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Harvard Rides High in Latest "Top Ten" Research Roundup

On two previous occasions—1994 and 1998—this publication has presented "Top Ten" rankings of the top 100 federally funded U.S. universities, based on the citation impact of their published research in major fields of science and the social sciences. *Science Watch* now offers the latest two-part collection of rankings, showing the universities whose research papers attracted citations at a rate notably above the world average in each field over the last five years. In all, 21 fields are represented. Nine rankings in the biological sciences appear on page 2. Additional rankings in the physical and social sciences will appear in the next issue.

As the table at right shows, Harvard University posted the highest number of Top Ten appearances, showing up in 15 of the 21 rankings. Stanford University was second, with 11 appearances. This repeats the results seen in the last set of rankings in 1998, when Harvard and Stanford also finished one-two in overall placements. The remaining schools in the table (that is, those with at least six Top Ten appearances) are also holdovers from the 1998 survey, with the exception of Columbia University and Duke University, both of which debut here among the top finishers.

This time, three schools that appeared among the elite in the 1998 survey narrowly missed the six-or-more-fields threshold for inclusion in the new table: Cornell University and the University of Washington each scored five Top Ten placements, while the University of California, Santa Barbara, made the grade in four fields. (Note: the last survey, from the September/October and November/December 1998 issues, can be viewed online at www.sciencewatch.com.)

As in the previous surveys, Science Watch drew upon the exclusive publication and citation data in ISI's University Science Indicators database. In 21 fields (each defined by a discrete set of ISI-indexed journals), Science Watch calculated the citations-per-paper (impact) score for each university, based on papers published and cited between 1997 and 2001. The resulting figure was compared to a world baseline figure representing the impact for the field during the same period. This produced a "relative impact" score, expressed as a percentage. In clinical medicine, for example, papers from Harvard University were cited, on average, 9.78 times during 1997-2001. The world average for the field was 4.54. Harvard, therefore, scored 115% above the world average to win its first-place ranking in the field, fol-

Highest Impact U.S. Universities, 1997-2001

(Ranked by frequency of Top Ten appearances in 21 fields)

| Rank | University | Top Ten Appearances | | | |
|------|-------------------------|------------------------|--|--|--|
| 1 | Harvard University | 15 | | | |
| 2 | Stanford University | 11 | | | |
| 3 | MIT | 9 | | | |
| 4 | Univ. Calif., San Diego | 9 | | | |
| 5 | Yale University | 8 | | | |
| - 6 | Univ. Calif., Berkeley | 8 | | | |
| 7 | Columbia University | 8 | | | |
| 8 | Caltech | 7 | | | |
| 9 | University of Michigan | 7 | | | |
| 10 | Duke University | 6 | | | |

SOURCE: ISI University Science Indicators

lowed by the University of California, San Diego, which scored 106% above the world mark. (Tie scores in relative impact were settled in two ways: preference was given to universities that displayed a higher impact score before the "relative" figure was calculated and rounded off—e.g., in neurosciences, the University of Illinois's average of 12.50 cites per paper edged the Johns Hopkins University score of 12.46 citations. When the impact score itself happened to be identical, priority went to the school that produced the greater number of papers.)

In each field, in order to confine the analysis to universities that produced a substantial body of papers during the five-year period, *Science Watch* set a minimum threshold for number of papers produced. This threshold varied, reflecting differences from field to field in the number of journals used to define each field, and in the number of papers published in those journals.

A slightly different ranking for these 10 universities can be obtained by calculating their average showings (that is, by taking the sum of their ranks and dividing by the number of the number of appearances.) By this measure, Caltech scored the highest average placement, with a mark of 3.14, followed by Harvard at 3.40, then Duke and Yale (4.50 each), MIT (4.67), Stanford (5.36), UC Berkeley (5.63), UC San Diego (5.78), Columbia (6.38), and the University of Michigan (6.71).

