

Supplementary Materials

Large Language Models As Artificial Intelligence Tools In Academic Research And Publishing: A Survey Amongst Global Researchers

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Supplementary Table S1. Characteristics of survey respondents stratified by age group

Characteristics	Overall (N=226)	Age Group			p-value
		21-40 years old (n=133)	41-60 years old (n=86)	60+ years old (n=7)	
Region of origin					
African Region	30 (13.3)	15 (11.3)	14 (16.3)	1 (14.3)	0.366*
Algeria	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)	
Cameroon	2 (0.9)	2 (1.5)	0 (0.0)	0 (0.0)	
Ethiopia	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)	
Ghana	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)	

Kenya	3 (1.3)	3 (2.3)	0 (0.0)	0 (0.0)
Nigeria	15 (6.6)	4 (3.0)	11 (12.8)	0 (0.0)
Rwanda	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
South Africa	3 (1.3)	1 (0.8)	1 (1.2)	1 (14.3)
Tanzania	3 (1.3)	2 (1.5)	1 (1.2)	0 (0.0)
Region of the Americas	53 (23.5)	25 (18.8)	24 (27.9)	4 (57.1)
Argentina	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
Brazil	5 (2.2)	3 (2.3)	2 (2.3)	0 (0.0)
Canada	6 (2.7)	3 (2.3)	3 (3.5)	0 (0.0)
Colombia	2 (0.9)	1 (0.8)	1 (1.2)	0 (0.0)
Ecuador	2 (0.9)	2 (1.5)	0 (0.0)	0 (0.0)
Guyana	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Mexico	7 (3.1)	4 (3.0)	3 (3.5)	0 (0.0)
Nicaragua	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Peru	2 (0.9)	2 (1.5)	0 (0.0)	0 (0.0)
United States	25 (11.1)	7 (5.3)	14 (16.3)	4 (57.1)
Venezuela	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
South-East Asian Region	53 (23.5)	36 (27.1)	16 (18.6)	1 (14.3)
Bangladesh	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)

	India	38 (16.8)	27 (20.3)	11 (12.8)	0 (0.0)
	Indonesia	3 (1.3)	1 (0.8)	1 (1.2)	1 (14.3)
	Nepal	9 (4.0)	7 (5.3)	2 (2.3)	0 (0.0)
	Sri Lanka	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
	Thailand	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
European Region		29 (12.8)	16 (12.0)	13 (15.1)	0 (0.0)
	Armenia	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
	Germany	4 (1.8)	2 (1.5)	2 (2.3)	0 (0.0)
	Greece	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
	Ireland	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
	Italy	6 (2.7)	4 (3.0)	2 (2.3)	0 (0.0)
	Macedonia	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
	Poland	2 (0.9)	0 (0.0)	2 (2.3)	0 (0.0)
	Portugal	4 (1.8)	4 (3.0)	0 (0.0)	0 (0.0)
	Russia	2 (0.9)	2 (1.5)	0 (0.0)	0 (0.0)
	Turkey	2 (0.9)	1 (0.8)	1 (1.2)	0 (0.0)
	United Kingdom	5 (2.2)	1 (0.8)	4 (4.7)	0 (0.0)
Eastern Mediterranean Region		41 (18.1)	27 (20.3)	13 (15.1)	1 (14.3)
	Bahrain	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)

Egypt	6 (2.7)	2 (1.5)	4 (4.7)	0 (0.0)
Iran	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Iraq	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Jordan	4 (1.8)	2 (1.5)	2 (2.3)	0 (0.0)
Kuwait	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Lebanon	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Oman	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
Pakistan	9 (4.0)	9 (6.8)	0 (0.0)	0 (0.0)
Qatar	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
Saudi Arabia	10 (4.4)	9 (6.8)	1 (1.2)	0 (0.0)
Sudan	3 (1.3)	0 (0.0)	2 (2.3)	1 (14.3)
Syria	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
United Arab Emirates	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)
Western Pacific Region	20 (8.8)	14 (10.5)	6 (7.0)	0 (0.0)
Australia	2 (0.9)	1 (0.8)	1 (1.2)	0 (0.0)
China	4 (1.8)	2 (1.5)	2 (2.3)	0 (0.0)
Malaysia	2 (0.9)	2 (1.5)	0 (0.0)	0 (0.0)
New Zealand	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)
Philippines	2 (0.9)	0 (0.0)	2 (2.3)	0 (0.0)

	South Korea	1 (0.4)	0 (0.0)	1 (1.2)	0 (0.0)	
	Taiwan	1 (0.4)	1 (0.8)	0 (0.0)	0 (0.0)	
	Vietnam	7 (3.1)	7 (5.3)	0 (0.0)	0 (0.0)	
Area of practice**						
Medical speciality		146 (64.6)	89 (66.9)	53 (61.6)	4 (57.1)	***
Surgical specialty		57 (25.2)	32 (24.1)	24 (27.9)	1 (14.3)	
Pharmacy		8 (3.5)	5 (3.7)	2 (2.3)	1 (14.3)	
Clinical research		62 (27.4)	37 (27.8)	24 (27.9)	1 (14.3)	
Other		14 (6.2)	9 (6.8)	4 (4.6)	1 (14.3)	
Type of practice**						
Academic (such as college or university)		129 (57.1)	74 (55.6)	50 (58.1)	5 (71.4)	****
Public/Community hospital, health center, or clinic		68 (30.1)	46 (34.6)	21 (24.4)	1 (14.3)	
Private hospital, health center, or clinic		56 (24.8)	29 (21.8)	26 (30.2)	1 (14.3)	
Non-profit organization		24 (10.6)	17 (12.8)	6 (7.0)	1 (14.3)	
Industry / pharmaceutical company		26 (11.5)	12 (9.0)	14 (16.3)	0 (0.0)	
Government, such as Ministry of Health		20 (8.8)	9 (6.8)	11 (12.8)	0 (0.0)	
Other		6 (2.7)	3 (2.3)	2 (2.3)	1 (14.3)	

Number of PubMed indexed publications	7 (2 - 18)	5 (2 - 12)	12 (3 - 38)	5 (1 - 15)	0.001
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Active years in medical research

0-5 years	106 (46.9)	88 (66.2)	15 (17.4)	3 (42.9)	<0.001
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6-10 years	71 (31.4)	39 (29.3)	32 (37.1)	0 (0.0)	
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10+ years	49 (21.7)	6 (4.5)	39 (45.4)	4 (57.1)	
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Awareness of the use of LLMs

Yes	198 (87.6)	118 (88.7)	74 (86.1)	6 (85.7)	0.688
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No	28 (12.4)	15 (11.3)	12 (13.9)	1 (14.3)	
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Abbreviations: LLMs, large language models. Data are presented in n (%) or median (interquartile range). *Statistical test assessed age group with region of origin, not country of origin. **May add up to more than 100% as respondents were able to select multiple options. ***No statistical test was conducted as respondents may select multiple options.