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# Biotechnology Research Viewed With Caution Globally, but Most Support Gene Editing for Babies To Treat Disease

*Majorities across global publics accept evolution; religion factors prominently in beliefs*

**BY** Cary Funk, Alec Tyson, Brian Kennedy and Courtney Johnson

**FOR MEDIA OR OTHER INQUIRIES:**

Cary Funk, Director, Science and Society Research

Alec Tyson, Associate Director

Haley Nolan, Communications Associate

202.419.4372

[www.pewresearch.org](http://www.pewresearch.org)

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## How we did this

This report examines public perceptions of biotechnology, evolution and the relationship between science and religion. Data in this report come from a survey conducted in 20 publics from October 2019 to March 2020 across Europe, Russia, the Americas and the Asia-Pacific region. Surveys were conducted by face-to-face interview in Russia, Poland, the Czech Republic, India and Brazil. In all other places, the surveys were conducted by telephone. All surveys were conducted with representative samples of adults ages 18 and older in each survey public.

Here are the [questions](#) used for the report, along with responses, and the [survey methodology](#).

# Biotechnology Research Viewed With Caution Globally, but Most Support Gene Editing for Babies To Treat Disease

*Majorities across global publics accept evolution; religion factors prominently in beliefs*

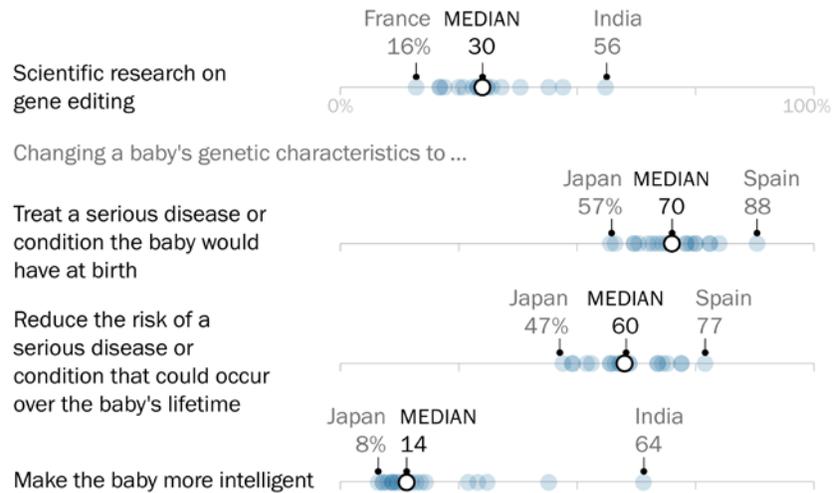
Global publics take a cautious stance toward scientific research on gene editing, according to an international survey from Pew Research Center. Yet most adult publics (people ages 18 and older) draw distinctions when it comes to specific applications of human gene editing, including showing wide support for therapeutic uses.

The findings come amid a period of rapid development in biotechnology in which new tools, such as CRISPR gene-editing technology, have extended the possibilities of science, raising the need for scientists, governments and people around the world to grapple with the accompanying social, ethical and legal considerations.

A 20-public median of 63% say scientific research on gene editing is a misuse – rather than an appropriate use – of technology, according to the

## Wide concern about research on gene editing, but most support its use for babies to treat disease

*% who say each is appropriate*



EACH BLUE DOT REPRESENTS ONE OF THE 20 PUBLICS



Note: Respondents who gave other responses or did not give an answer are not shown.  
Source: International Science Survey 2019-2020. Q12a, Q23a-c  
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survey fielded in publics across Europe, the Asia-Pacific region, the United States, Canada, Brazil and Russia.

However, views on specific instances where gene editing might be used highlight the complex and contextual nature of public attitudes. Majorities say it would be appropriate to change a baby's genetic characteristics to treat a serious disease the baby would have at birth (median of 70%), and somewhat smaller shares, though still about half or more, say using these techniques to reduce the risk of a serious disease that could occur over the course of the baby's lifetime would be appropriate (60%). But a median of just 14% say it would be appropriate to change a baby's genetic characteristics to make the baby more intelligent. A far larger share (median of 82%) would consider this to be a misuse of technology.

Global publics also draw distinctions between the areas of scientific research they view as appropriate and inappropriate. There is broad support across most places surveyed for scientific research on new technologies to help women get pregnant (a median of 73% view this as appropriate). But research on animal cloning is largely met with opposition, with a median of two-thirds (66%) considering scientific research on animal cloning to be a misuse of technology.

Religious beliefs tie with attitudes on many aspects of biotechnology across global publics but the impact of religion is far from uniform. For instance, Christians are often more wary than those who are religiously unaffiliated, especially in the West. In the U.S., about half as many Christians as religiously unaffiliated adults consider scientific research on gene editing to be an appropriate use of technology (21% vs. 47%). Similar gaps are seen in the Netherlands, the UK, Sweden and other publics across Western Europe.

But in India, a majority of adults (56%) view research on gene editing as appropriate – the highest level measured across places surveyed – and Hindus and Muslims there are equally likely to express this view. In Singapore – a country with a religiously diverse population – about half or more Christians, Hindus and Muslims see research on gene editing as a misuse of scientific technology. Buddhists and the religiously unaffiliated in Singapore are closely divided on this issue.

Age – rather than religion – has a more uniform relationship with views of biotechnology research and its applications across the 20 publics surveyed. In nearly all places surveyed, younger adults (those at or below the median age) are more likely than older adults to say that scientific research on gene editing is appropriate, though both groups often express general wariness. In Sweden, for instance, 38% of younger Swedes and half as many older Swedes (19%) view gene-editing research as an appropriate use of technology.

Younger adults are also more accepting than older adults of research on animal cloning and pregnancy technology across most places surveyed. There are similar age differences in views about potential uses of human gene-editing technologies.

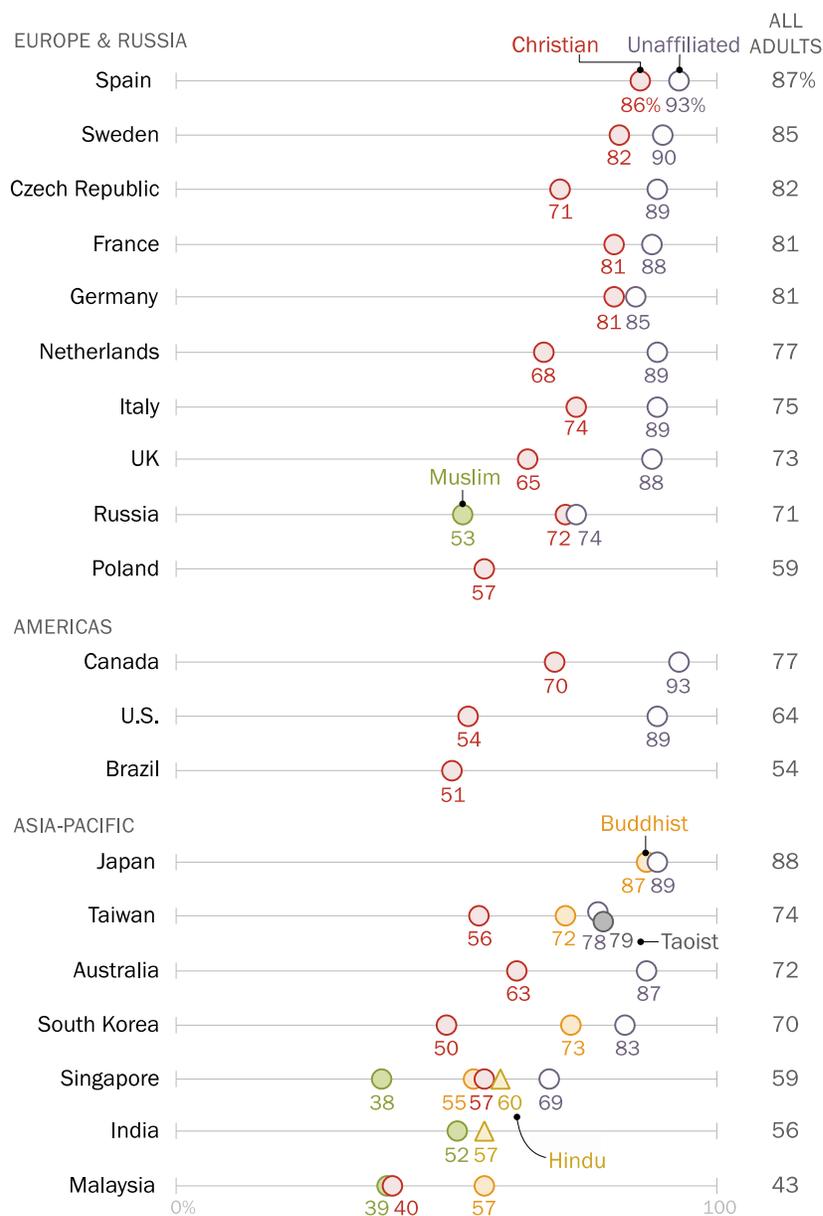
The survey also looks at public beliefs about evolution, an area often seen as a point of friction between science and religion, particularly for followers of Abrahamic faiths such as Christianity or Islam.

The survey finds broad acceptance of evolution across these publics. A median of 74% say humans and other living things have evolved, while a median of just 21% think humans and other living things have existed in their present form since the beginning of time.

Beliefs about evolution are strongly linked with religious affiliation. Christians – especially those for whom religion is highly salient – are less accepting of the idea that humans and other living things have evolved over time. In Canada, for instance, 93% of

## Majorities say humans have evolved over time; Christians often less likely to express this view

% who say humans and other living things have evolved over time



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020, Q36.

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religiously unaffiliated adults say humans and other living things have evolved over time compared with a smaller majority of all Christians (70%) and 49% of Christians who say religion is very important to them. In South Korea, half of Christians say that humans and other living things have evolved, compared with 73% of Buddhists and 83% of the religiously unaffiliated.

Muslims are also less accepting of evolution across the publics surveyed. About four-in-ten Muslims in Malaysia and Singapore say that humans and other living things have evolved. In India and Russia, it is roughly half.

Those who believe that humans and other living things have existed in their present form since the beginning of time are generally of two minds about the potential for scientific and religious explanations to align. Among those who reject evolution, nearly equal shares across these publics say that scientific and religious explanations for the origins of life can be compatible as say they cannot. (Median of 48% to 45% across the 17 publics with a large enough sample for analysis.)

Despite such differences by religion, when people assess how often their own religious beliefs are at odds with science, majorities say that conflict rarely or never occurs (20-public median of 62%). A median of just 11% say their religious beliefs often conflict with science. Another 21% say this sometimes happens.

These are among the chief findings from the survey conducted among 20 publics with sizable or growing investments in scientific and technological development from across Europe (the Czech Republic, France, Germany, Italy, the Netherlands, Poland, Spain, Sweden and the UK), the Asia-Pacific region (Australia, India, Japan, Malaysia, Singapore, South Korea and Taiwan) as well as Russia, the U.S., Canada and Brazil.

