

Supplemental Table 1

Journal tier	Category	Pub Year	Total publications	Single country	% Single country	Intl collab	%Intl collab	US only	% US only	US+ Intl	%US+ Intl	CN only	% CN only	CN+ Intl	% CN+ Intl
Upper	basic	2000	2093	1499	72%	594	28%	987	47%	258	12%	8	0.4%	3	0.1%
Upper	clinical	2000	1137	884	78%	253	22%	436	38%	69	6%	4	0.4%	0	0.0%
	Total	2000	3230	2383	74%	847	26%	1423	44%	327	10%	12	0.4%	3	0.1%
Upper	basic	2005	2070	1317	64%	753	36%	878	42%	324	16%	11	0.4%	8	0.3%
Upper	clinical	2005	710	460	65%	250	35%	286	40%	74	10%	1	0.0%	3	0.1%
	Total	2005	2780	1777	64%	1003	36%	1164	42%	398	14%	12	0.4%	11	0.4%
Upper	basic	2010	1862	1125	60%	737	40%	773	42%	351	19%	21	0.9%	18	0.7%
Upper	clinical	2010	599	338	56%	261	44%	226	38%	91	15%	2	0.1%	2	0.1%
	Total	2010	2461	1463	59%	998	41%	999	41%	442	18%	23	0.9%	20	0.8%
Upper	basic	2013	1948	1136	58%	812	42%	782	40%	384	20%	26	1.0%	49	1.9%
Upper	clinical	2013	606	337	56%	269	44%	194	32%	92	15%	10	0.4%	4	0.2%
	Total	2013	2554	1473	58%	1081	42%	976	38%	476	19%	36	1.4%	53	2.1%
Upper	basic	2015	1947	1052	54%	895	46%	741	38%	421	22%	30	1.2%	42	1.6%
Upper	clinical	2015	642	329	51%	313	49%	214	33%	106	17%	5	0.2%	5	0.2%
	Total	2015	2589	1381	53%	1208	47%	955	37%	527	20%	35	1.4%	47	1.8%
Journal tier	Category	Pub Year	Total publications	Single country	% Single country	Intl collab	%Intl collab	US only	% US only	US+ Intl	%US+ Intl	CN only	% CN only	CN+ Intl	% CN+ Intl
Mid	basic	2000	580	415	72%	165	28%	172	30%	34	6%	0	0.0%	0	0.0%
Mid	clinical	2000	603	516	86%	87	14%	198	33%	20	3%	1	0.1%	0	0.0%
	Total	2000	1183	931	79%	252	21%	370	31%	54	5%	1	0.1%	0	0.0%
Mid	basic	2005	915	662	72%	253	28%	232	25%	50	5%	2	0.1%	2	0.1%
Mid	clinical	2005	580	446	77%	134	23%	180	31%	30	5%	0	0.0%	0	0.0%
	Total	2005	1495	1108	74%	387	26%	412	28%	80	5%	2	0.1%	2	0.1%
Mid	basic	2010	796	516	65%	280	35%	211	27%	63	8%	11	0.9%	10	0.8%
Mid	clinical	2010	451	342	76%	109	24%	160	35%	24	5%	2	0.2%	1	0.1%
	Total	2010	1247	858	69%	389	31%	371	30%	87	7%	13	1.0%	11	0.9%
Mid	basic	2013	881	597	68%	284	32%	248	28%	78	9%	24	1.8%	15	1.1%
Mid	clinical	2013	465	367	79%	98	21%	212	46%	33	7%	2	0.1%	4	0.3%
	Total	2013	1346	964	72%	382	28%	460	34%	111	8%	26	1.9%	19	1.4%
Mid	basic	2015	761	546	72%	215	28%	194	25%	52	7%	35	3.1%	14	1.2%
Mid	clinical	2015	381	296	78%	85	22%	184	48%	26	7%	1	0.1%	2	1.4%
	Total	2015	1142	842	74%	300	26%	378	33%	78	7%	36	3.2%	16	1.4%

