

Supplementary Information to: Revive universities of the Muslim world (Comment in *Nature* 526, 634–635; 2015)

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Table 1. Scientific research output in countries of the Muslim world.

Country	Papers	Papers	Papers Ratio	Citations	Citations	Citations per Paper	Citations per Paper	GDP per Capita (\$)	GDP per Capita (\$)	Papers / GDP per capita	Papers / GDP per capita
	1996-2005	2006-2015	2006-15 / 1996-2005	1996-2005	2006-2015	1996-2005	2006-2015	2000	2010	1996-2005	2006-2015
Turkey	32,128	103,624	3.2	488,841	580,000*	15.2	5.6	4,220	10,136	7.6	10.2
Iran	12,429	94,286	7.6	188,253	568,000	15.1	6.0	1,537	5,675	8.1	16.6
Egypt	15,684	32,251	2.1	180,859	185,056	11.5	5.7	1,510	2,804	10.4	11.5
Saudi Arabia	8,438	31,425	3.7	77,561	182,422	9.2	5.8	9,355	19,327	0.9	1.6
Malaysia	5,928	34,141	5.8	89,385	171,813	15.1	5.0	4,005	8,754	1.5	3.9
Pakistan	3,933	25,732	6.5	54,854	139,854	13.9	5.4	514	1,023	7.7	25.2
Tunisia	4,524	14,139	3.1	51,945	68,023	11.5	4.8	2,248	4,212	2.0	3.4
Morocco	6,867	8,913	1.3	75,189	53,361	10.9	6.0	1,276	2,823	5.4	3.2
Indonesia	2,576	6,643	2.6	55,410	55,038	21.5	8.3	790	2,947	3.3	2.3
Algeria	3,417	9,901	2.9	39,104	48,845	11.4	4.9	1,727	4,350	2.0	2.3
Jordan	2,371	4,918	2.1	24,430	30,898	10.3	6.3	1,763	4,371	1.3	1.1
Senegal	955	1,549	1.6	18,162	11,824	19.0	7.6	475	999	2.0	1.6
Syria	502	1,127	2.2	8,278	5,879	16.5	5.2	1,180**	2,066**	0.4	0.5
Lebanon	1,422	3,310	2.3	24,832	23,485	17.5	7.1	5,335	8,756	0.3	0.4
Country	Papers	Papers	Papers Ratio	Citations	Citations	Citations per Paper	Citations per Paper	GDP per Capita (\$)	GDP per Capita (\$)	Papers / GDP per capita	Papers / GDP per capita
Iraq	415	2,422	5.8	3,440	6,455	8.3	2.7	1,370	4,474	0.3	0.5
United Arab Emirates	1,908	4,689	2.5	24,711	33,890	13.0	7.2	34,476	33,886	0.1	0.1
Oman	1,137	2,286	2.0	13,960	12,684	12.3	5.5	8,897	20,923	0.1	0.1
Kuwait	2,676	3,226	1.2	29,325	15,318	11.0	4.7	19,787	38,585	0.1	0.1
Qatar	364	2,818	7.7	2,883	17,155	7.9	6.1	29,914	71,510	0.01	0.04
Bahrain	330	767	2.3	2,498	3,254	7.6	4.2	13,563	20,546	0.02	0.04
Brazil	73,822	171,879	2.3	1,320,000*		17.9		3,695	10,978	20.0	15.7
Spain	156,313	261,644	1.7					14,788	30,736	10.6	8.5
South Korea	97,321	221,073	2.3					11,948	22,151	8.1	10.0
South Africa	24,820	47,765	1.9	513,927	461,455	20.7	9.7	3,099	7,390	8.0	6.5
Israel	60,051	67,462	1.1	1,864,665	932,124	31.1	13.8	20,902	30,551	2.9	2.2

Source: Papers and Citations figures from Thomson Reuters ISI Web of Science Web of Science database. In a few cases, citation numbers could not be determined, as the database does not give results when the number of papers exceeds 10,000 for a given set of parameters. GDP per capita figures from World Bank Database, <http://data.worldbank.org/>

*Estimated (proportionately).

**Closest date.