The International Genetic Literacy and Attitudes Survey (iGLAS) 1.2

iGLAS began development in late 2015 and has been used for data collection for over 3 years. It has progressed through 9 different versions and is currently on version 3. iGLAS is intended to be a flexible measure of public knowledge of and attitudes towards genetics. It is flexible and responsive to specific research questions and includes branching and skip logic to present additional items to specific participants (e.g. lawyers and law students).

This data dictionary id for iGLAS version 1.2.

The validation paper for iGLAS (Chapman, Likhanov, Selita, Smith-Woolley, & Kovas, 2017) can be accessed at https://www.futureacademy.org.uk/files/images/upload/ICPE2017F6.pdf.

Where there is a correct response, as is the case with the Genetic Knowledge Section, the correct response is underlined. Variable values are shown in **bold**.

Contents

To find particular items please use CTRL F (cmd F on Mac) to search this document.

Demographic details

Variable name	Item / Question	Response / Answer	Comments
StartDate	Start Date		Qualtrics generated
EndDate	End Date		Qualtrics generated
Status	Response type		Qualtrics generated
IPAddress	IP Address		Qualtrics generated

Progress	Progress			Qualtrics generated
Duration__in_seconds_	Duration (in seconds)			Qualtrics generated
Finished	Finished			Qualtrics generated
RecordedDate	Recorded Date			Qualtrics generated
ResponseId	Response ID			Qualtrics generated
RecipientLastName	Recipient Last Name			Qualtrics generated
RecipientFirstName	Recipient First Name			Qualtrics generated
RecipientEmail	Recipient Email			Qualtrics generated
ExternalReference	External Data Reference			Qualtrics generated
LocationLatitude	Location Latitude			Qualtrics generated
LocationLongitude	Location Longitude			Qualtrics generated
DistributionChannel	Distribution Channel			Qualtrics generated
UserLanguage	User Language	1 2 3 4 5	English Russian Romanian French Spanish	Qualtrics generated
Collection	Collection Wave	1 2 3 4 5 6 7 8 9 10	iGLAS 1.1 iGLAS 1.2 iGLAS 1.3 iGLAS 2.1 iGLAS 2.2 iGLAS 2.3 iGLAS 2.4 iGLAS 2.5 iGLAS 2.6 iGLAS 3	This data is not collected from participants but input when responses are compiled into the master database
Sub_Collection	Sub collection	1 2 3 4 5 6 7 8 9 10 11 12	iGLAS 2.3 for G&T Prize Draw iGLAS 2.3: Group 1 (Fatos) iGLAS 2.3: Group 3 (Fatos) iGLAS 2.3: Group 4 (Fatos) iGLAS 2.3: Prize draw for Genes and Tonic event iGLAS 2.4: NIGERIAN iGLAS 2.4 VLADIVOSTOK – Social Scientists iGLAS 2.4 VLADIVOSTOK – Law (Group A) iGLAS 2.4 VLADIVOSTOK – Law (Group B) iGLAS 2.4 VLADIVOSTOK – Medical Students iGLAS 2.5 NIGERIAN iGLAS 2.6 ITALIAN	This data is not collected from participants but input when responses are compiled into the master database
iEthics01	My participation in this study is voluntary			
iEthics02	I am over 18			
iEthics03	I may withdraw			
iEthics04	I may omit			
iEthics05	Data confidentiality			
iEthics06	Code for data removal			