***See “[Science and Scientists Held in High Esteem Across Global Publics](#)” for more findings from this survey***

## **Majorities across most of these publics are wary of gene-editing and animal cloning research; younger adults tend to be more receptive**

The past quarter century has seen rapid developments in modern biotechnology, particularly from the discovery of more precise techniques for genome editing. Earlier this year, the [Nobel Prize in Chemistry](#), awarded to Jennifer Doudna and Emmanuelle Charpentier, called attention to the importance of advances in the field stemming from CRISPR gene-editing technology.

Public opinions about emerging developments in biotechnology are mixed, with majorities across most places surveyed expressing caution about doing scientific research on gene editing and animal cloning. But public reaction to using gene-editing techniques for babies is widely positive if the goal is aimed at the treatment of disease. And scientific research into pregnancy technologies is generally seen in an approving light.

Younger adults are generally more supportive than older adults of research in these areas of biotechnology. And religion is often connected with views about these topics, with Christians typically more wary than those who are religiously unaffiliated, particularly in the West.

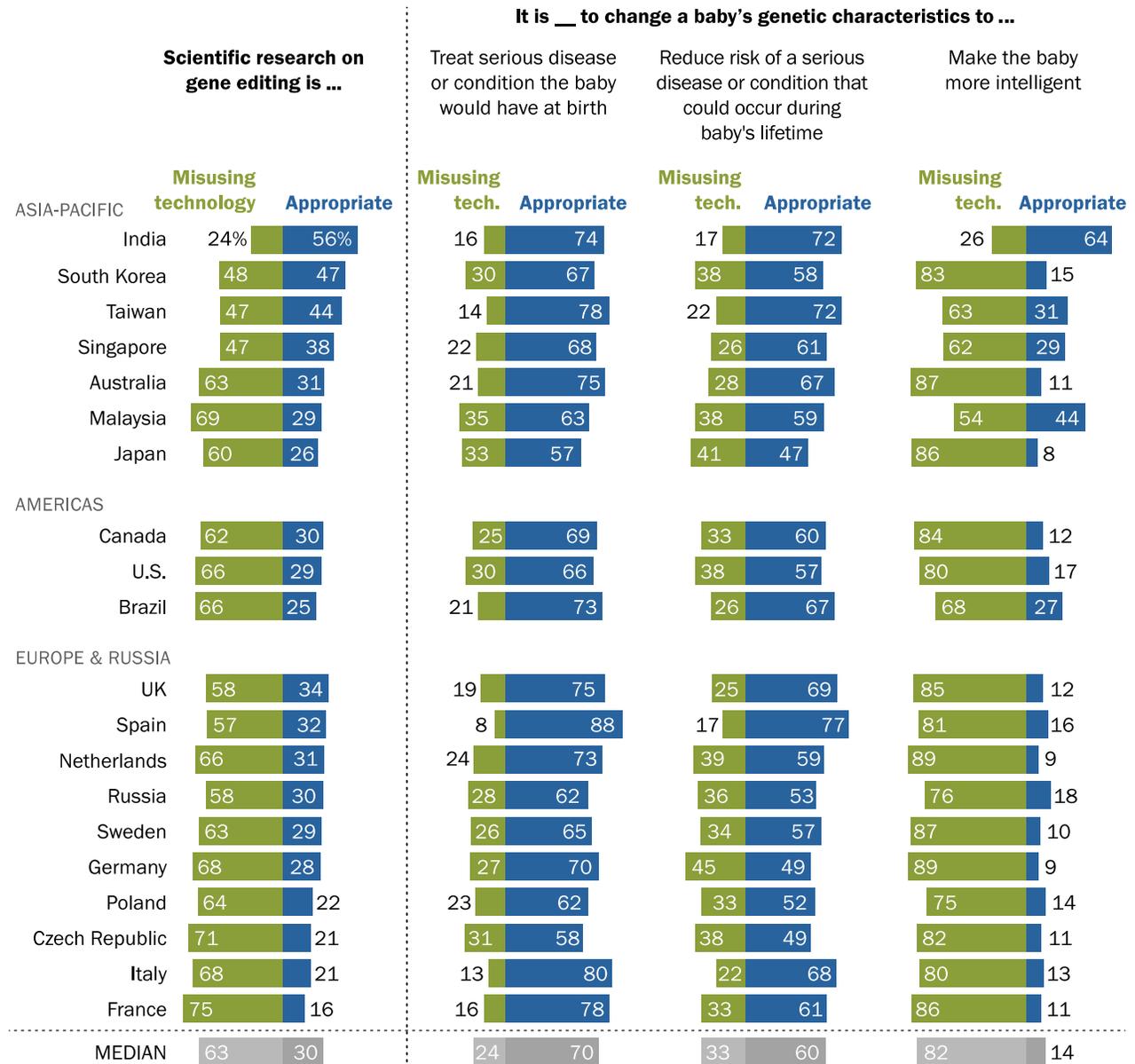
## **Publics are generally cautious about research on gene editing, but are much more accepting if gene editing will be used for therapeutic purposes**

Public views about scientific research on gene editing are more negative than positive. But the balance of opinion about using gene editing to change a baby's genetic characteristics depends on how it will be used.

A median of 30% across the 20 publics say scientific research on gene editing to change people's genetic characteristics is appropriate. Nearly two-thirds (median of 63%) – including majorities in all but a handful of publics surveyed – say such research is a misuse of technology. French adults are the most disapproving of research into gene editing. Just 16% in France say it is appropriate, while three-quarters say it's a misuse of scientific technology. India stands out as the only place where a majority of adults (56%) consider gene-editing research to be appropriate.

# Many across global publics are wary of gene-editing research, but majorities have a favorable view if gene editing for babies is used to treat serious disease

% who say each of the following



Note: Respondents who did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q12a, Q23a-c.

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People are more positive about gene-editing technologies if they'll be used to treat illnesses a baby would have at birth. Majorities in all places surveyed (20-public median of 70%) describe using gene editing to treat a serious disease or condition a baby would have at birth as appropriate, while about one-quarter (median of 24%) say this would be a misuse of technology. Support for using gene editing for babies to treat disease is particularly strong in Spain, where 88% describe it as appropriate and just 8% say it is a misuse of technology.

People are also generally in favor of using human gene editing to reduce the risk of future health problems from occurring. A median of 60% say it is appropriate to use gene editing to reduce the risk of a serious disease a baby could develop over their lifetime, while 33% see this as a misuse of technology. About three-quarters of adults are positive about this application in Spain (77%), as are roughly seven-in-ten in India and Taiwan. Opinion is more narrowly divided in Germany, where 49% say this is appropriate while 45% say it is misusing technology. And in Japan, opinion divides 47% appropriate to 41% misusing technology.

In 2018, the use of CRISPR technology [by Chinese scientists](#) aimed at making babies genetically resistant to HIV led to widespread condemnation and concern in the international scientific community. Ethical concerns were driven in part by the unknown health implications from this type of [human germline genome editing](#) over time.

When survey respondents consider the possibility of using human gene editing to make a baby more intelligent, the answer from the general public is clear. A median of just 14% across the 20 publics say this would be acceptable; 82% say it would be misusing technology.

Similarly, [in-depth interviews](#) in Malaysia and Singapore found that when those interviewed – whether Muslim, Hindu or Buddhist – talked about their views of research on gene editing, many were positively disposed to the idea of using such techniques to treat serious disease. However, some interviewees raised concerns about other possible uses of gene editing, including a fear that people might try to westernize their children by creating babies with blond hair and blue eyes.

**Younger adults tend to be more accepting of gene-editing research and its applications for babies than their elders**

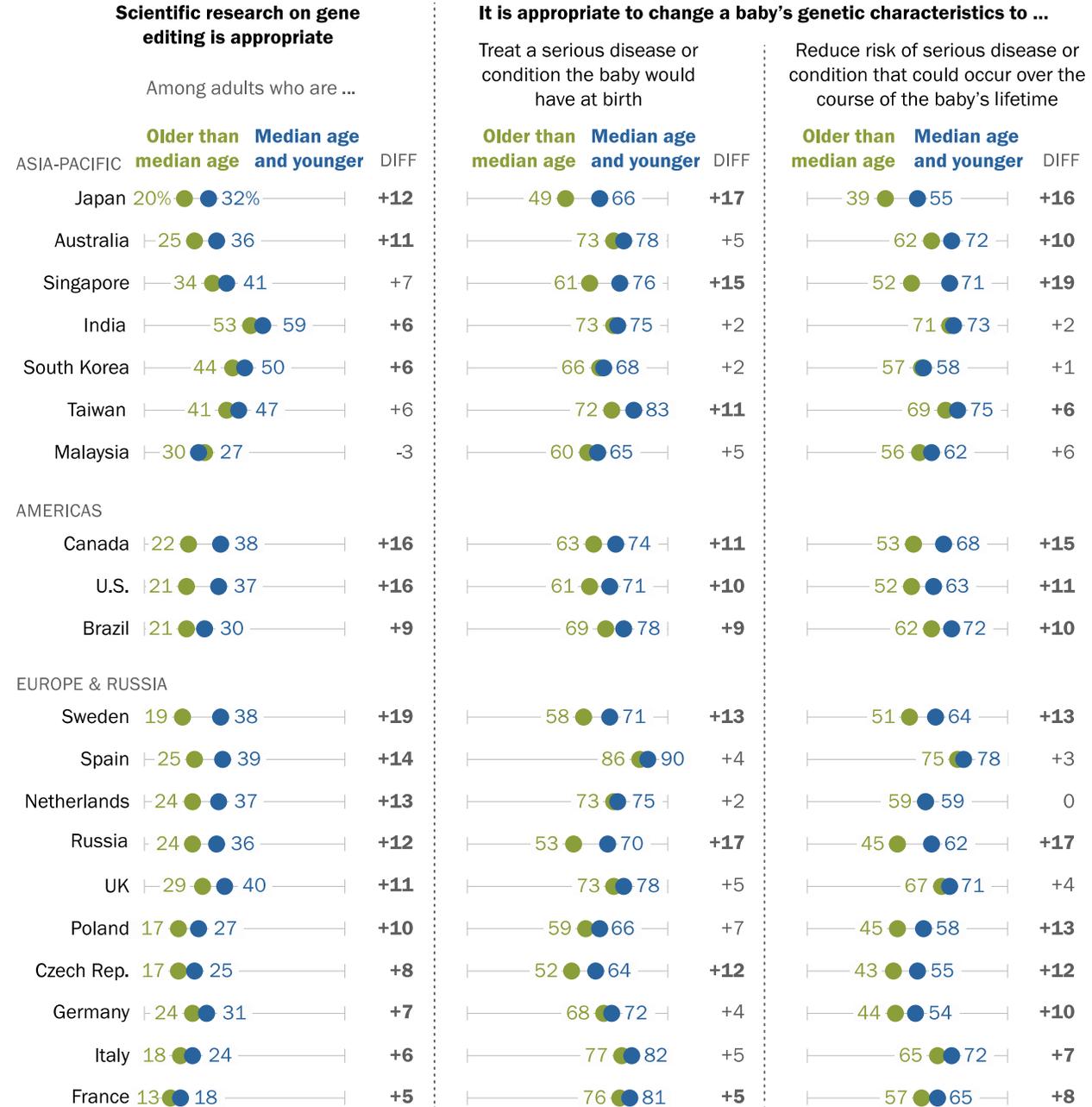
Across nearly all of the 20 publics surveyed, younger adults are more likely than older ones to say that scientific research on gene editing is appropriate. This age gap is largest in Sweden, where 38% of younger adults (those at the median age or younger), say this research is acceptable, compared to just 19% of older Swedes, a gap of 19 percentage points.

