

**NATIONAL RANKINGS IN MOLECULAR BIOLOGY & GENETICS
1997-2007
BASED ON CITATIONS PER PAPER
AMONG NATIONS WITH 25,000 OR MORE CITATIONS**

Rank	Nation	Papers	Citations	Citations Per Paper
1	SWITZERLAND	6,657	224,704	33.75
2	USA	122,119	4,089,990	33.49
3	ENGLAND	23,920	774,882	32.39
4	SCOTLAND	4,592	147,215	32.06
5	AUSTRIA	2,538	80,830	31.85
6	IRELAND	805	25,494	31.67
7	ISRAEL	3,770	113,777	30.18
8	GERMANY	26,261	724,598	27.59
9	NETHERLANDS	7,414	204,155	27.54
10	DENMARK	2,894	79,171	27.36
11	CANADA	14,016	369,947	26.39
12	FRANCE	18,975	494,274	26.05
13	FINLAND	2,694	69,805	25.91
14	SWEDEN	5,487	139,189	25.37
15	BELGIUM	3,697	86,525	23.40
16	AUSTRALIA	6,868	159,421	23.21
17	NORWAY	1,523	32,875	21.59
18	JAPAN	26,009	560,111	21.54
19	ITALY	11,615	231,703	19.95
20	SPAIN	7,247	136,830	18.88

The data above were extracted from Thomson Scientific's Essential Science Indicators database. This database, currently covering the period January 1997 to December 2007, surveys only journal articles (original research reports and review articles) indexed by Thomson Scientific. Articles are assigned to a category based on the journals in which they were published and Thomson Scientific's journal-to-category field definition scheme. Both articles tabulated and citation counts to those articles are for the period indicated. Here our ranking in molecular biology and genetics is by citations per paper -- among nations that collected 25,000 or more citations -- to reveal weighted impact. For articles with multiple authors from different nations, each nation receives full, not fractional, citation credit. Essential Science Indicators lists nations ranked in the top 50% for a field over a given period, based on total citations. In molecular biology and genetics, 88 nations are listed, meaning 176 were surveyed. Twenty-four nations earned at least 25,000 citations.

In this analysis, Switzerland beats the United States in impact by a nose, while England and Scotland are seen to be nipping at America's heels. The remainder of the top ten, with the exception of Germany, demonstrate that size does not always translate into per paper influence: witness Ireland, with just over 800 papers but more than 25,000 citations, and an impact score placing it 6th in the world

Those not included in the ranking above are South Korea, China, Brazil, and Russia, ranked 21st through 24th, respectively, in cites per paper. South Korea's 3,395 papers attracted 37,291 citations, for an impact score of 10.98. China earned 55,014 citations for its 6,081 papers, for an impact of 9.05. Brazil had an impact of 7.34 for 27,259 citations to 3,712 papers. Russia published 6,224 papers that earned 40,470 citations, for an impact score of 6.50. By output, these four, if included, would have ranked 12th, 13th, 17th, and 19th (Russia, China, Brazil, and South Korea, in order). By citations, the four, if included, would have ranked 19th, 20th, 21st, and 23rd (China, Russia, South Korea, and Brazil, in order). In this field, Russia and China are world-class producers, but they have yet to become world-class in citation impact.

For more information on Thomson Scientific's Essential Science Indicators, see <http://scientific.thomson.com/products/esj>.