iDgender	Gender	**1** Male **2** Female **3** Non-binary **4** Prefer not to say		
iDyear	In what year were you born?			This score is interpreted into an age in the data set
iDint01	I've studied genetics as a part of a school curriculum			These items are all presented as responses to the question. Please select any of the below that apply to you:
iDint02	I've studied genetics as a part of my university degree			Participants are able to select multiple responses
iDint03	I have worked in the field of genetics			
iDint04	I have studied genetics myself (watched documentaries, attended short courses, read genetics books etc.)			
iDint05	I am currently studying genetics			
iDint06	I follow genetics topics on social media			
iDint07	I have never studied genetics			
iDint08	I have no interest in the topic			
iDedu_level	What is your highest level of education, either achieved or that you are working towards?	**1** Pre-GCSE **2** GCSE **3** A-level **4** Undergraduate **5** Master's **6** Doctoral **7** Post-doctoral		
iDworkOTHER_text	If you are in full or part-time employment, please chose the sector that is most applicable to your profession: - Other - Text			Free text where participants can provide more information about their employment
iDwork01	Not Applicable			
iDwork02	Charity Sector			
iDwork03	Construction and maintenance			
iDwork04	Education			
iDwork05	Engineering, Computing and ICT			
iDwork06	Farming and agricultural			
iDwork07	Finance			
iDwork08	Government employee			
iDwork09	Housing and accommodation			
iDwork10	Legal practitioner			
iDwork11	Management			
iDwork12	Medical practitioner			
iDwork13	Retired			
iDwork14	Sales and office work			
iDwork15	Science and Research			
iDwork16	Other			
iDwork17	Academic (university lecturer)			
iDwork18	University student			
iDwork19	Unemployed			
iDwork20	Service sector			
iDwork_Title	What is your specific job role (e.g. teacher)			

iDkids01	How many children do you have	**0** 0 **1** 1 **2** 2 **3** 3+	
iDkids02	Are any of your children under 16?	**1** Yes **2** No	
iDcountry01	In which country did you receive your secondary education?		Please see Appendix one for list of country codes
iDcountry02	In which country do you currently live?		Please see Appendix one for list of country codes
iDCountry03	In which city do you now live?		
iDrp01	The next few questions are about religion and politics. Are you happy to answer these questions?	**1** Yes **2** No	
iDrp02	What is your religion? - Selected Choice	**1** Agnostic **2** Atheist **3** No religion **4** Christian **5** Buddhist **6** Hindu **7** Jewish **8** Muslim **9** Sikh **10** Other	Only presented if participants respond yes (**1**) to iDrp01
iDrp02_text	Other text		Only presented if participants respond yes (**1**) to iDrp01 Free text response to religion question
iDrp03	Please rate your religiosity on a scale from 0 to 10 - Religiosity	**Likert scale 0-10**	Only presented if participants respond yes (**1**) to iDrp01 In earlier versions (1.1-1.3), this item was presented on a 100-point scale. Later versions were 0-10. To convert all onto the same scale the following formula was applied to earlier versions: (Score / 10)
iDrp04	What is your political orientation? 'Liberal' is intended to include the Left, progressives, and in some countries socialists. 'Conservative' is intended to include the Right, traditionalists etc. Please rate your political ideology on the following scale Economically	**Likert scale 1-7 (Liberal – Conservative)**	Only presented if participants respond yes (**1**) to iDrp01
iDrp05	What is your political orientation? 'Liberal' is intended to include the Left, progressives, and in some countries socialists. 'Conservative' is intended to	**Likert scale 1-7 (Liberal – Conservative)**	Only presented if participants respond yes (**1**) to iDrp01