Younger adults also tend to be more accepting of using gene editing on babies to treat disease at birth and to reduce the risk of serious disease over a baby's lifetime. Statistically significant differences by age occur in half or more of the publics surveyed. In Japan, for instance, a majority of younger adults say it's acceptable to use gene editing to treat disease (66%), compared with about half (49%) of older adults.

Opinion about using gene editing to change a baby's intelligence is generally negative across age groups, and there are few sizable differences between older and younger adults about this application of gene editing.

## Younger adults are often more supportive of gene-editing research and applications

% who say each of the following



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q12a, Q23b, c.

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## Religious differences sometimes play a sizeable role in opinion about gene editing

Adults who have no religious affiliation are often more supportive of gene-editing research than those who are religiously affiliated, particularly in Western countries with larger shares of Christians.

In 10 of the publics surveyed, unaffiliated people (including atheists, agnostics and people who say they are “nothing in particular”) are more likely than Christians to describe gene-editing research as an appropriate use of scientific technology. However, even among the unaffiliated, no more than about half see such research as appropriate.

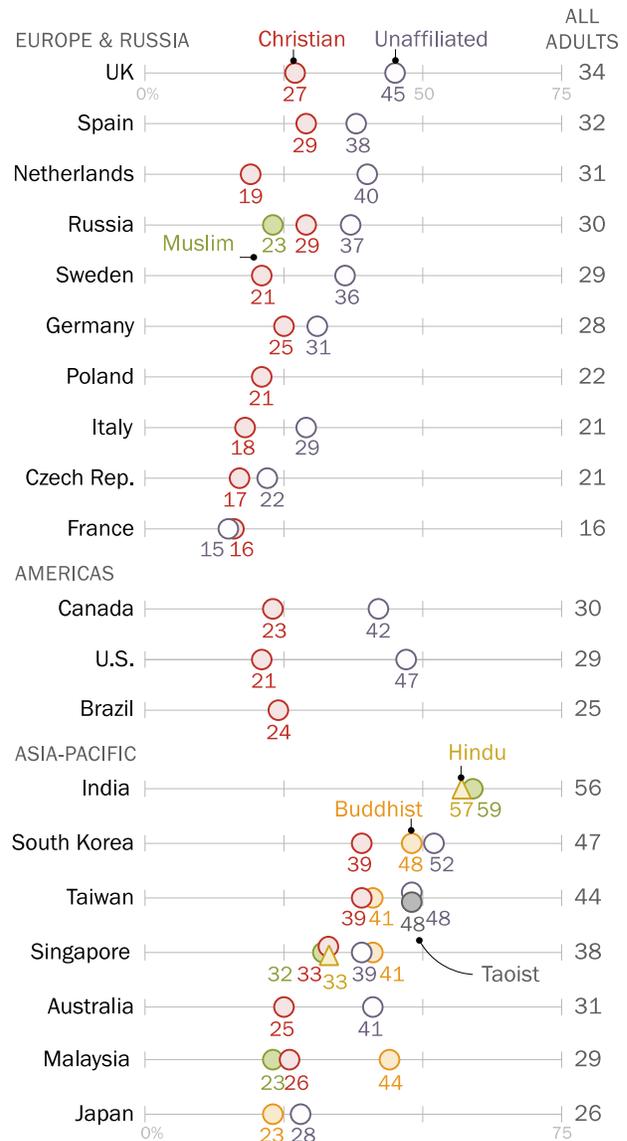
In the U.S., for instance, nearly half of unaffiliated Americans (47%) say gene-editing research is acceptable, compared with 21% of Christians. Similarly, Christians are more disapproving of gene-editing research than the unaffiliated in the Netherlands, Canada, the UK, Australia, Sweden, Italy, Spain and Germany.

In the Czech Republic, Christians and religiously unaffiliated adults are more disapproving than approving of gene-editing research. In Russia, about half or more of the unaffiliated, Christians and Muslims say such research is misusing technology. (There are not enough unaffiliated respondents in Poland for separate analysis.)

India stands out as more positive about gene-editing research. Just over half of Hindus (57%) and Muslims (59%) see such research as

## Religiously unaffiliated adults are often positive about gene-editing research

*% who say scientific research on gene editing to change people’s genetic characteristics is appropriate*



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q12a. “Biotechnology Research Viewed With Caution Globally, but Most Support Gene Editing for Babies To Treat Disease”

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appropriate. By contrast, both Muslims and Christians in Malaysia tend to be disapproving of such research.

Buddhists in Malaysia are more divided over the appropriateness of research on gene editing (44% to 47%), as are Buddhists in Singapore, South Korea and Taiwan. In Taiwan, Taoists are also closely divided, with 48% saying gene-editing research is appropriate and 45% saying this is misusing technology.

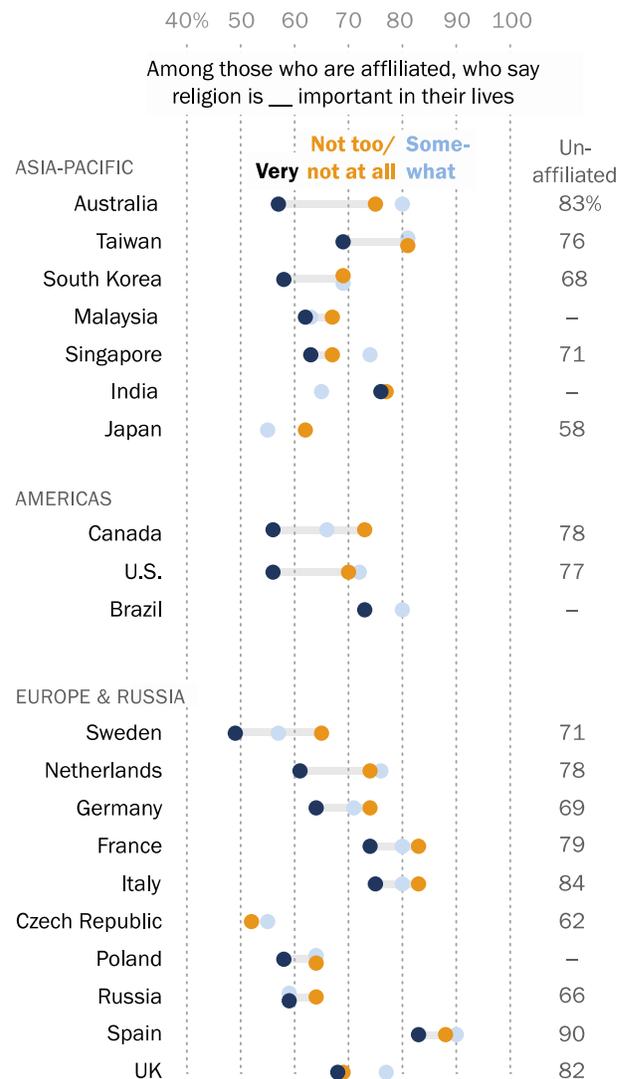
Religious groups are generally more accepting of changing a baby's genetic characteristics in order to treat serious disease or to reduce the risk of serious disease over their lifetime. (See [Appendix](#).) Most people, regardless of religious affiliation, think it would be a misuse of technology to use gene editing to increase a baby's intelligence.

Religious salience also factors into people's views on these issues. Those who are more religious, saying religion is very important in their lives, tend to be more disapproving of scientific research on gene editing. This pattern is seen in a number of countries with larger Christian populations, including the U.S., the UK, Canada, Australia, the Netherlands and Italy.

There are similar differences by religious salience in views about using gene editing for babies. For example, religiously affiliated adults in Australia who consider religion very important in their lives are less supportive of using gene editing to treat disease a baby would

## More religious adults less approving of gene editing to treat disease in babies

*% who say changing a baby's genetic characteristics to treat a serious disease or condition the baby would have at birth is appropriate*



Note: Dash indicates not enough respondents in that group to analyze. Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q23c.

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have at birth than those for whom religion is not too or not at all important (57% vs. 75%, respectively).

Men are more approving than women of gene-editing research in 12 of the 20 publics surveyed. However, gender differences fade when it comes to views about using gene editing for babies to treat disease at birth or reduce the risk of serious disease over their lifetime.

## Public views about research on animal cloning are mostly negative

The balance of opinion about scientific research on [animal cloning](#) is much more negative than positive in most places surveyed.

In the nearly 25 years since cloning [Dolly the sheep](#), cloning techniques have been used to create an exact genetic copy of an existing animal across more than 20 species, including livestock, dogs and [primates](#).

Advocates see a number of benefits from animal cloning for biomedical research and agriculture. Others raise concerns about animal welfare and see drawbacks from animal cloning such as reducing the genetic diversity of the species.

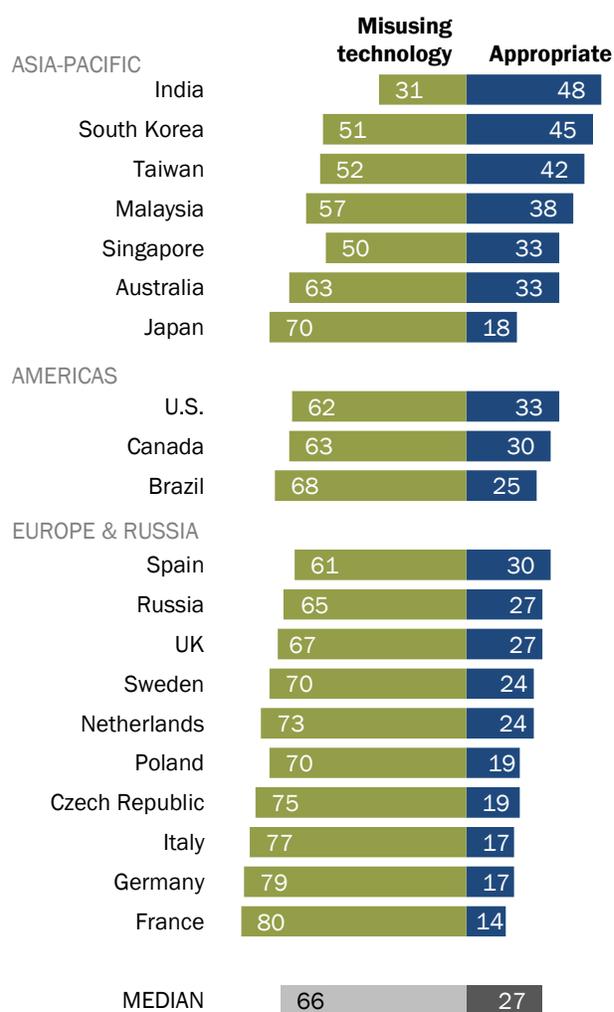
Across the 20 publics, a median of 27% say animal cloning research is an appropriate use of technology, while more than double that figure (median of 66%) say such research is a misuse of scientific technology.