Supplemental Table 2

Year	Journal Tier	Category	21+	11+	6+	1+	Total Papers
2000	High	basic	40 (2%)	145 (7%)	643 (31%)	1265 (60%)	2093
2000	High	clinical	10 (1%)	148 (13%)	437 (38%)	542 (48%)	1137
2005	High	basic	82 (4%)	247 (12%)	660 (32%)	1081 (52%)	2070
2005	High	clinical	37 (5%)	223 (31%)	289 (41%)	161 (23%)	710
2010	High	basic	146 (8%)	363 (19%)	649 (35%)	704 (38%)	1862
2010	High	clinical	87 (15%)	219 (37%)	192 (32%)	101 (17%)	599
2013	High	basic	186 (10%)	499 (26%)	680 (35%)	583 (30%)	1948
2013	High	clinical	139 (23%)	242 (40%)	139 (23%)	86 (14%)	606
2015	High	basic	264 (14%)	511 (26%)	696 (36%)	476 (24%)	1947
2015	High	clinical	181 (28%)	229 (36%)	159 (25%)	73 (11%)	642
2000	Mid	basic	0 (0%)	24 (4%)	211 (36%)	345 (59%)	580
2000	Mid	clinical	1 (0%)	20 (3%)	177 (29%)	405 (67%)	603
2005	Mid	basic	3 (0%)	82 (9%)	433 (47%)	397 (43%)	915
2005	Mid	clinical	5 (1%)	46 (8%)	208 (36%)	321 (55%)	580
2010	Mid	basic	3 (0%)	124 (16%)	398 (50%)	271 (34%)	796
2010	Mid	clinical	8 (2%)	59 (13%)	189 (42%)	195 (43%)	451
2013	Mid	basic	5 (1%)	142 (16%)	446 (51%)	288 (33%)	881
2013	Mid	clinical	6 (1%)	51 (11%)	181 (39%)	227 (49%)	465
2015	Mid	basic	3 (0%)	127 (17%)	393 (52%)	238 (31%)	761
2015	Mid	clinical	18 (5%)	58 (15%)	173 (45%)	132 (35%)	381

Supplemental Table 3

Rank	2000		2005		2010		2013		2015	
1	US	370	US	412	US	371	US	460	US	378
2	GB	248	GB	221	GB	117	GB	110	GB	82
3	DE	54	DE	73	DE	43	CA	60	CA	48
4	IT	34	CA	54	CA,FR	38	JP	48	JP	38
5	FR	33	IT,FR	47	JP	34	FR	41	CN	36
6	CA	28	JP	44	AU	31	DE	40	DE,FR	30
7	JP	27	NL	36	NL	29	CN	26	NL	27
8	NL	22	IL	23	IT	28	AU	24	IT	24
9	AU	13	AU,SE	17	ES,SE	14	NL	21	ES	23
10	CH,ES,FI	12	CH	16	CH,CN	13	IT	20	AU	18
Total papers	1183		1495		1247		1346		1142	
%US	31%		28%		30%		34%		33%	

Supplemental Information:

Determination of Citation Numbers:

Citations were manually identified by reviewing the journal's table of contents to identify research papers (including brief reports and research letters. Non-research papers (eg review articles, commentaries or editorials, non-research letters, etc) were excluded. The PDF or HTML version of each article was examined and citation characteristics, including number of authors, and the nationalities of the corresponding author, and of all other authors, were recorded. If a corresponding author listed more than one affiliation, the affiliation matching the email address was recorded. If other authors listed more than one affiliation, the first affiliation was recorded. If no corresponding author was identified, the last author's affiliation was used. For papers authored by consortia or groups, only the affiliations of those authors included in the author block were recorded; if the paper was authored corporately, the writing committee's affiliations were recorded if present; otherwise the citation was excluded from analysis.

Statistical Methods:

The slopes for the percent of manuscripts/year were estimated through a linear regression analysis. The significance of the slope for the regression line was calculated using the one sample hypothesis testing for linear correlation and a t-test with null hypothesis that the slope of line regression is equal to zero. The table below lists the calculated values:

Author-based	Journal Impact	Slope	p-value
US-only	Top	-0.46	0.007
	Mid	0.24	0.278
US-Int	Top	0.67	0.001
	Mid	0.19	0.050
China-only	Top	0.08	0.017
	Mid	0.19	0.036
China-Int	Top	0.13	0.028
	Mid	0.11	0.008
US-only + US-Int	Top	0.22	0.165
	Mid	0.43	0.145
China-only + China-Int	Top	0.21	0.001
	Mid	0.32	0.024