	include the Right, traditionalists etc. Please rate your political ideology on the following scale Socially		
iDrp06	Please rate your religiosity on a scale from 0 to 100- Religiosity	**100-point scale**	
iDrp07	Please rate your spirituality - Spirituality - 100 point scale	**100-point scale**	To bring this in-line with the religiosity scale, the following formula was applied to shift from 0-100 to 0-10: (Score / 10)
iDrp08	Here is a 10-point scale on which the political views that people might hold are arranged from extremely liberal (left) to extremely conservative (right). Where would you place yourself on this scale? - Political Ideology	**10-point scale**	
iDrp08.5	On the scale below, please rate how you identify politically, from extremely liberal (left) to extremely conservative (right).	**10-point scale**	
iDsm01	On average, how many hours do you spend on social media each day (excluding for work purposes)?	**0** 0 **1** 0-1 **2** 1-2 **3** 2-3 **4** 3-4 **5** 4+	
iDsm02	I worry that information shared on social media can be misused by other people and/or the service provider?	**Likert scale 1-7** (strongly disagree to strongly agree)	
iDguidence01	How likely would you be to pursue one of the following: Counselling	**Likert scale 1-7** (very unlikely to very likely)	In earlier versions (1.1-1.3), this item was presented on a 100 point scale. Later versions were 1-7. To convert all onto the same scale the following formula was applied to earlier versions: (Score / 100)*6+1
iDguidence02	How likely would you be to pursue one of the following: The advice of a psychic	**Likert scale 1-7** (very unlikely to very likely)	
iDguidence03	How likely would you be to pursue one of the following: Seek genetic testing through a private company	**Likert scale 1-7** (very unlikely to very likely)	
iDguidence04	How likely would you be to pursue one of the following: Attend a course in mindfulness and self-awareness	**Likert scale 1-7** (very unlikely to very likely)	
iDguidence05	How likely would you be to pursue one of the following: Seek religious guidance	**Likert scale 1-7** (very unlikely to very likely)	
iDguidence06	How likely would you be to pursue one of the following: Refer to self-help literature	**Likert scale 1-7** (very unlikely to very likely)	
iDguidence07	How important is self improvement to you?	**Likert scale 1-7** (not at all to extremely important)	

iDtesting01	If there were no history of debilitating disease in your family	**Scale 1-7** (very unlikely to very likely)	In earlier versions, this item was presented on a 100 point scale. Later versions were 1-7. To convert all onto the same scale the following formula was applied to earlier versions:
iDtesting02	If there was a moderate history of debilitating disease in your family	**Scale 1-7** (very unlikely to very likely)	(Score / 100)*6+1
iDtesting03	If there was a definite and clear history of debilitating disease in your family	**Scale 1-7** (very unlikely to very likely)	
iDconcern01	I don't know who will have access to that information?		These items are presented in response to the question: In deciding whether to take a genetic test, which of the considerations below apply to you?
iDconcern02	I don't know whether the data will be stored securely?		
iDconcern03	I would rather not know of any potential debilitating diseases in my future		Participants are able to select multiple responses
iDconcern04	I'm not interested		
iDconcern05	I'm worried that I might find out something I would rather not know about myself		
iDconcern06	I would not want to be labeled as having any deficiency		
iDconcern07	I'm worried some information about my physical or mental health could be used against me (e.g. employment; legal matters; obtaining insurance)		
iDconcern09	Other		
iDconcern09_text	Other Text		Text response to the question: In deciding whether to take a genetic test, which of the considerations below apply to you?
iDgkConfidence	How confident are you in your genetic knowledge	Likert scale from 0 to 100	

Genetic Knowledge items

Variable name	Item / Question	Response / Answer	Comments	Versions									
iH2_height	Heritability of Height	0-100	Participants are asked "On a scale of 0-100 how important are genetic differences between people in explaining individual differences in the following traits"	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_weight	Heritability of Weight	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_IQ	Heritability of IQ	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_eye	Heritability of Eye colour	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_ClinDep	Heritability of Clinical depression	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_Motivation	Heritability of Motivation	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_Achievement	Heritability of School Achievement	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iH2_SexualO	Heritability of Sexual Orientation	0-100		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3