Disapproval of animal cloning research is particularly common in France (80%), Germany (79%), Italy (77%), the Czech Republic (75%) and the Netherlands (73%).

Men are more supportive than women of animal cloning research, although no more than about half of men across these publics say that animal cloning research is appropriate. Younger adults are more supportive of animal cloning research in all but three places surveyed, and those with higher levels of education are generally more supportive of such research.

## Concerns about animal cloning research are widespread

*% who say scientific research on animal cloning is ...*

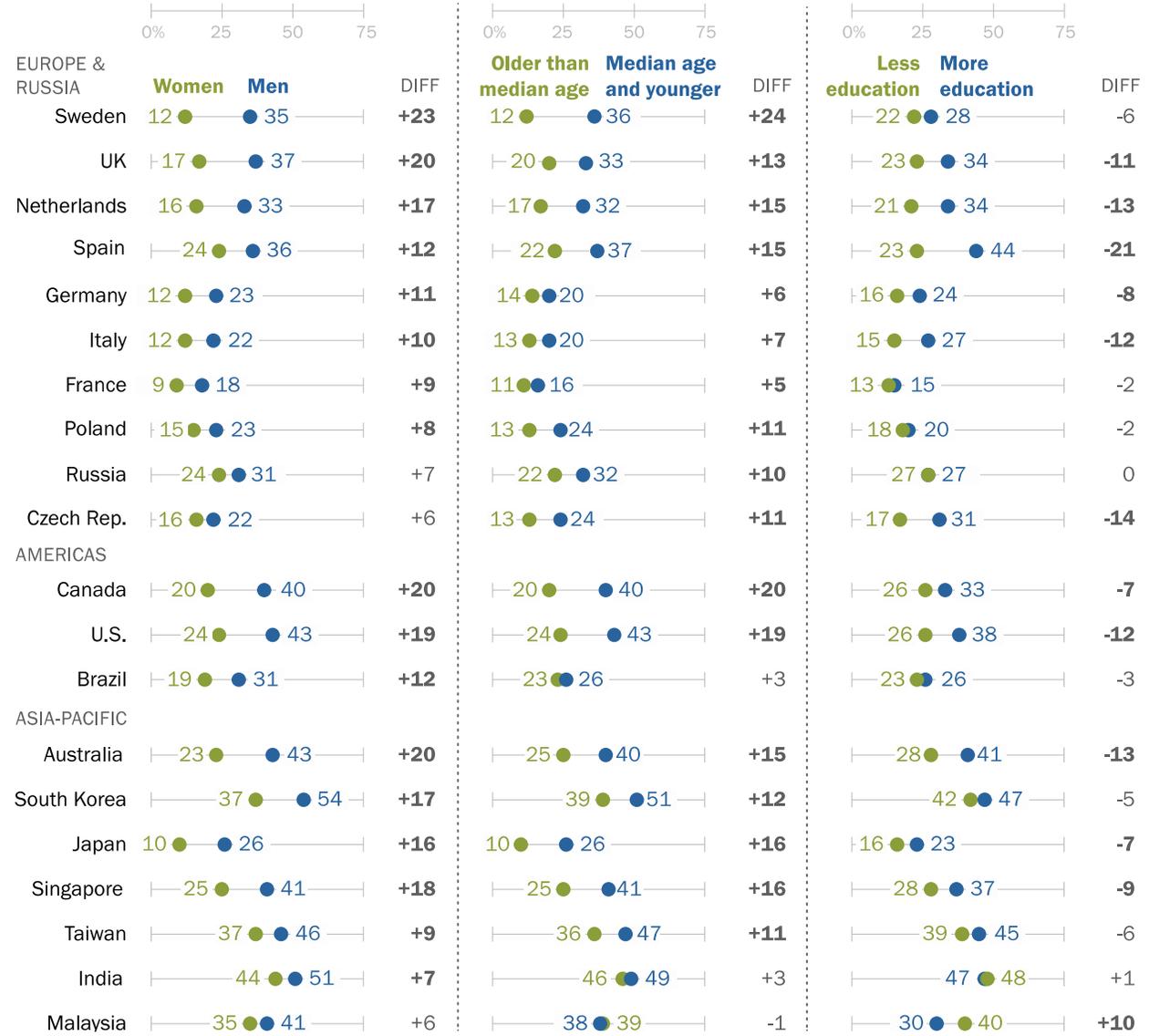


Note: Respondents who did not give an answer are not shown.  
Source: International Science Survey 2019-2020. Q12b.  
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## Men, younger people and those with more education often more supportive of animal cloning

% who say scientific research on animal cloning is appropriate



Note: Statistically significant differences shown in **bold**. Respondents who gave other responses or did not give an answer are not shown. In India and Brazil, “more education” includes people who completed secondary or above. In all other survey publics, “more education” includes those who completed postsecondary or above.

Source: International Science Survey 2019-2020. Q12b.

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Christians are often more disapproving than religiously unaffiliated adults of animal cloning research, although about half or more of both groups say this research is misusing technology across the 20 publics.

In the U.S., for example, about half of unaffiliated Americans (49%) say animal cloning research is appropriate, compared with about a quarter of Christians (27%). There are similar differences in Canada, the UK, Sweden, Australia, the Netherlands, Italy and Spain.

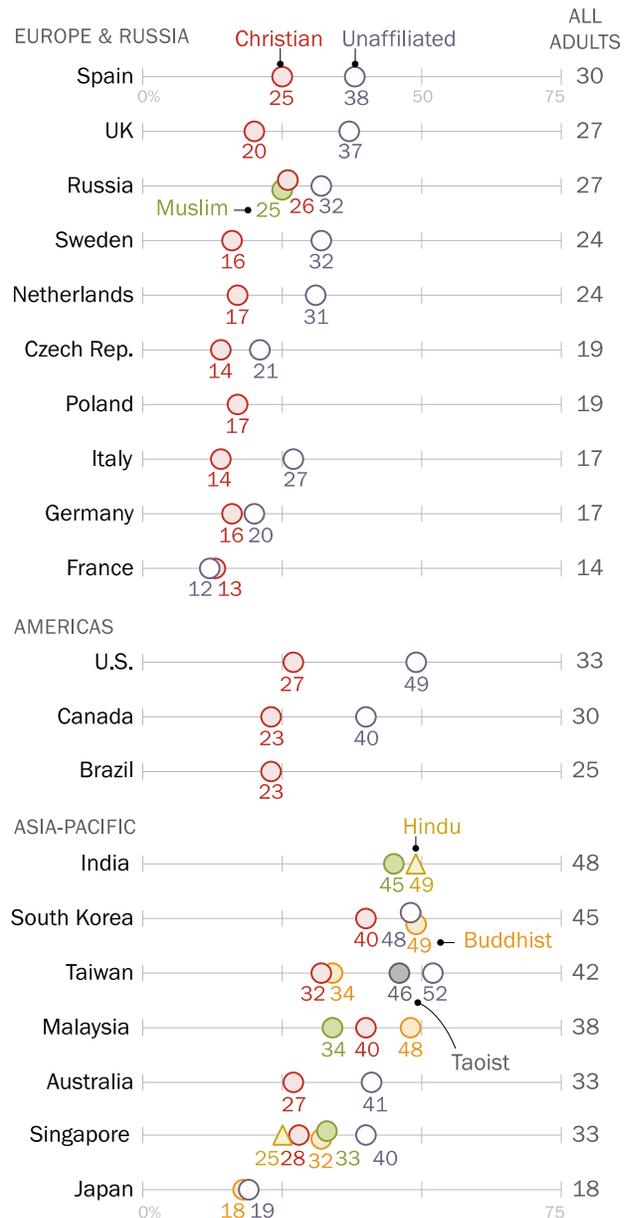
Elsewhere, differences among religious groups are less pronounced, including in France, Germany, India, Japan, South Korea and Russia.

In Taiwan, Taoists (46%) and unaffiliated (52%) adults are more accepting of animal cloning research than either Buddhists (34%) or Christians (32%).

Malaysian Buddhists are more likely than Malaysian Muslims to say animal cloning research is appropriate (48% vs. 34%, respectively).

### Support for animal cloning research tends to be higher among unaffiliated

% who say scientific research on animal cloning is appropriate



Note: Respondents who gave other responses or did not give an answer are not shown.  
 Source: International Science Survey 2019-2020. Q12b.  
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## There is broad public support for research on technologies that would help women get pregnant

In contrast to views about gene editing and animal cloning research, majorities in all places surveyed say that research into new technologies to help women get pregnant is appropriate (median of 73%). A median of just 21% say such research is a misuse of technology.

One of the better-known technologies aimed at helping women get pregnant is in vitro fertilization, or IVF. **Once controversial**, IVF is now in common use. There are a host of other biotechnologies being developed to aid reproduction. For example, some think **3D printing** could one day be used to repair ovaries and restore fertility.

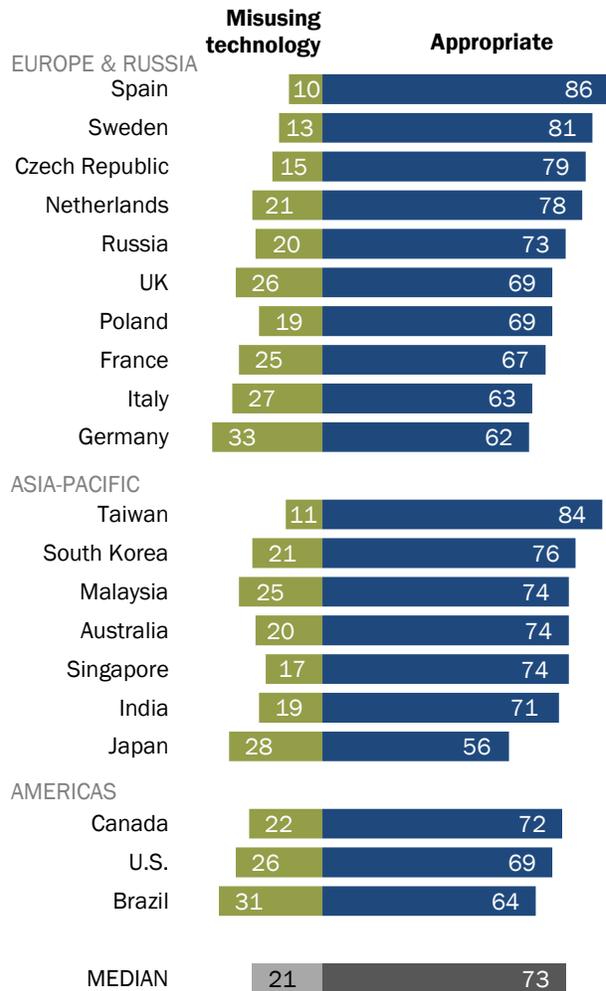
There is broad public support for research on pregnancy technologies. The Japanese are among the least supportive of new technologies to help women conceive. A slim majority sees such research as appropriate (56%), while 28% say it is misusing technology.

