

Trust in genomic data sharing among members of the general public in the UK, USA, Canada and Australia

Supplementary Appendix

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1 Comparison with national census data

The YDYS sample was compared with the most recent available census data from each country:

- UK (2011 data; www.ons.gov.uk/census/2011census [accessed 13/09/2017])
- USA (2015 data; www.census.gov [accessed 13/09/2017])
- Canada (2016; <http://www12.statcan.gc.ca/census-recensement/index-eng.cfm> [accessed 13/09/2017])
- Australia (2016; <http://www.abs.gov.au/websitedbs/censushome.nsf/home/2016> [accessed 13/09/2017])

Table S1: Comparison of YDYS samples with most recent census data from each country: proportion of sample in age and gender categories by country of residence.

Variable	Categories	UK		USA		Canada		Australia	
		YDYS	Census	YDYS	Census	YDYS	Census	YDYS	Census
Age	30 and under	27	24.8	17.6	25.5	25.8	22.4	21.1	18
	31-40	20.9	16.4	30.3	16.2	22.3	15.8	20.4	19
	41-50	17.9	17.9	15.8	15.8	18.3	15.8	18	18
	51-60	17	14.6	20	16.8	16.5	18.1	16.4	17
	Over 60	17.2	26.3	16.2	25.7	16.9	28.1	24.2	28.2
Gender	Female	50.3	50.8	51.3	50.7	41.5	51.3	51.8	51
	Male	49	49.2	48.1	49.3	57.1	48.7	47.6	49

2 Descriptive statistics for full YDYS English-speaking sample

Table S2: Descriptive statistics for full sample

Variable	Categories	Number	Percentage
Country	United Kingdom	3316	37
	United States	1992	22.2
	Canada	2257	25.2
	Australia	1402	15.6
Age	Over 50	3252	36.3
	31-50	3616	40.3
	30 and under	2091	23.3
	Missing	8	0.1
Gender	Female	4328	48.3
	Male	4574	51
	Missing	65	0.7
Education	Yes	5173	57.7
	No	3784	42.2
	Missing	10	0.1
Ethnicity	White	7539	84.1
	Non-White	1315	14.7
	Missing	113	1.3
Religiosity	Not a religious person	5609	62.6
	A religious person	3349	37.3
	Missing	9	0.1

3 Latent Class Analysis Model Fitting

Table S3: Model fit indices for Latent Class Analysis models with one to five classes.

Number of classes	Log-likelihood	BIC	AIC	Entropy
1	-23989.89	48025.13	47989.78	NA
2	-21096.77	42293.32	42215.54	0.68
3	-20544.56	41243.31	41123.12	0.65
4	-20468.04	41144.70	40982.08	0.61
5	-20458.52	41180.09	40975.05	0.70

Figure S1: Model identification plot for Latent Class Analysis models with two to five classes

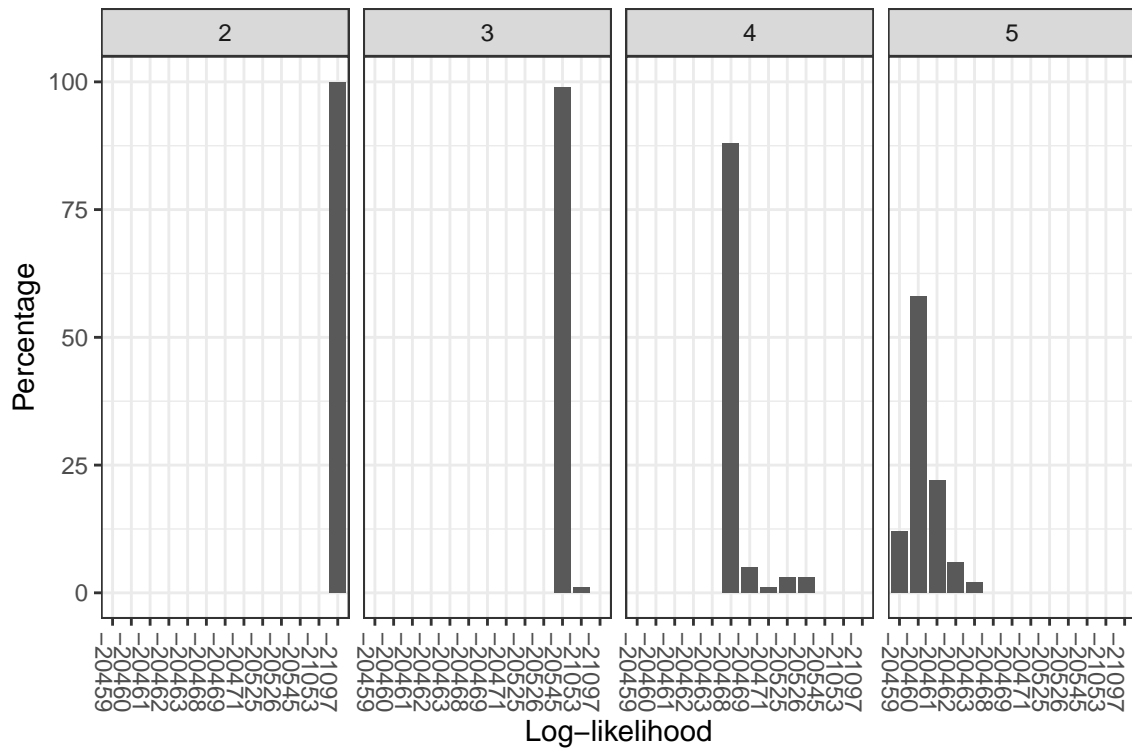


Table S4: Class membership and item response probabilities for 3-class model.

Category	Class 1	Class 2	Class 3
Class membership sample proportion	0.41	0.43	0.16
My medical doctor	0.46	0.96	0.95
Any medical doctor in my country	0.01	0.61	0.83
Any researcher at a university in my country	0.04	0.42	0.91
Any researcher at a company in my country	0.02	0.04	0.69
The government of my country	0.02	0.15	0.74

Table S5: Class membership and item response probabilities for 4-class model.

Category	Class 1	Class 2	Class 3	Class 4
Class membership sample proportion	0.34	0.05	0.48	0.14
My medical doctor	1.00	0.74	0.46	0.99
Any medical doctor in my country	0.65	0.41	0.01	0.91
Any researcher at a university in my country	0.43	0.45	0.03	0.97
Any researcher at a company in my country	0	0.34	0.01	0.70
The government of my country	0.13	0.38	0.01	0.76