ID	Question	#	Answer	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK01	What is a genome?	1	A sex chromosome	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	The entire sequence of an individual's DNA										
		3	All the genes in DNA										
		4	Gene expression										
iGK02	Which of the following 4 letter groups represent the base units of DNA?	1	GHPO	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	HTPR										
		3	GCTA										
		4	LFWE										
iGK03.5	How many copies of each gene do we have in each cell?	1	1 copy	1.1	1.2	1.3	2.1	2.2					
		2	2 copies										
		3	23 copies										
		4	5 copies										
iGK04.5	On average, how much of the variable DNA is the same in siblings?	1	75%	1.1	1.2	1.3							
		2	50%										
		3	.01%										
		4	99.9%										
iGK05	What is the main function of all genes?	1	Storing information for protein synthesis	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	To provide energy to the cell										
		3	To clear out waste from the cell										
		4	To repair damage to a cell										
iGK06	On average, how much of their total DNA is the same in two people selected at random	1	Less 50%	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	75%										
		3	90%										
		4	More than 99%										
iGK07	Genetic contribution to the risk for developing Schizophrenia comes from:	1	One gene	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	Many genes										
iGK08	In humans, DNA is packaged into how many pairs of chromosomes?	1	23 pairs	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	48 pairs										
		3	10 pairs										
		4	27 pairs										
iGK09	An Epigenetic change is:	1	A change in gene expression	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	A change of the genetic code itself										
		3	A process by which human beings can consciously change their DNA										
		4	Gene splicing										
iGK10	Approximately how many genes does the human DNA code contain?	1	2,000	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	1 million										
		3	3 billion										
		4	20,000										
iGK11	Genetic contribution to the risk for developing Autism comes from:	1	One gene	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	Many genes										
iGK12	What are polymorphisms?	1	Building blocks of the DNA	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	Proteins found in the brain										
		3	Points of genetic variation										
		4	Deoxyribonucleic Acid										
iGK13.5	The DNA sequence in two different cells, for example a neuron and a liver cell, of one person, is:	1	Entirely different	1.1	1.2	1.3	2.1	2.2					
		2	About 50% the same										
		3	More than 90% the same										
		4	100% identical										
iGK14	Non-coding DNA describes DNA that:	1	Is removed when passed from parent to offspring	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3

ID	Question	#	Answer	Note	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	Does not lead to the production of proteins											
		3	Is non-human DNA (3)											
		4	Is not composed of nucleotides (4)											
iGK17	Can we fully predict a person's behaviour from examining their DNA sequence?	1	Yes	"fully was added during wave…"	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	No											
iGK18	At present in many countries, new born infants are tested for certain genetic traits.	1	True		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2	False											
iGK21	What is variable DNA	1	DNA that can differ amongst people		1.1	1.2	1.3							
		2	Junk DNA											
		3	DNA that can change in the course of a person's life											
		4	Gene therapy											
iGK22	Genetic Modification is:	1	Selective breeding		1.1	1.2	1.3	2.1	2.2					
		2	Genetic engineering											
		3	Both of the above											
		4	Neither of the above											

Opinion items

Variable name	Item / Question	Response / Answer	Comments	Version									
				1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOp01	I believe that my destiny is written in my genes	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOp02.5	If genetic testing allowed you to have improved treatment (for example, medication with fewer side effects) how likely would you be to take that test?	**Likert scale 1-7** (very unlikely to very likely)		1.1	1.2	1.3	2.1	2.2	2.3				
iOp03	I do not trust institutions in my country because they might misues data obtained from participants	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOp04	Consuming genetically modified (GMO) food is perfectly safe	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOp07.5	We should use genetic research to learn how best to adapt environments to people's needs, for example through individualized health advice	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3							
iOp10	I feel suspicious about genetic studies; hidden political/economic agendas may be behind them	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOp11	Scientific development is essential for improving people's lives	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iOP12.5	If genes influence our behaviour then there is no free will:	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3							
iOP13.5	How likely would you be to give a sample of your DNA for scientific research if your data are stored anonymousily?	**Likert scale 1-7** (very unlikely to very likely)		1.1	1.2	1.3	2.1	2.2					
iOp42	Understanding how certain genes influence academic achievement is important for understanding how to best tailor education to individuals.	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3				
iOp43	Understanding how certain environments influence academic achievement is important for understanding how to best tailor education to individuals	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3				
iOp44	Second language learning should be mandatory throughout compulsory education	**Likert scale 1-7** (strongly disagree to strongly agree)	This control item was included to counter Common Method Variance, but did not perform to task and so was removed	1.1	1.2	1.3							
iOp45	When you are ill, how likely are you to turn to alternative	**Likert scale 1-7** (very unlikely to very likely)		1.1	1.2	1.3	2.1	2.2					