Women and men feel similarly positive about research on technologies that help women conceive in most publics surveyed.

Younger adults and the more highly educated tend to be more supportive of research in this area.

## Most approve of research into new technologies that will help women get pregnant

*% who say scientific research on new technologies to help women get pregnant is ...*



Note: Respondents who did not give an answer are not shown.  
 Source: International Science Survey 2019-2020, Q12c.  
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Larger shares of younger than older adults say research on new pregnancy technologies is appropriate in 16 of the 20 publics surveyed.

Age gaps are particularly large in Brazil and Japan. In Brazil, 78% of people who are at or younger than the country's median age supports this kind of research, compared with 49% of older adults. The gap between older and younger adults is similar in size in Japan (69% vs. 43%, respectively).

Those with more education are especially likely to approve of research on new pregnancy technologies in most places surveyed. Differences by education are largest in Brazil (25 percentage points), followed by Italy (17 percentage points).

Religion plays a modest role in public views about this issue.

As with other areas of biotechnology research, unaffiliated adults tend to be more accepting of research on new pregnancy technology than are Christians in most Western nations surveyed.

## Younger, more educated adults are often more supportive of research into new technologies to help women conceive

*% who say scientific research on new technologies to help women get pregnant is appropriate*

	Median age and younger	Older than median	DIFF	Less education	More education	DIFF
Brazil	78	49	<b>+29</b>	52	77	<b>-25</b>
Japan	69	43	<b>+26</b>	52	62	<b>-10</b>
France	76	58	<b>+18</b>	66	71	-5
U.S.	78	60	<b>+18</b>	60	74	<b>-14</b>
Russia	81	64	<b>+17</b>	67	76	-9
Italy	71	55	<b>+16</b>	60	77	<b>-17</b>
Canada	79	64	<b>+15</b>	63	78	<b>-15</b>
Poland	77	62	<b>+15</b>	65	79	<b>-14</b>
Australia	81	67	<b>+14</b>	70	83	<b>-13</b>
UK	77	63	<b>+14</b>	66	79	<b>-13</b>
Netherlands	83	72	<b>+11</b>	75	83	-8
Germany	67	57	<b>+10</b>	62	66	-4
Malaysia	78	69	<b>+9</b>	72	81	-9
Taiwan	88	79	<b>+9</b>	80	88	-8
Sweden	85	77	<b>+8</b>	81	83	-2
Czech Republic	82	76	<b>+6</b>	77	88	<b>-11</b>
South Korea	79	73	<b>+6</b>	71	79	-8
Singapore	76	73	<b>+3</b>	70	78	-8
Spain	87	85	<b>+2</b>	84	91	-7
India	71	70	<b>+1</b>	71	70	+1

Note: Statistically significant differences shown in **bold**. Respondents who gave other responses or did not give an answer are not shown. In India and Brazil, "more education" includes people who completed secondary or above. In all other survey publics, "more education" includes those who completed postsecondary or above.

Source: International Science Survey 2019-2020. Q12c.

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In [one-on-one interviews](#) the Center conducted in Singapore and Malaysia, Buddhist and Hindu interviewees generally spoke favorably about research on new pregnancy technologies, such as

IVF. Muslims interviewees also discussed this kind of research in positive terms, though a number of interviewees noted their approval depended on how such procedures are used. In particular, Muslim interviewees said these procedures should only be available to married couples and should only use the husband and wife's genetic material.

The Center survey finds roughly seven-in-ten Malaysian Muslims, Buddhists and Christians see such research as appropriate, as do roughly three-quarters of Buddhists and Christians and 57% of Muslims in Singapore. There is also broad support for such research in Taiwan among both Buddhists and Taoists. Religiously unaffiliated adults have similar views to other religious groups in Singapore and Taiwan.

## Majorities in most publics accept evolution, but there are differences across religious groups

Evolution, a foundational theory for much of modern biology, has long been a [source of conflict](#) between religion and science.

The Center survey found broad acceptance of evolution across publics. A median of 74% say humans and other living things have evolved over time, while a median of just 21% say humans and other living things have existed in their present form since the beginning of time.

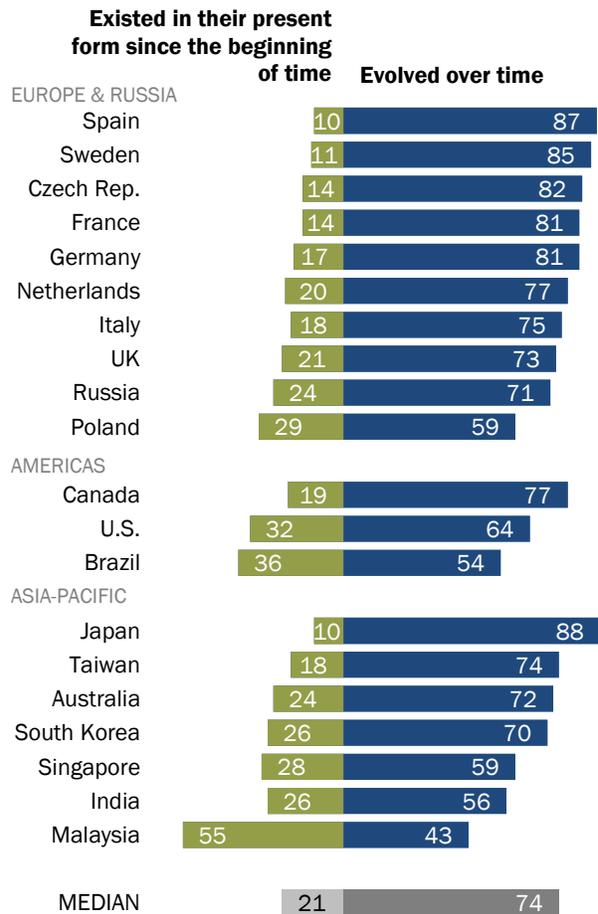
Eight-in-ten or more in Japan, Spain, Sweden, the Czech Republic, France and Germany say humans and other living things have evolved over time, as do majorities elsewhere. Malaysia is the only public in which the balance of opinion is the opposite (43% vs. 55% saying humans and other living things have existed in their present form since the beginning of time).

Beliefs about evolution are strongly linked with religious affiliation. Larger shares of Christians say that humans and other living things have existed over time in their present form. In contrast, unaffiliated adults are generally more accepting of evolution. Differences between Christians and the unaffiliated are particularly wide in the U.S. and in South Korea (a 35 and 33 percentage point gap, respectively).

Similarly, Christians are at least 20 points less likely than the unaffiliated to accept evolution in Australia, the UK, Canada, the Netherlands and in Taiwan.

### Majorities in most of these publics say humans and other life has evolved

% who say humans and other living things have ...



Note: Respondents who did not give an answer are not shown.  
 Source: International Science Survey 2019-2020. Q36.  
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Christians for whom religion is more salient are less accepting of the idea that humans and other living things have evolved over time. In Canada, for example, about half of Christians who say religion is very important to them (49%) accept evolution, compared with 89% of Christians for whom religion is not too or not at all important. (See [Appendix](#) for more details.)

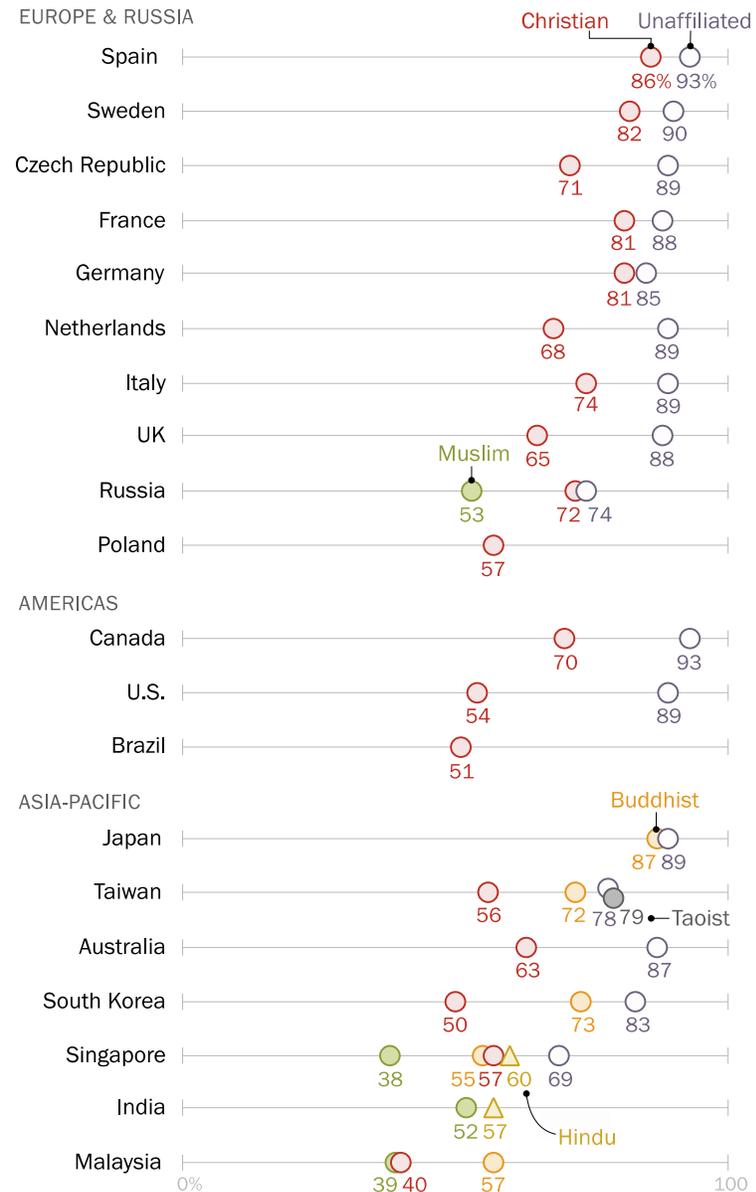
Followers of Islam also tend to be less accepting of evolution. In Malaysia and Singapore, roughly four-in-ten Muslims say that humans and other living things have evolved. In India and Russia, roughly half say this.

A [Center survey of Muslims](#) worldwide conducted in 2011 and 2012 found acceptance of evolution varied across world regions and countries. Muslims in South and Southeast Asian publics in that study also expressed lower levels of belief that humans and other living things have evolved over time.

During [in-depth interviews](#), Muslim interviewees in Singapore and Malaysia often brought up concerns that the

## Unaffiliated are particularly likely to say humans have evolved over time

% who say humans and other living things have evolved over time



Note: Respondents who gave other responses or did not give an answer are not shown.  
 Source: International Science Survey 2019-2020. Q36.  
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theory of evolution is incompatible with the Islamic tenet that humans were created by Allah, though Muslim interviewees sometimes differed in their own views about this.

Buddhists, followers of a religion with no creator figure, are generally more accepting of evolution. Majorities of Buddhists in Japan, South Korea, Taiwan, Malaysia and Singapore say that humans and other living things have evolved over time.

