 2 |
| Int J Cancer | 2 |
| Bioinformatics | 1 |
| Biomed Pharmacother. | 1 |
| Br J Cancer | 1 |
| Br. J. Cancer. | 1 |
| Breast Cancer Res Treat | 1 |
| Breast Cancer Res. | 1 |
| Cancer Res | 1 |
| Endocr Relat Cancer | 1 |
| Endocr Rev | 1 |
| Eur J Endocrinol | 1 |
| Eur J Epidemiol | 1 |
| Horm Res | 1 |
| Hum. Mol. Genet. | 1 |
| Int J Epidemiol | 1 |
| J Biol Chem | 1 |
| J Clin Endocrinol Metab | 1 |
| J Natl Cancer Inst | 1 |

0 Term(s) Selected

Generate a Subject Bibliography

BIBLIOMETRICS

a short introduction

Suzanne Bakker

Netherlands Cancer Institute



Demo/hands-on: login DIMDI

<http://www.dimdi.de>

Opt for CLASSIC SEARCH IN BROWSER or a TELNET session

Enter login name and password:

Usercode : QUB5XMS8

Password : q9qBHHoZ

SBAS IS74;IN73

```

Last login: Thu Mar 18 22:59:34 on console
Macintosh-3:~ suzannebakker$ telnet grips.dimdi.de
Trying 194.153.219.10...
Connected to gripsdb.dimdi.de.
Escape character is '^]'.
Hello from DIMDI! Please enter Usercode:

Please enter password
password =
Welcome to DIMDI ClassicSearch on 19.03.2010, 00:03:28
Customer number is S2DB1116; customer name is Antoni van I
Usercode used last on 18.03.2010 at 17:01:20
The following CHECKPOINTS are available:
CHPT20100314002418
CHPT20100316133456
CHPT20100318152239
CHPT20100318153901

```

```

Use SET ID= to activate id
Please enter command
? █

```

Telnet

```

-----Invalid DISPLAY-Parameter
-----

```

```
? d rf=vanwaarde d,19?
```

| D-NO | HITS | DESCRIPTOR |
|------|------|-----------------------------|
| D1 | 1 | VANWAARDE D,1974,V,P |
| D2 | 1 | VANWAARDE D,1975,V,P |
| D3 | 1 | VANWAARDE D,1975,V,P 205 |
| D4 | 5 | VANWAARDE D,1975,V,P205 |
| D5 | 1 | VANWAARDE D,1975,V9,P51 |
| D6 | 3 | VANWAARDE D,1976,V 9,P 51 |
| D7 | 1 | VANWAARDE D,1976,V,P |
| D8 | 30 | VANWAARDE D,1976,V9,P51 |
| D9 | 1 | VANWAARDE D,1977,V 50,P 141 |
| D10 | 11 | VANWAARDE D,1977,V5,P141 |
| D11 | 2 | VANWAARDE D,1977,V5,P727 |
| D12 | 41 | VANWAARDE D,1977,V50,P141 |
| D13 | 1 | VANWAARDE D,1977,V50,P151 |
| D14 | 3 | VANWAARDE D,1977,V50,P272 |
| D15 | 40 | VANWAARDE D,1977,V50,P727 |
| D16 | 7 | VANWAARDE D,1978,V24,P197 |
| D17 | 1 | VANWAARDE D,1978,V8,P |
| D18 | 1 | VANWAARDE D,1978,V8,P423 |
| D19 | 15 | VANWAARDE D,1978,V8,P432 |
| D20 | 2 | VANWAARDE D,1978,V84,P432 |

```

Please enter MORE or select descriptor number(s):
? █

```