Variable name	Item / Question	Response / Answer	Comments										
	medicine (such as homeopathy) rather than seeking treatment from conventional medicine?												
iOp46	Studies showing genetic influences on mental health problems (depression, schizophrenia, bi-polar disorder etc.) lead to increased stigma for people with those conditions:	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3	2.1	2.2	2.3				
iOp47	I believe that, if it is possible to manipulate DNA to improve health and happiness, it should done	**Likert scale 1-7** (strongly disagree to strongly agree)		1.1	1.2	1.3							

Vignettes

Variable name	Item / Question	Response / Answer	Comments	Version									
iV01	Bill was adopted at birth, both his biological parents have served jail time for violent crimes, as did his paternal grandfather. His adopted parents have no such convictions. How likely do you think it is that Bill will also have a tendency towards violence?	**Likert scale 1-7** (very unlikely to very likely)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iV02	Sarah has a particular genetic variant that has been associated with aggression. She is in court being tried for a violent crime. Should knowing about this genetic variation:	**1** Reduce her sentence		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		2 Not be taken into consideration		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		3 Increase her sentence		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
		4 Be considered to determine the type of sentence (e.g. mandatory labour, psychological therapy)						2.2	2.3	2.4	2.5	2.6	3
		5 Be considered but make no difference to her sentence		1.1	1.2	1.3	2.1	2.2					

Personality Measures

Variable name	Item / Question	Response / Answer	Comments	Versions									
i5reserved	How well do the following statements describe your personality? - I see myself as someone who is reserved	**5-point Likert Scale** (Disagree strongly – agree strongly)	Extraversion: To be reverse coded	1.1	1.2	1.3							
i5trusted	How well do the following statements describe your personality? - I see myself as someone who is generally trusted	**5-point Likert Scale** (Disagree strongly – agree strongly)	Agreeableness:	1.1	1.2	1.3							
i5lazy	How well do the following statements describe your personality? - I see myself as someone who tends to be lazy	**5-point Likert Scale** (Disagree strongly – agree strongly)	Conscientiousness: To be reverse coded	1.1	1.2	1.3							
i5stress	How well do the following statements describe your personality? - I see myself	**5-point Likert Scale** (Disagree strongly – agree strongly)	Neuroticism: To be reverse coded	1.1	1.2	1.3							

Variable name	Item / Question	Response / Answer	Comments										
	as someone who is relaxed, handles stress well												
i5artistic	How well do the following statements describe your personality? - I see myself as someone who has few artistic interests	**5-point Likert Scale** (Disagree strongly – agree strongly)	Openness: To be reverse coded	1.1	1.2	1.3							
i5outgoing	How well do the following statements describe your personality? - I see myself as someone who is outgoing, sociable	**5-point Likert Scale** (Disagree strongly – agree strongly)	Extraversion:	1.1	1.2	1.3							
i5fault	How well do the following statements describe your personality? - I see myself as someone who tends to find fault with others	**5-point Likert Scale** (Disagree strongly – agree strongly)	Agreeableness: To be reverse coded	1.1	1.2	1.3							
i5thorough	How well do the following statements describe your personality? - I see myself as someone who does a thorough job	**5-point Likert Scale** (Disagree strongly – agree strongly)	Conscientiousness:	1.1	1.2	1.3							
i5nervous	How well do the following statements describe your personality? - I see myself as someone who gets nervous easily	**5-point Likert Scale** (Disagree strongly – agree strongly)	Neuroticism:	1.1	1.2	1.3							
i5imgaination	How well do the following statements describe your personality? - I see myself as someone who has an active imagination	**5-point Likert Scale** (Disagree strongly – agree strongly)	Openness:	1.1	1.2	1.3							
i5reserved_R	Reverse coding Reserved		Generated in SPSS once master data set compiled										
i5lazy_R	Reverse coding of Lazy												
i5stress_R	Reverse coding of Stress												
i5artistic_R	Reverse coding of Artistic												
i5fault_R	Reverse coding of Fault												
i5Extraversion	Average: i5reserved_R + i5outgoing		Generated in SPSS once master data set compiled										
i5Agreeableness	Average: i5trusted + i5fault_R												
i5Conscientiousness	Average: i5lazy_R + i5thorough												
i5Neuroticism	Average: i5stress_R + i5nervous												
i5Openness	Average: i5artistic_R + i5imgaination												