In Taiwan, at least seven-in-ten Buddhists (72%), Taoists (79%) and religiously unaffiliated (78%) accept evolution. By comparison, 56% of Christians in Taiwan say the same.

Majorities of Hindus in India (57%) and Singapore (60%) say that humans and other living things have evolved over time.

These findings are broadly aligned with [Center findings](#) from qualitative interviews conducted with Buddhists and Hindus in Singapore and Malaysia.

*More educated adults are often more likely to accept theory of evolution*

People's beliefs about evolution also vary with their level of education. Across 18 of 20 publics, those with more education are more accepting of evolution, saying that humans and other living things have evolved over time. Differences between those with more and less education range from 27 percentage points in Singapore to 8 percentage points in Japan, where large majorities at both levels of education say humans and other living things have evolved. Malaysia and the Czech Republic are the only places where those with more and less education are about equally likely to accept evolution.

Differences in beliefs about evolution by education hold even when looking only at those who are affiliated with a religion. In a handful of places, those who have also completed more science training are especially likely to say that humans and other living things have evolved over time. (See [Appendix](#) for more.)

*Those who reject evolution are of two minds about whether scientific and religious explanations on the origins of life can be compatible*

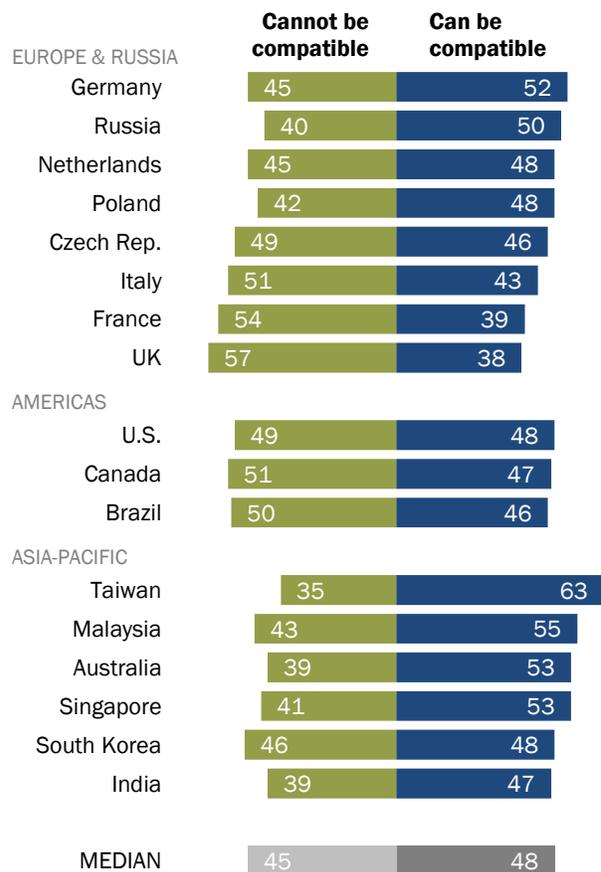
The Center survey also captured respondents' sense of the degree to which scientific and religious explanations related to evolution are at odds.

Those who believe humans and other living things have existed in their present form throughout time are closely divided over whether or not scientific and religious explanations for the origins of life can be compatible. A median of 48% across the 17 publics with a large enough sample for analysis say they can, while a median of 45% say the two cannot be compatible.

For example, among Americans who reject evolution, 48% think scientific and religious explanations for the origins of life can be compatible, while an equal share (49%) says otherwise. There are wide differences of opinion on this question across all publics surveyed.

### Mixed verdicts about whether scientific and religious explanations for origins of life can be compatible

*Among those who say humans and other living things have existed in their present form since the beginning of time, % who say scientific explanations and religious explanations for the origins of life ...*



Note: Based on those who said humans and other living things have existed in their present form since the beginning of time. There were not enough respondents in this group to analyze in all publics. Those who did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q37.

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## While some see a general conflict between science and religion, few say their own religious beliefs are often in tension with science

There is a long-standing debate about whether science and religion are compatible with one another, inherently at odds, or perhaps best seen in some other way altogether.

Asked to report how often their personal religious beliefs conflict with science, a median of just one-in-ten say there is often conflict. A median of 31% across the 20 publics surveyed say such conflict occurs at least sometimes.

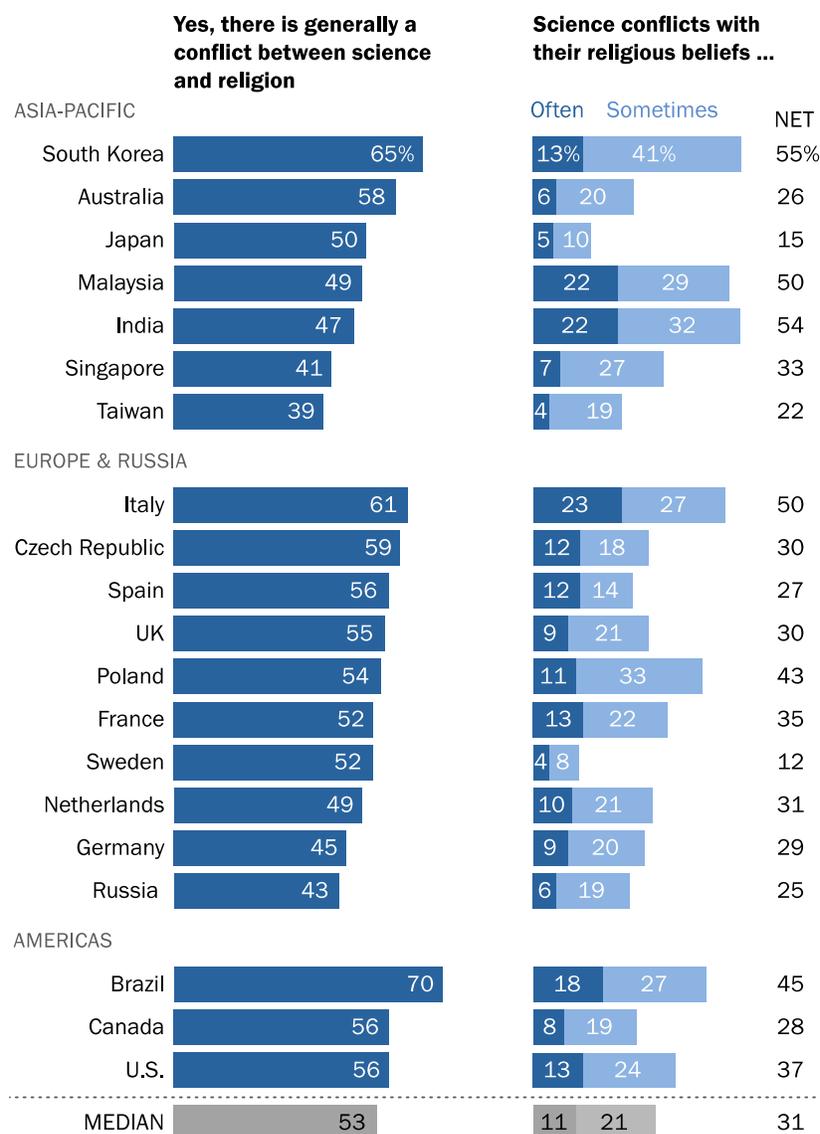
Majorities across most of these publics say there is rarely or never conflict between the two.

But when people think about the broad idea of whether science and religion are at odds, larger shares see the two as being in conflict (20-public median of 53%). That point of view is particularly common among people who do not identify with a religious group.

Views about these issues tend to vary by religion as well as place, however.

### Half or more in most publics say there is a general conflict between science and religion

*% who say the following*



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q33, Q34.

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Religiously unaffiliated adults are more inclined than others to see a general conflict between science and religion. Half or more unaffiliated say the two conflict in 13 of these publics.

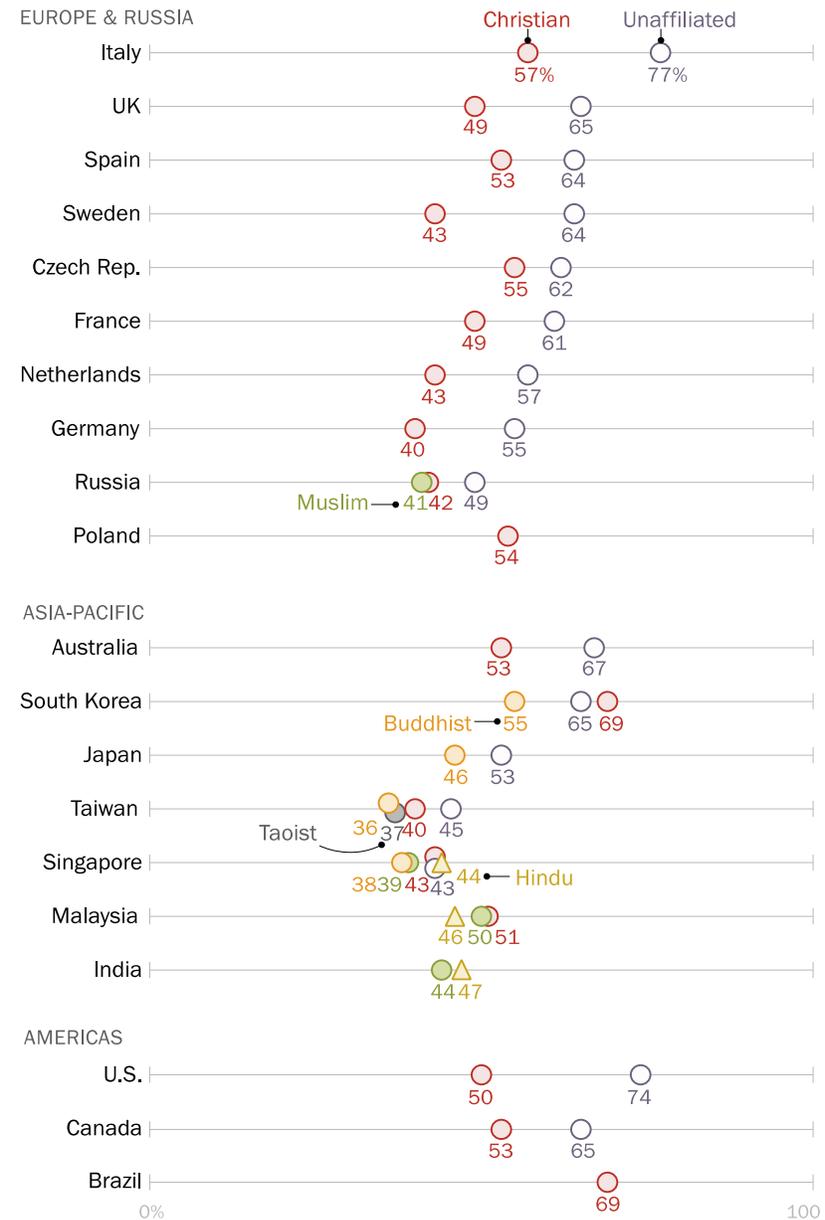
Differences between the affiliated and unaffiliated are more pronounced in places with a larger Christian population, including the U.S., Canada, Australia, Sweden and a number of other Western European nations.