Top Ten Universities in Biological Science Fields, 1997-2001

| Hanard University | Molecular Biology & Genetics >500 papers | | | |
|---|--|--|--|--|
| 2 Univ. Calif., San Diego 3 Tufts University 2,833 +103 3 Stanford University 7 (6 +97 5 Vanderbill University 9,719 +94 4 Vashington University 5 Vanderbill University 9,719 +94 5 Vanderbill University 9,719 +94 6 Columbia University 1 University of Iowa 9 University of Chicago 3,029 +85 7 University of Chicago 3,029 +85 8 Univ. Calif., San Francisco 8,203 +84 8 Bayfor College of Medicine 9 University of Washington 7,950 +84 10 University of Washington 10 University 10 University of Washington 10 University 10 University 10 University 10 University 10 University 10 Calife. NeC 1CT., Dallas 10 University 10 | Relative Impact (%) | | | |
| 3 Turts University | +179 | | | |
| 3 Toffs University Johns Holphos University Joh | | | | |
| 4 Johns Hopkins University 9,719 494 4 Washington University 9,719 497 5 Vanderbill University 3,298 497 5 Harvard University 2,133 479 5 Harvard University 3,494 5 Harvard University 2,133 479 5 Harvard University 3,494 5 Harvard University 3,494 4 Harvard University 4,492 4,55 9 Yale University 1,495 10 University of Mashington 7,950 494 9 Emory University 4,492 4,55 10 University 1,495 10 Vashiva University 1,495 10 Vashiva University 5,200 papers 10 University 1,495 10 Vashiva University 5,200 papers 10 University 1,495 10 Vashiva University 5,200 papers 10 University 1,495 10 Vashiva University 2,495 10 Vashiva University 2,495 10 Vashiva University 2,495 10 Vashington University 1,495 10 Vashiva University 2,495 10 Vashiva University 2,497 495 10 Vashiva University 3,495 10 Vashington University 1,497 471 10 SUNY Stony Brook 3,484 473 467 477 7 Univ. Calif., San Francisco 1,494 10 Vanderbili University 3,495 10 Vanderbili University 2,497 495 10 Vanderbili University 3,495 10 Vanderbili University 2,497 495 10 Vanderbili University 3,495 10 Vanderbili University 2,497 495 10 Vanderbili University 3,495 10 Vanderbili University 2,497 495 10 Vanderbili University 3,495 10 Vanderbili University 2,497 495 10 Vanderbili University 3,495 10 Vanderbili University 3, | +147 | | | |
| 5 Vanderbill University 3,298 +87 6 Learner University 2,133 +79 5 Harvard University 3,494 7 University of Chicago 3,029 +85 6 University of Chicago 327 +68 5 Landing of Chicago 327 +68 5 Landing of Chicago 327 +68 5 5 48 8 Baylor College of Medicine 434 +67 7 University of Chicago 327 +68 5 1,491 10 Univ resats Southwestern Med. Ctr., Dallas 3,615 +80 10 University 452 +55 8 Columbia University 1,218 Neutrosciences yalounty residual Ctr., Dallas yalounty residual Ctr., Dallas 415 +55 10 Veshiva University 1,218 1 Caltech 319 +124 1 Harvard University 518 +159 Rank Institution Papers | +136 | | | |
| Columbia University Chicago 3,029 +85 7 University of Chicago 3,029 +85 8 Baylor College of Medicine 434 +67 468 6 Columbia University 1,088 9 University of Washington 7,950 +84 9 Emory University 452 +55 10 Veshiva University 1,218 10 Univ. Texas Southwestern Med. Cir., Dalkas 3,815 +80 10 Univ. Texas Southwestern Med. Cir., Dalkas 3,815 +80 10 Univ. Texas Southwestern Med. Cir., Dalkas 3,815 +80 10 Univ. Texas Southwestern Med. Cir., Dalkas 415 +55 10 Veshiva University 1,218 128 | +129 | | | |
| 1 Caltech 319 +124 2 Relative papers Rank Institution Papers Rank Institution Papers Rank Institution Radian Radian | +125 | | | |
| 10 Univ Texas Southwestern Med. Ctr., Dallas Med. Ctr., Da | +110 | | | |
| 10 Univ Texas Southwestern Med. Ctr., Dallas 3,815 +80 10 Univ Texas Southwestern Med. Ctr., Dallas 3,815 +80 10 Univ Texas Southwestern Med. Ctr., Dallas 3,815 +80 10 Univ Texas Southwestern Med. Ctr., Dallas 523 10 Yeshiva University 523 | +107 | | | |
| Neurosciences | +83 | | | |
| Name | +80 +74 | | | |
| Rank Institution Papers Impact (%) Rank Institution Papers Relative Papers Rank Institution Papers Relative Rank Institution Papers Rank Institution Rank Institution Papers Institution Rank Institution Papers Institution Rank Institution R | , | | | |
| 2 Rockefeller University 537 +111 2 Rutgers University 664 +149 2 Duke University 212 3 MIT 429 +107 3 Univ. Calif., San Diego 654 +146 3 Univ. Calif., San Diego 205 4 Univ. Calif., San Francisco 1,424 +106 4 Indiana University 316 +135 4 University of Pennsylvania 229 5 Washington University 1,258 +105 5 Duke University 499 +123 5 Univ. Calif., San Francisco 385 6 Harvard University 2,997 +95 6 Univ. Calif., Berkeley 1,009 +117 6 Johns Hopkins University 313 7 Yale University 1,738 +76 7 Univ. Calif., San Relative Inversity 4 +106 8 University of Colorado 281 9 Univ. Illinois, Urbana 315 +71 9 Woods Hole Ocean. Inst. 535 +104 9 | Relative Impact (%) | | | |
| 2 Rockefeller University 537 +111 2 Rutgers University 664 +149 3 Univ. Calif., San Diego 654 +146 3 Univ. Calif., San Diego 205 4 Univ. Calif., San Francisco 1,424 +106 4 Indiana University 316 +135 4 University 6Fennsylvania 229 5 Washington University 1,258 +105 5 Duke University 499 +123 5 Univ. Calif., San Francisco 385 6 Harvard University 2,997 +95 6 Univ. Calif., Berkeley 1,009 +117 6 Johns Hopkins University 1,738 +76 7 Univ. Calif., Berkeley 39 +117 7 University 6Fennsylvania 229 9 Univ. Illinois, Urbana 315 +771 9 Woods Hole Ocean. Inst. 535 +104 9 University of Michigan 449 10 Johns Hopkins University 1,897 +771 10 SUNY Story Brook 318 +100 10 University of Cincinnati 201 Agricultural Sciences > 300 papers | +126 | | | |
| 3 MIT 429 | +107 | | | |
| 4 Univ. Calif., San Francisco 1,424 +106 4 Indiana University 316 +135 4 University of Pennsylvania 229 5 Washington University 1,258 +105 5 Duke University 499 +123 5 Univ. Calif., San Francisco 385 6 Harvard University 2,997 +95 6 Univ. Calif., Berkeley 1,009 +117 6 Johns Hopkins University 313 7 Yale University 1,738 +76 7 Univ. Calif., Los Angeles 398 +117 7 University of Colorado 281 8 Oregon Health Sci. Univ. 729 +72 8 University of Arizona 748 +106 8 University of Washington 394 Agricultural Sciences Ecology/Environment 535 +104 9 University of Michigan 449 Agricultural Sciences Ecology/Environment San Relative Impact (%) Relative Impact (%) Relative Impact (%) | | | | |