Genetic scoring and free text

To generate iGKtotalAVE and iGKtotalALL, each Genetic knowledge question was scored as either correct or incorrect, with the suffix TF added to the end of the item. E.g. iGK01 becomes iGK01TF etc.

Variable name	Item / Question	Response / Answer	Comments
iFree	Please use this section if you would like to make any general comments		Participants are able to provide any additional information in this section
iGKtotalRAW	Sum of GK score		This is the total score as calculated by Qualtrics based on the score coding of the 20 True/False multiple-choice Genetic Knowledge Items
iGKtotalAVE	Average GK score = total score/number of items presented		This is the averaged GK score across different versions of iGLAS taking into account the varying number of genetic knowledge questions asked in different versions
iGKtotalALL	Sum of GK scores for only those items presented at all waves of collection		Sum of correct responses for: iGK01, iGK02, iGK05, iGK06, iGK07, iGK08, iGK09, iGK10, iGK11, iGK12, iGK14, iGK17, iGK18

iDconcernTOT	Sum of all iDconcern items, excluding iDconcern04 as this item states "not interested" and so is not a concern. The item iDconcern08 was also not included as this is the "other" item.		An additional iDConcern item was added from iGLAS 2.1 onwards. Therefore, the total for iGLAS 1.1, 1.2 and 1.3 is out of 6. All versions since iGLAS 2.1 are out of 7.
iDconcernAVE	iDconcernTOT / total number of concern items. I.e. 6 in all versions of iGLAS 1 and 7 in all versions of iGLAS 2.		

Scores generated post-collection

Variable name	Item / Question	Response / Answer		Comments	Versions									
					1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK01TF	What is a genome?	**0** **1** **0** **0**	A sex chromosome The entire sequence of an individual's DNA All the genes in DNA Gene expression		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK02TF	Which of the following 4 letter groups represent the base units of DNA?	0 **0** **1** **0**	GHPO HTPR GCTA LFWE		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK03TF	How many copies of each gene do we have in each autosome cell?	**0** **1** **0** **0**	1 copy 2 copies 23 copies 5 copies							2.3	2.4	2.5	2.6	3
iGK03.5TF	How many copies of each gene do we have in each cell?	**0** **1** **0** **0**	1 copy 2 copies 23 copies 5 copies		1.1	1.2	1.3	2.1	2.2					
iGK04TF	People differ in the amount of DNA they share. How much of this differing DNA do siblings usually share?	**0** **1** **0** **0**	75% 50% .01% 99.9%							2.3	2.4	2.5	2.6	3
iGK04.5TF	On average, how much of the variable DNA is the same in siblings?	**0** **1** **0** **0**	75% 50% .01% 99.9%		1.1	1.2	1.3							
iGK04.5.5TF	All human's differ in the amount of DNA they share. How much of this differing DNA do siblings usually share?	**0** **1** **0** **0**	75% 50% .01% 99.9%					2.1	2.2					
iGK05TF	What is the main function of all genes?	**1** **0** **0** **0**	Storing information for protein synthesis To provide energy to the cell To clear out waste from the cell To repair damage to a cell		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK06TF	On average, how much of their total DNA is the same in two people selected at random	**0** **0** **0** **1**	Less 50% 75% 90% More than 99%		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK07TF	Genetic contribution to the risk for developing Schizophrenia comes from:	**0** **1**	One gene Many genes		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK08TF	In humans, DNA is packaged into how many pairs of chromosomes?	**1** **0** **0** **0**	23 pairs 48 pairs 10 pairs 27 pairs		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK09TF	An Epigenetic change is:	**1** **0** **0** **0**	A change in gene expression A change of the genetic code itself A process by which human beings can consciously change their DNA Gene splicing		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3

