

Intra-regional scientific collaboration in Western Europe: 1994 and 2001

Country	International articles	Belgium	Denmark	Finland	France	Germany	Ireland	Italy	Netherlands	Norway	Portugal	Spain	Sweden	Switzerland	United Kingdom
	Number	Percent													
Belgium															
1994	2,889	na	2.7	1.9	26.0	14.5	0.9	8.3	16.7	1.5	1.7	5.4	5.4	6.1	13.9
2001	4,724	na	3.1	2.7	23.6	17.3	1.1	9.5	15.8	1.6	1.7	6.4	6.1	5.6	16.7
Change.....	1,835	na	0.4	0.8	-2.3	2.8	0.1	1.2	-0.9	0.1	0.0	1.0	0.7	-0.5	2.8
Denmark															
1994	2,310	3.4	na	4.5	10.5	16.8	1.0	7.1	7.5	7.0	1.4	4.2	17.4	4.8	16.8
2001	3,609	4.0	na	5.8	11.1	17.9	1.1	7.8	8.6	6.9	1.5	5.2	14.6	5.3	19.1
Change.....	1,299	0.6	na	1.2	0.5	1.1	0.2	0.7	1.1	-0.1	0.1	1.0	-2.8	0.5	2.2
Finland															
1994	1,571	3.4	6.7	na	8.9	11.6	0.8	5.7	6.2	5.2	1.4	4.6	19.0	5.9	11.1
2001	2,892	4.4	7.2	na	10.0	16.4	1.3	7.7	8.4	5.4	1.8	5.3	19.4	6.2	15.7
Change.....	1,321	1.0	0.5	na	1.0	4.8	0.5	2.0	2.2	0.2	0.4	0.6	0.4	0.3	4.5
France															
1994	11,135	6.7	2.2	1.3	na	13.3	0.4	9.1	5.1	1.0	1.2	6.7	3.1	6.8	12.1
2001	17,918	6.2	2.2	1.6	na	15.3	0.6	11.3	5.0	1.3	1.6	7.2	3.8	6.4	13.9
Change.....	6,783	-0.5	0.0	0.4	na	2.1	0.1	2.1	-0.1	0.3	0.3	0.5	0.7	-0.4	1.8
Germany															
1994	13,591	3.1	2.9	1.3	10.9	na	0.5	6.9	5.9	1.2	0.6	3.5	3.8	8.4	11.3
2001	23,887	3.4	2.7	2.0	11.5	na	0.5	8.0	6.6	1.2	0.8	4.4	4.3	7.6	13.0
Change.....	10,296	0.3	-0.2	0.6	0.6	na	0.1	1.1	0.8	0.0	0.2	0.9	0.5	-0.8	1.7
Ireland															
1994	545	5.0	4.0	2.2	8.8	12.1	na	4.6	6.8	1.7	1.8	3.9	3.3	5.0	40.2
2001	1,065	4.8	3.8	3.5	9.8	12.2	na	8.8	7.4	2.7	2.0	5.3	6.2	3.5	42.8
Change.....	520	-0.2	-0.2	1.3	1.0	0.1	na	4.2	0.6	1.1	0.1	1.4	2.9	-1.5	2.6
Italy															
1994	6,734	3.5	2.4	1.3	15.1	13.8	0.4	na	5.1	1.0	0.9	6.3	3.6	8.4	15.2
2001	11,269	4.0	2.5	2.0	17.9	16.9	0.8	na	6.8	1.5	1.3	8.3	4.3	7.3	17.2
Change.....	4,535	0.4	0.1	0.7	2.8	3.0	0.5	na	1.7	0.4	0.4	2.0	0.7	-1.2	2.0
Netherlands															
1994	4,659	10.4	3.7	2.1	12.2	17.1	0.8	7.4	na	2.3	1.2	4.7	5.2	5.9	18.1
2001	7,692	9.7	4.0	3.1	11.7	20.6	1.0	9.9	na	2.2	1.7	5.8	5.2	5.2	20.2
Change.....	3,033	-0.7	0.3	1.1	-0.6	3.5	0.2	2.6	na	-0.1	0.5	1.1	0.0	-0.7	2.0
Norway															
1994	1,313	3.3	12.3	6.2	8.7	12.1	0.7	5.3	8.1	na	1.8	4.0	21.3	5.8	15.3
2001	2,112	3.6	11.8	7.3	10.9	13.1	1.4	7.8	8.0	na	1.8	4.4	21.6	5.3	20.7
Change.....	799	0.3	-0.5	1.2	2.3	1.0	0.7	2.4	-0.1	na	0.0	0.4	0.3	-0.5	5.4
Portugal															
1994	570	8.6	5.6	3.9	24.4	14.7	1.8	10.2	9.8	4.0	na	13.5	7.7	8.6	25.4
2001	1,619	4.9	3.3	3.2	17.7	12.4	1.3	8.8	8.3	2.3	na	17.2	6.2	4.5	24.2
Change.....	1,049	-3.7	-2.3	-0.7	-6.7	-2.3	-0.5	-1.3	-1.5	-1.7	na	3.7	-1.5	-4.1	-1.2

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	Number	Percent													
Spain															
1994	3,651	4.3	2.6	2.0	20.4	13.2	0.6	11.6	5.9	1.5	2.1	na	4.2	5.2	17.7
2001	7,508	4.0	2.5	2.0	17.2	14.1	0.7	12.5	5.9	1.2	3.7	na	3.8	5.1	17.2
Change.....	3,857	-0.2	-0.2	0.0	-3.2	0.9	0.2	0.9	0.0	-0.2	1.6	na	-0.4	-0.1	-0.5
Sweden															
1994	4,073	3.8	9.8	7.3	8.4	12.6	0.4	5.9	5.9	6.9	1.1	3.8	na	5.0	12.7
2001	6,524	4.4	8.1	8.6	10.4	15.8	1.0	7.4	6.1	7.0	1.5	4.4	na	4.3	15.8
Change.....	2,451	0.6	-1.8	1.3	2.0	3.2	0.6	1.5	0.2	0.1	0.5	0.6	na	-0.7	3.1
Switzerland															
1994	4,474	3.9	2.5	2.1	16.9	25.4	0.6	12.7	6.1	1.7	1.1	4.2	4.5	na	13.1
2001	6,455	4.1	3.0	2.8	17.7	28.1	0.6	12.7	6.2	1.7	1.1	5.9	4.3	na	14.6
Change.....	1,981	0.2	0.5	0.7	0.8	2.7	0.0	0.0	0.1	0.0	0.0	1.7	-0.2	na	1.5
United Kingdom															
1994	13,253	3.0	2.9	1.3	10.1	11.6	1.7	7.7	6.4	1.5	1.1	4.9	3.9	4.4	na
2001	22,328	3.5	3.1	2.0	11.2	13.9	2.0	8.7	6.9	2.0	1.8	5.8	4.6	4.2	na
Change.....	9,075	0.5	0.1	0.7	1.0	2.3	0.4	1.0	0.6	0.4	0.7	0.9	0.7	-0.2	na

na not applicable

NOTES: Data are share of indicated country's articles internationally coauthored with other countries in the same region. Internationally coauthored articles are on a whole-count basis, where each coauthor's country is credited with a whole count. Because of the high degree of intra European collaboration, shares exceed 100 percent in some cases.

SOURCES: Institute for Scientific Information, Science Citation Index and Social Sciences Citation Index; CHI Research, Inc.; and National Science Foundation, Division of Science Resources Statistics, special tabulations.

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