A Survey of the Public Cognition and the Acceptance of the Gene-editing Technology

Dear interviewees,

The survey is conducted to understand the public attitude towards gene editing and other
technical means. This is an anonymous investigation and the content is only used for scientific
research. It is absolutely confidential. Please select the appropriate option according to your realities
and views. This filling will take you about 5 minutes. Thanks for your support and cooperation.

SJTU-BioX-Shanghai Shanghai Jiao Tong University

1 Basic Cognitive Concept

This module aims to understand your authentic views. Please fill in according to your own first reaction. Please do not refer to other people's opinions in the filling process. Thank you!

1.1 Self-evaluation of the cognition of related technologies :

Understand - deeply understand the principle or the progress of specific cases General - have heard of relevant nouns or technologies and can give relevant examples; Incomprehension - do not understand.

	understand	general	incomprehension
Transgenosis			
Gene editing			
Gene target therapy			
DNA recombination			
CRISPR system			

1.2 The following events you have some knowledge of are: (Multiple choice. Select at least one item.)

Please select all the events you know; if you have no knowledge of the event, please select "None".

\square He Jiankui's "gene-editing baby" in 2018
\square Gene-editing "modified pig" as donor for organ transplantation experiment
\square Improvement of yield of soybean by using CRISPR
□ Human genome project
□ None

1.3 How do you get information about gene editing techniques: (Multiple choice. Select at least

one item.)
Please try to choose as comprehensive as possible!
 □ Paper resources(such as books, newspapers and periodicals) □ TV, radio □ Class learning □ Internet □ Common discourse □ No relevant information has been obtained □ Others
1.4 The genetic material of the organism is: (single choice)
Used only to understand the true cognition of the relevant areas, please do not search the Internet. Gene Protein Sugar Not known
1.5 Can the double-fold eyelids obtained by plastic surgery be passed on to the offspring? (single choice)
Used only to understand the true cognition of the relevant areas, please do not search the Internet. \Box Yes \Box No \Box Not known
1.6 If a new gene is successfully transferred into the liver cell of the mouse, is the gene present in its progeny? (single choice)
Used only to understand the true cognition of the relevant areas, please do not search the Internet. \Box Yes \Box No \Box Not known

2 Personal Attitude

This module is mainly aimed at personal views on gene editing technology, please fill in after thinking!

2.1 The degree of your acceptance of gene editing technology is:

Gene editing technology - A technique capable of allowing the human to "edit" the target gene, and realizing the knock-out and addition of a specific DNA fragment. In short, by means of the use of biological means, the man-made modification gene helps human to achieve a certain purpose, and such a modification has a genetic effect in some cases.

Mainly approve - understand and **will not object to other people's exposure** to gene editing products or the use of gene therapy.

Completely accept - understand and **will not object to your and other people's exposure** to gene editing products or the use of gene therapy.

	Resis	ST	Mainly Completely approve accept			Neutral./It doesn't matter.	
Used in microbes							
Used in non-edible plants							
Used in non-edible animals							
Used in food							
Applied to human medical treatment							
Applied to human embryo transformation							
2.2 The degree of your acceptance of the following statements is: Totally agree Agree Neutral Disagree Totally disagree							
Gene editing technology is the gospel of society.							
The biggest problem of gene therapy at this stage is safety.							
Even if parents think the modification is good for their children, parents can't choose to modify their child's genes.							
The development of medical treatment in modern society can not be separated from gene editing technology.							
Gene editing technology will further expand the class gap in society.							
The modification of genes is contrary to the laws of nature, and there must be no good results in the end.							
I can accept gene editing tech that work on non-human bodies							
If the gene therapy is mature an I'm in favor of its application	d safe,						
If a child has a birth defect, he she can accept genetic editing v the consent of his or her parent	vith						
Gene editors will create monsters and							

should be banned.

2.3 In your opinion, in what order the following aspects should be considered in the process of gene editing and application promotion?						
Please click on the options in order of priority to sort them with 1, 2, 3. NOTechnical safety NOEconomic cost NOEthic						
3 Basic Information This part of information will be used to confirm the classification criteria.						
3.1 Your gender is: (single choice)						
 □ male □ female □ Inconvenient to disclose 						
3.2 Your age is: (single choice)						
<pre> < 18 □ 18~25 □ 26~40 □ 41~50 □ 51~60 □ > 60 </pre>						
3.3 The area where you live for a long time at this stage is: (single choice) In this question, "big city" means: the provincial capital, the municipality, the Special Administrative Region and the planned cities (including Dalian, Qingdao, Ningbo, Shenzhen, Xiamen, etc.) rural area small-medium city big city						
3.4 Your religious beliefs is: (single choice) □ None □ Buddhism □ Christianity □ Islam □ Taoism □ others						

3.5 Your level of education is: (single choice)

A Survey of the Public Cognition and the Acceptance of the Gene-editing Technology

	Has your ice)	family / fr	iend suffered from a "major disease"	once or now?	(single
"ma	ijor disease'	" refers to th	e items in the national major disease insu	rance.	
	Yes	□ No	□ Not known		
4 Su	pplementa	ary and Ex	tended Information (optional)		
The fo	ollowing section	ons are option	al.		
Thank	you for your	support and u	nderstanding of the questionnaire. We will try ou	ir best to promote the	e positive
use of	synthetic bio	logy , using ou	ir learning and collected data to serve the public!		
4.1	(optional) Y	our suppler	nentary views or suggestions on this ques	tionnaire:	
Thank	you for your	support! This	part of the questionnaire is optional. We look for	ward to receiving you	r valuable
feedb	ack! Good luc	:k!			
	(optional)	If you are	willing to have an in-depth interview, p	olease leave your	contact
It is r	ecommended	that you fill i	n your mobile phone number. We will not use y	your information for	any other
purpo	se! Thank you	u!			