ID	Question	Score	Answer	Note	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK10TF	Approximately how many genes does the human DNA code contain?	0 0 0 1	2,000 1 million 3 billion <u>20,000</u>		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK11TF	Genetic contribution to the risk for developing Autism comes from:	0 1	One gene <u>Many genes</u>		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK12TF	What are polymorphisms?	0 0 1 0	Building blocks of the DNA Proteins found in the brain <u>Points of genetic variation</u> Deoxyribonucleic Acid		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK13TF	The DNA sequence in two different cells, for example a neuron and a heart cell, of one person, is:	0 0 0 1	Entirely different About 50% the same More than 90% the same <u>100% identical</u>							2.3	2.4	2.5	2.6	3
iGK13.5TF	The DNA sequence in two different cells, for example a neuron and a liver cell, of one person, is:	0 0 0 1	Entirely different About 50% the same More than 90% the same <u>100% identical</u>		1.1	1.2	1.3	2.1	2.2					
iGK14TF	Non-coding DNA describes DNA that:	0 1 0 0	Is removed when passed from parent to offspring <u>Does not lead to the production of proteins</u> Is non-human DNA (3) Is not composed of nucleotides (4)		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK15TF	Can dog breeding be considered a form of gene engineering?	1 0	<u>Yes</u> No							2.3	2.4	2.5	2.6	3
iGK16TF	Which of the mentioned below is a method for gene editing:	0 1 0 0	ERP <u>CRISPR</u> CERN PCR							2.3	2.4	2.5	2.6	3
iGK17TF	Can we fully predict a person's behaviour from examining their DNA sequence?	0 1	Yes <u>No</u>	"fully was added during wave…"	1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK18TF	At present in many countries, new born infants are tested for certain genetic traits.	1 0	<u>True</u> False		1.1	1.2	1.3	2.1	2.2	2.3	2.4	2.5	2.6	3
iGK19TF	Some of the genes that relate to dyslexia also relate to ADHD:	1 0	<u>True</u> False								2.4	2.5	2.6	3
iGK20TF	If a report states that 'insomnia is approximately 30% heritable' what would that mean?	0 0 1 0	If someone has insomnia this is approximately 30% due to their genes Approximately 30% of people will experience insomnia at some point in their lives <u>Genetic influences account for approximately 30% of the differences between people in insomnia</u> There is an approximately 30% chance that someone will pass insomnia onto their children									2.5	2.6	3
iGK21TF	What is variable DNA	1 0 0	<u>DNA that can differ amongst people</u> Junk DNA DNA that can change in the course of a person's life		1.1	1.2	1.3							

						1.1	1.2	1.3	2.1	2.2					
		0	Gene therapy												
iGK22TF	Genetic Modification is:	**0** **0** **1** **0**	Selective breeding Genetic engineering Both of the above Neither of the above			1.1	1.2	1.3	2.1	2.2					
i5reserved_R	REVERSED personality item - reserved	**5-point Likert Scale** (Disagree strongly – agree strongly)				1.1	1.2	1.3							
i5fault_R	REVERSED personality item - fault	**5-point Likert Scale** (Disagree strongly – agree strongly)				1.1	1.2	1.3							
i5lazy_R	REVERSED personality item - lazy	**5-point Likert Scale** (Disagree strongly – agree strongly)				1.1	1.2	1.3							
i5stress_R	REVERSED personality item - stress	**5-point Likert Scale** (Disagree strongly – agree strongly)				1.1	1.2	1.3							
i5artistic_R	REVERSED personality item - artistic	**5-point Likert Scale** (Disagree strongly – agree strongly)				1.1	1.2	1.3							