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Physical Sciences at U.S. Universities: Harvard, Stanford Top the "Top Tens"

Highest Impact Universities in Physical and Social Science Fields, 1997-2001

| | Physics >500 paper | | | Chemistry >500 papers | | | | | | |
|------|-----------------------------|----------------|------------------------|--------------------------|------------------------------|----------------|------------------------|--|--|--|
| Rani | c Institution | # of Papers | Relative Impact (%) | Rani | c Institution | # of Papers | Relative Impact (%) | | | |
| 1 | Rice University | 520 | +291 | 1 | Yale University | 778 | +227 | | | |
| 2 | Univ. Calif., Santa Cruz | 2,519 | +284 | 2 | Caltech | 1,115 | +204 | | | |
| 3 | University of Pennsylvania | 1,100 | +231 | 3 | Harvard University | 1,108 | +202 | | | |
| 4 | Harvard University | 1,771 | +223 | 4 | MIT | 1,723 | +159 | | | |
| 5 | Boston University | 1,175 | +219 | 5 | Univ. Calif., San Diego | 899 | +148 | | | |
| 6 | Stanford University | 2,645 | +187 | 6 | Northwestern University | 1,229 | +138 | | | |
| 7 | Univ. Calif., Santa Barbara | 2,519 | +187 | 7 | Univ. Calif., Santa Barbara | 915 | +127 | | | |
| 8 | University of Washington | 1,570 | +179 | 8 | Univ. Calif., Berkeley | 2,679 | +126 | | | |
| 9 | SUNY Stony Brook | 1,424 | +178 | 9 | Carnegie Mellon University | 649 | +125 | | | |
| 10 | Louisiana State University | 607 | +170 | 10 | U. North Carolina, Chapel Hi | ll 992 | +119 | | | |