In more religiously diverse places such as Singapore and Taiwan, about half or more of all religious groups with large enough samples for separate analysis say there is no conflict between science and religion.

In India, Hindus and Muslims are about equally likely to say religion and science generally conflict (47% and 44%). And in Malaysia, Muslims and Buddhists are about equally likely to say religion and science are generally at odds (50% and 46%). (There are not enough unaffiliated adults in the survey samples for separate analysis in either country.)

### Christians less likely than the unaffiliated to say there is a general conflict between religion and science

*% who say there is generally a conflict between science and religion*



Note: Respondents who gave other responses or did not give an answer are not shown.  
 Source: International Science Survey 2019-2020. Q33.  
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## **Followers of Christianity and Islam see more frequent conflict between science and their religious beliefs**

To the extent that people experience conflict, Christians tend to think a tension between science and their religious beliefs occurs more frequently than do those who are unaffiliated. The share of Christians who say conflict between the two occurs at least sometimes is highest in South Korea (64%), Malaysia (54%) and Italy (54%). Elsewhere, the share of Christians who say there is often or sometimes conflict between science and their beliefs falls short of half.

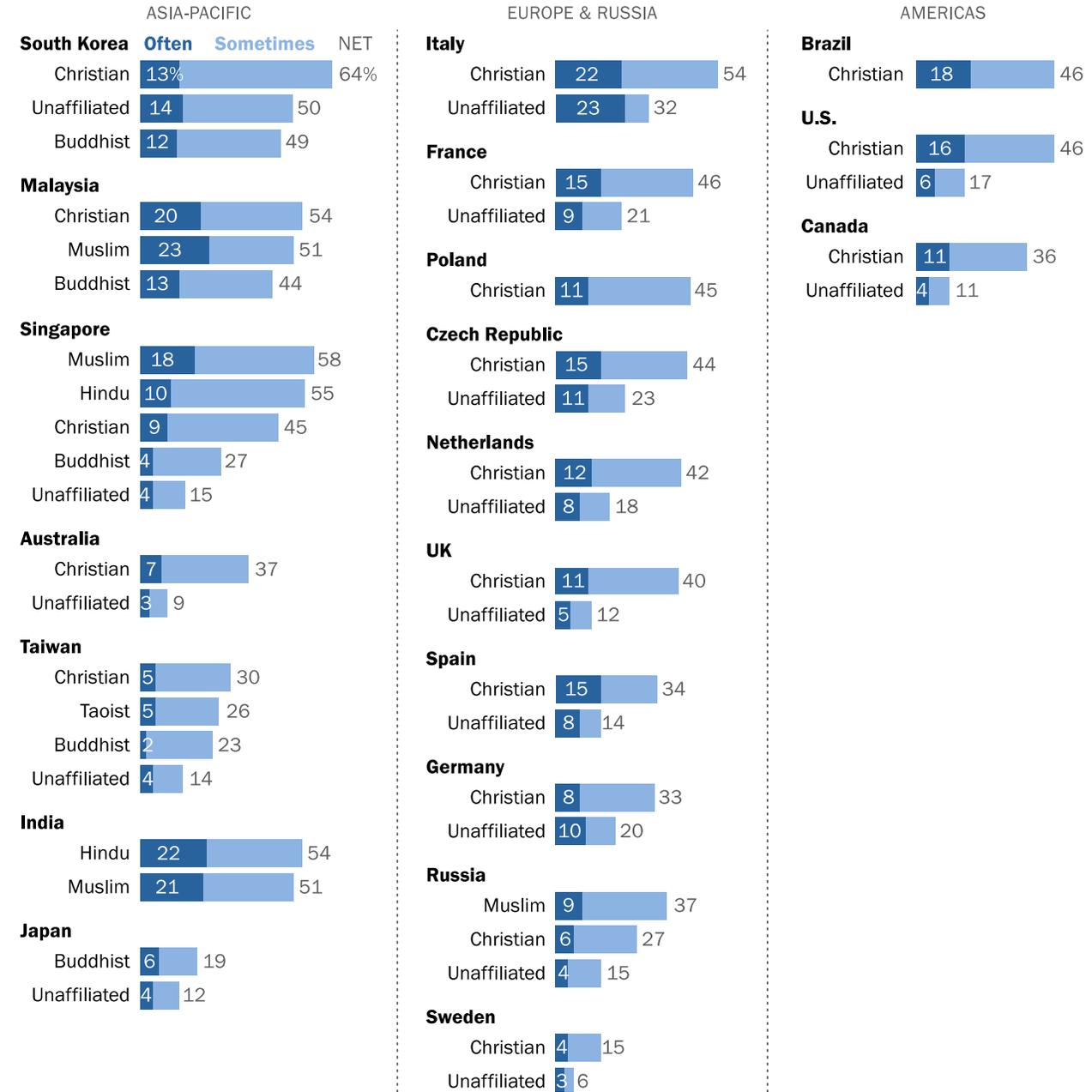
Half or more Muslims in Singapore (58%), India (51%) and Malaysia (51%) say their religious beliefs are at odds with science at least sometimes. In Russia, the only other place surveyed with enough Muslim respondents for separate analysis, 37% say there is often or sometimes tension between science and their religious beliefs.

In a [Center study](#) using in-depth interviews in Singapore and Malaysia, Muslim interviewees offered a wide range of views about the relationship between science and their religion. One Muslim woman (age 20) in Singapore described it this way: *“I feel like, sometimes, or most of the time, they are against each other. ... Science is about experimenting, researching, finding new things, or exploring different possibilities. But then, religion is very fixed, to me.”* But a Muslim man in Malaysia (age 24) offered a different perspective: *“I think there is not any conflict between them. ... In my opinion, I still believe that it happens because of God, just that the science will help to explain the details about why it is happening.”*

By comparison, Buddhists tend to say conflict is less common. For example, 27% of Buddhists in Singapore, 23% in Taiwan and 19% in Japan say their religious beliefs at least sometimes conflict with science. Although 44% of Buddhists in Malaysia say this occurs at least sometimes, as do 49% of Buddhists in South Korea. In the same Center study using in-depth interviews, many Buddhists interviewees described science and religion as separate spheres. For example, one Buddhist woman in Singapore (age 26) said, *“Science to me is statistics, numbers, texts – something you can see, you can touch, you can hear. Religion is more of something you cannot see, you cannot touch, you cannot hear. I feel like they are different faculties.”*

## Christians tend to see more frequent conflict between science and their religious beliefs, Buddhists see less frequent conflict

% who say their religious beliefs often or sometimes conflict with science



Note: Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q34.

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Religious salience also plays a role in how often people experience conflict between their religious beliefs and science. Differences by religious salience are especially pronounced in places with larger shares of Christians in the West. In the Netherlands, the UK, Canada and the U.S., about half or more of affiliated adults who say religion is very important also say that conflict between science and their beliefs occurs at least sometimes. No more than a quarter of those who are affiliated and say religion is not too or not at all important in these countries say this. (See the [Appendix](#).)

The vast majority of Muslims in Malaysia, India and Singapore say that religion is very important in their lives.

In India, three-quarters of Hindus say that religion is very important in their lives. About eight-in-ten Hindus in India (79%) have a shrine or temple in their home. Those that do are more likely than Hindus who don't to say their religious beliefs and science are often in competition (24% vs. 16%).

Buddhists stand out for their smaller shares of followers who describe religion as very important in their lives. Religious salience is not closely related to how often Buddhists say their religious beliefs conflict with science in the places surveyed. Nor are their sizable differences in views on this question between Buddhists who have a shrine at home and those who do not.

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### Primary research team

Cary Funk, *Director, Science and Society Research*  
Alec Tyson, *Associate Director, Science and Society Research*  
Brian Kennedy, *Senior Researcher*  
Courtney Johnson, *Research Associate*  
Janell Fetterolf, *Research Associate*  
Cary Lynne Thigpen, *Research Assistant*  
Alison Spencer, *Research Assistant*

### International methods research team

Patrick Moynihan, *Associate Director, International Research Methods*  
Martha McRoy, *Research Methodologist*  
Stacy Pancratz, *Research Methodologist*  
Alexandra Castillo, *Research Methodologist*

### Editorial and graphic design

Travis Mitchell, *Copy Editor*  
Margaret Porteus, *Information Graphics Designer*  
Peter Bell, *Design Director*

### Communications and web publishing

Haley Nolan, *Communications Associate*  
Kelsey Beveridge, *Communications Associate*  
Anna Schiller, *Senior Communications Manager*  
Reem Nadeem, *Associate Digital Producer*

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## Methodology

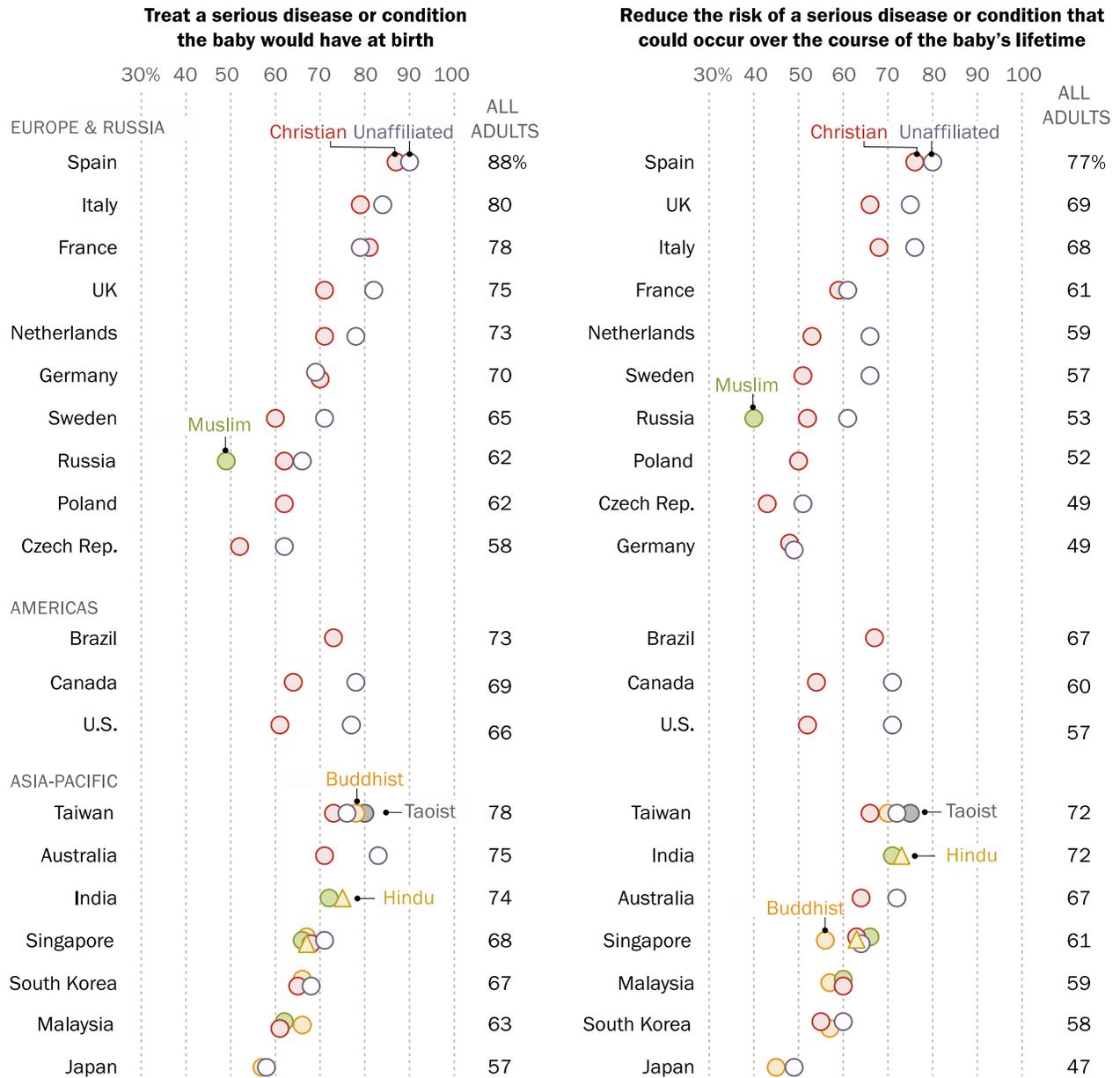
### About Pew Research Center's International Science Survey 2019–2020

Results for the survey are based on telephone and face-to-face interviews conducted under the direction of Kantar Public UK, Kantar Public Korea, Langer Research Associates and Abt Associates. The results are based on national samples, unless otherwise noted. More details about our international survey methodology and country-specific sample designs are available [here](#).