Appendix 1: Country Codes

	Country List								
Code	Country	Code	Country	Code	Country	Code	Country	Code	Country
1	Afghanistan	40	Costa Rica	79	Indonesia	118	Myanmar	157	Slovenia
2	Albania	41	Côte d'Ivoire	80	Iran, Islamic Republic of...	119	Namibia	158	Solomon Islands
3	Algeria	42	Croatia	81	Iraq	120	Nauru	159	Somalia
4	Andorra	43	Cuba	82	Ireland	121	Nepal	160	South Africa
5	Angola	44	Cyprus	83	Israel	122	Netherlands	161	Spain
6	Antigua and Barbuda	45	Czech Republic	84	Italy	123	New Zealand	162	Sri Lanka
7	Argentina	46	Democratic People's Republic of Korea	85	Jamaica	124	Nicaragua	163	Sudan
8	Armenia	47	Democratic Republic of the Congo	86	Japan	125	Niger	164	Suriname
9	Australia	48	Denmark	87	Jordan	126	Nigeria	165	Swaziland
10	Austria	49	Djibouti	88	Kazakhstan	127	Norway	166	Sweden
11	Azerbaijan	50	Dominica	89	Kenya	128	Oman	167	Switzerland
12	Bahamas	51	Dominican Republic	90	Kiribati	129	Pakistan	168	Syrian Arab Republic
13	Bahrain	52	Ecuador	91	Kuwait	130	Palau	169	Tajikistan
14	Bangladesh	53	Egypt	92	Kyrgyzstan	131	Panama	170	Thailand
15	Barbados	54	El Salvador	93	Lao People's Democratic Republic	132	Papua New Guinea	171	The former Yugoslav Republic of Macedonia
16	Belarus	55	Equatorial Guinea	94	Latvia	133	Paraguay	172	Timor-Leste
17	Belgium	56	Eritrea	95	Lebanon	134	Peru	173	Togo
18	Belize	57	Estonia	96	Lesotho	135	Philippines	174	Tonga
19	Benin	58	Ethiopia	97	Liberia	136	Poland	175	Trinidad and Tobago
20	Bhutan	59	Fiji	98	Libyan Arab Jamahiriya	137	Portugal	176	Tunisia
21	Bolivia	60	Finland	99	Liechtenstein	138	Qatar	177	Turkey
22	Bosnia and Herzegovina	61	France	100	Lithuania	139	Republic of Korea	178	Turkmenistan
23	Botswana	62	Gabon	101	Luxembourg	140	Republic of Moldova	179	Tuvalu
24	Brazil	63	Gambia	102	Madagascar	141	Romania	180	Uganda
25	Brunei Darussalam	64	Georgia	103	Malawi	142	Russian Federation	181	Ukraine
26	Bulgaria	65	Germany	104	Malaysia	143	Rwanda	182	United Arab Emirates
27	Burkina Faso	66	Ghana	105	Maldives	144	Saint Kitts and Nevis	183	United Kingdom of Great Britain and Northern Ireland
28	Burundi	67	Greece	106	Mali	145	Saint Lucia	184	United Republic of Tanzania
29	Cambodia	68	Grenada	107	Malta	146	Saint Vincent and the Grenadines	185	United States of America
30	Cameroon	69	Guatemala	108	Marshall Islands	147	Samoa	186	Uruguay
31	Canada	70	Guinea	109	Mauritania	148	San Marino	187	Uzbekistan
32	Cape Verde	71	Guinea-Bissau	110	Mauritius	149	Sao Tome and Principe	188	Vanuatu
33	Central African Republic	72	Guyana	111	Mexico	150	Saudi Arabia	189	Venezuela, Bolivarian Republic of...
34	Chad	73	Haiti	112	Micronesia, Federated States of...	151	Senegal	190	Viet Nam
35	Chile	74	Honduras	113	Monaco	152	Serbia	191	Yemen
36	China	75	Hong Kong (S.A.R.)	114	Mongolia	153	Seychelles	192	Zambia
37	Colombia	76	Hungary	115	Montenegro	154	Sierra Leone	193	Zimbabwe
38	Comoros	77	Iceland	116	Morocco	155	Singapore		
39	Congo, Republic of the...	78	India	117	Mozambique	156	Slovakia		

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