This is the second of two installments in the latest "Top Ten" roundup of U.S. university research in 21 fields, as measured by the citation impact of research papers published and cited between 1997 and 2001. The first part of the survey appeared in the previous issue and presented Top Ten rankings in nine biological or biomedical fields (see Science Watch, 13[5]:1-2, September/October 2002). This second part features 12 listings in the physical and social sciences (11 tables, along with one ranking presented in the text below). Physics and chemistry appear above, with the other tables on page 2. All the rankings are based on "relative citation impact" that is, each university's average-citations-perpaper score for the five-year period compared, on a percentage basis, against the world impact average in each field. The rankings are based on exclusive publication and citation data on more than 100 U.S. universities in Thomson ISI's University Science Indicators, 1981-2001.

In terms of overall results, as was noted in the first part of the survey, Harvard scored the greatest number of Top Ten placements, appearing in 15 of the 21 fields. Stanford was second, with 11 placements. In all, 10 schools achieved particular distinction in the overall survey, with at least six Top Ten appearances each (Harvard, Stanford, MIT, Uni-

versity of California (UC) at San Diego, Yale, UC Berkeley, Columbia, Caltech, University of Michigan, and Duke). Collectively, these universities accounted for 88 Top Ten placements—more than 40% of the 210 available spots in the 21 fields.

As in the overall standings, Harvard and Stanford are the standout universities in the physical- and social-science rankings presented here: Harvard appears in eight of the listings, Stanford in seven. Four schools—Caltech, Columbia, MIT, and UC Berkeley—made the Top Ten in six of the accompanying fields.

Space limitations prevented a table for one of the social-science fields, Education. Of those universities that published at least 100 papers between 1997 and 2001 in education journals indexed by ISI, the University of Michigan ranked highest in relative impact, scoring 131% above the citationsper-paper average in the field. UCLA was next (92% above the field average), followed by Purdue (+80), the University of North Carolina, Chapel Hill (+76), the University of Wisconsin, Madison (+64), the University of Georgia (+62), the University of Texas, Austin (+62), Michigan State University (+56), University of Maryland, College Park (+52), and the University of Minnesota (+52).

Top Ten Universities in Physical and Social Science Fields, 1997-2001

| Geosciences >300 papers | | | | Space Science >500 papers | | | | Materials Science >300 papers | | | |
|-----------------------------------|----------------------------|----------------|------------------------|----------------------------------|-----------------------------|----------------|------------------------|----------------------------------|-----------------------------|----------------|------------------------|
| Rank | Institution | # of Papers | Relative Impact (%) | Rank | Institution | # of Papers | Relative Impact (%) | Rank | Institution | # of Papers | Relative Impact (%) |
| 1 | Harvard University | 504 | +195 | 1 | Univ. Calif., Santa Cruz | -624 | +130 | 1 | Univ. Calif., Santa Barbara | 379 | +302 |
| 2 | Princeton University | 555 | +151 | 2 | Univ. Calif., Berkeley | 1,328 | +123 | 2 | University of Minnesota | 353 | +167 |
| 3 | University of Washington | 1,215 | +137 | 3 | University of Hawaii | 574 | +123 | 3 | MIT | 667 | +127 |
| 4 | Columbia University | 794 | +123 | 4 | University of Michigan | 554 | +97 | 4 | Univ. Calif., Berkeley | 622 | +123 |
| 5 | MIT | 893 | +113 | 5 | Princeton University | 647 | +91 | 5 | North Carolina State Univ. | 562 | +75 |
| 6 | Caltech | 1,213 | +106 | 6 | Caltech | 2,390 | +72 | 6 | Northwestern University | 511 | +74 |
| 7 | Univ. Calif., San Diego | 980 | +106 | 7 | University of Arizona | 1,168 | +53 | 7 | Pennsylvania State Univ. | 877 | +74 |
| 8 | University of Colorado | 1,488 | +105 | 8 | University of Colorado | 777 | +51 | 8 | Univ. Illinois, Urbana | 539 | +62 |
| 9 | Woods Hole Ocean. Inst. | 953 | +102 | 9 | University of Chicago | 560 | +50 | 9 | University of Florida | 405 | +54 |
| 10 | University of Miami | 464 | +101 | 10 | Johns Hopkins University | 1,052 | +49 | 10 | University of Michigan | 409 | +48 |
| Mathematics >200 papers | | | | Engineering >300 papers | | | | Computer Science >100 papers | | | |
| Rank | Institution | # of Papers | Relative Impact (%) | Rank | Institution | # of Papers | Relative Impact (%) | Rank | r Institution | # of Papers | Relative Impact (%) |
| 1 | Caltech | 225 | +156 | 1 | Yale University | 314 | +249 | 1 | Princeton University | 188 | +236 |
| 2 | New York University | 336 | +138 | 2 | Univ. Calif., Santa Barbara | 698 | +154 | 2 | Caltech | 195 | +181 |
| 3 | Stanford University | 417 | +133 | 3 | Stanford University | 1,513 | +153 | 3 | Univ. Calif., Berkeley | 376 | +129 |
| 4 | Harvard University | 390 | +131 | 4 | Caltech | 1,352 | +144 | 4 | Univ. Illinois, Urbana | 331 | +127 |
| 5 | University of Washington | 299 | +120 | 5 | Harvard University | 475 | +128 | 5 | Columbia University | 149 | +118 |
| 6 | Cornell University | 400 | +120 | 6 | Cornell University | 957 | +121 | 6 | Stanford University | 407 | +100 |
| 7 | Columbia University | 261 | +102 | 7 | Princeton University | 840 | +120 | 7 | University of Pennsylvania | 156 | +97 |
| 8 | Univ. Calif., Los Angeles | 441 | +92 | 8 | University of Arizona | 757 | +107 | 8 | MIT | 574 | +82 |
| 9 | MIT | 471 | +84 | 9 | Univ. Calif., Los Angeles | 1,191 | +105 | 9 | Univ. Massachusetts, Amhe | rst 143 | +80 |
| 10 | Univ. Calif., Berkeley | 651 | +82 | 10 | Boston University | 397 | +104 | 10 | Univ. Calif., San Diego | 288 | +76 |
| Psychology/Psychiatry >300 papers | | | | Economics & Business >300 papers | | | | Law >100 papers | | | |
| Rank | Institution | # of Papers | Relative Impact (%) | Rank | Institution | # of Papers | Relative Impact (%) | Rani | k Institution | # of Papers | Relative Impact (% |
| 1 | Duke University | 704 | +107 | 1 | University of Chicago | 525 | +229 | 1 | Yale University | 187 | +146 |
| 2 | Harvard University | 1,869 | +107 | 2 | Harvard University | 1,029 | +152 | 2 | Harvard University | 282 | +111 |
| 3 | University of Pittsburgh | 1,104 | +107 | 3 | MIT | 647 | +129 | 3 | University of Chicago | 299 | +105 |
| 4 | Carnegie Mellon University | 319 | +103 | 4 | Northwestern University | 520 | +128 | 4 | University of Michigan | 141 | +104 |
| 5 | Virginia Commonwealth Univ | | +95 | 5 | Stanford University | 604 | +128 | 5 | Univ. Texas, Austin | 151 | +100 |
| 6 | Yale University | 1,240 | +95 | 6 | University of Pennsylvania | 729 | +123 | 6 | University of Virginia | 193 | +95 |
| 7 | Columbia University | 1,197 | +93 | 7 | Columbia University | 510 | +115 | 7 | Columbia University | 184 | +87 |
| | Case Western Reserve U. | 375 | +88 | 8 | Duke University | 312 | +112 | 8 | New York University | 177 | +74 |
| 8 | | | | | • | | | 1 | • | | |
| 8 9 | Stanford University | 940 | +87 | 9 | Univ. Calif., Berkeley | 592 | +107 | 9 | Cornell University | 121 | +54 |

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