## Appendix: Detailed tables and charts

### Religious adults are often less supportive of using gene editing to treat, reduce risk of disease in babies

% who say it is appropriate to use gene editing to change a baby's genetic characteristics to do each of the following



Note: Respondents who gave other responses or did not give an answer are not shown.  
 Source: International Science Survey 2019-2020. Q23b, c.  
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## Christians' views on evolution vary by levels of religious salience

*% of Christians who say humans and other living things have evolved over time*

**Christian adults, who say religion is  
\_\_ important in their lives**

	<b>Very</b>	<b>Somewhat</b>	<b>Not too/ Not at all</b>	<b>Very - Not too/ Not at all DIFF</b>
Australia	36	73	82	<b>-46</b>
Canada	49	75	89	<b>-40</b>
Netherlands	50	69	83	<b>-33</b>
Poland	45	60	71	<b>-26</b>
Spain	67	93	92	<b>-25</b>
France	65	79	87	<b>-22</b>
Germany	69	83	87	<b>-18</b>
UK	55	67	73	<b>-18</b>
Italy	64	79	79	<b>-15</b>
Russia	62	74	77	<b>-15</b>

Note: Statistically significant differences shown in **bold**.

Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q36.

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## Those with high levels of education more likely to say humans have evolved over time

*% who say humans and other living things have evolved over time*

	Education			More education		
	Less educ	More educ	DIFF	0-2 sci courses	3+ sci courses	DIFF
EUROPE & RUSSIA						
Italy	72	92	<b>+20</b>	92	93	+1
Poland	53	73	<b>+20</b>	69	79	+10
Netherlands	73	88	<b>+15</b>	84	94	<b>+10</b>
Russia	62	76	<b>+14</b>	73	78	+5
Spain	83	95	<b>+12</b>	94	96	+2
Germany	80	91	<b>+11</b>	91	91	0
Sweden	82	92	<b>+10</b>	90	96	<b>+6</b>
UK	71	81	<b>+10</b>	79	85	+6
France	79	88	<b>+9</b>	88	87	-1
Czech Republic	81	88	+7	92	84	-8
AMERICAS						
Brazil	45	64	<b>+19</b>	61	66	+5
U.S.	53	71	<b>+18</b>	64	77	<b>+13</b>
Canada	68	83	<b>+15</b>	81	86	<b>+5</b>
ASIA-PACIFIC						
Singapore	44	71	<b>+27</b>	67	77	<b>+10</b>
Taiwan	67	84	<b>+17</b>	83	87	+4
Australia	68	81	<b>+13</b>	78	86	<b>+8</b>
India	52	65	<b>+13</b>	65	66	+1
South Korea	63	74	<b>+11</b>	73	79	+6
Japan	85	93	<b>+8</b>	92	95	+3
Malaysia	42	45	+3	41	54	<b>+13</b>

Note: Significant differences in **bold**. Respondents who gave other responses or did not give an answer are not shown. In India and Brazil, "more education" includes people who completed secondary or above. In all other survey publics, "more education" includes those who completed postsecondary or above.

Source: International Science Survey 2019-2020. Q36.

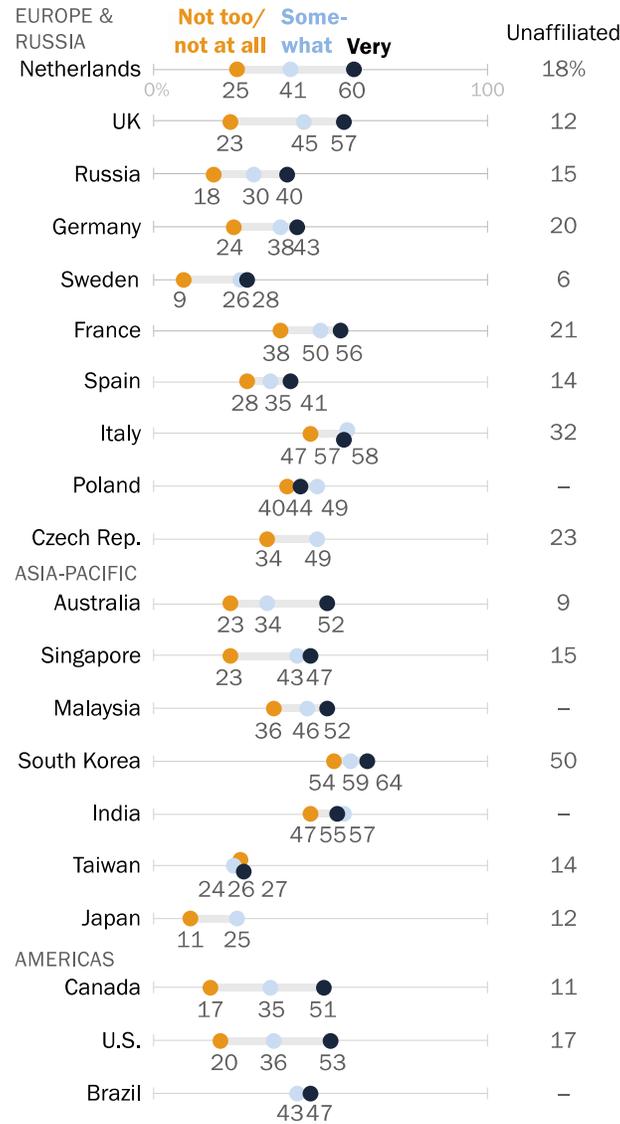
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## Very religious see conflict between their religious beliefs and science more often

% who say their religious beliefs conflict with science often or sometimes

Among those who are affiliated, who say religion is \_\_\_ important in their lives



Note: Dash indicates not enough respondents in group to analyze. Respondents who gave other responses or did not give an answer are not shown.

Source: International Science Survey 2019-2020. Q34.

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## Topline questionnaire

### International Science Survey 2019-2020

Dec. 10, 2020 Release

#### Methodological notes:

- Survey results are based on national samples. For further details on sample designs, see Methodology section and our international survey methods [database](#).
- Due to rounding, percentages may not total 100%. The topline “total” columns show 100%, because they are based on unrounded numbers.
- Not all questions included in the International Science Survey 2019-2020 are presented in this topline. Omitted questions have either been previously released or will be released in future reports.

	<b>Q12a. Do you think scientific research on _____ is appropriate or misusing technology? a. gene editing to change people's genetic characteristics</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	31	63	6	100
<b>Brazil</b>	25	66	9	100
<b>Canada</b>	30	62	8	100
<b>Czech Republic</b>	21	71	8	100
<b>France</b>	16	75	9	100
<b>Germany</b>	28	68	5	100
<b>India</b>	56	24	20	100
<b>Italy</b>	21	68	11	100
<b>Japan</b>	26	60	14	100
<b>Malaysia</b>	29	69	3	100
<b>Netherlands</b>	31	66	3	100
<b>Poland</b>	22	64	14	100
<b>Russia</b>	30	58	12	100
<b>Singapore</b>	38	47	15	100
<b>South Korea</b>	47	48	5	100
<b>Spain</b>	32	57	11	100
<b>Sweden</b>	29	63	8	100
<b>Taiwan</b>	44	47	8	100
<b>United Kingdom</b>	34	58	8	100
<b>United States</b>	29	66	5	100

	<b>Q12b. Do you think scientific research on _____ is appropriate or misusing technology? b. cloning of animals</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	33	63	4	100
<b>Brazil</b>	25	68	8	100
<b>Canada</b>	30	63	7	100
<b>Czech Republic</b>	19	75	6	100
<b>France</b>	14	80	7	100
<b>Germany</b>	17	79	3	100
<b>India</b>	48	31	21	100
<b>Italy</b>	17	77	6	100
<b>Japan</b>	18	70	11	100
<b>Malaysia</b>	38	57	4	100
<b>Netherlands</b>	24	73	3	100
<b>Poland</b>	19	70	12	100
<b>Russia</b>	27	65	8	100
<b>Singapore</b>	33	50	17	100
<b>South Korea</b>	45	51	3	100
<b>Spain</b>	30	61	9	100
<b>Sweden</b>	24	70	6	100
<b>Taiwan</b>	42	52	6	100
<b>United Kingdom</b>	27	67	6	100
<b>United States</b>	33	62	5	100

	<b>Q12c. Do you think scientific research on _____ is appropriate or misusing technology? c. new technologies to help women get pregnant</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	74	20	6	100
<b>Brazil</b>	64	31	5	100
<b>Canada</b>	72	22	6	100
<b>Czech Republic</b>	79	15	6	100
<b>France</b>	67	25	7	100
<b>Germany</b>	62	33	5	100
<b>India</b>	71	19	10	100
<b>Italy</b>	63	27	10	100
<b>Japan</b>	56	28	16	100
<b>Malaysia</b>	74	25	2	100
<b>Netherlands</b>	78	21	2	100
<b>Poland</b>	69	19	12	100
<b>Russia</b>	73	20	7	100
<b>Singapore</b>	74	17	9	100
<b>South Korea</b>	76	21	3	100
<b>Spain</b>	86	10	3	100
<b>Sweden</b>	81	13	6	100
<b>Taiwan</b>	84	11	5	100
<b>United Kingdom</b>	69	26	5	100
<b>United States</b>	69	26	5	100

	<b>Q23a. Now, thinking about gene editing that can be used to change a baby's genetic characteristics. Would you say it is appropriate or misusing technology to change a baby's genetic characteristics ____? a. to make the baby more intelligent</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	11	87	2	100
<b>Brazil</b>	27	68	5	100
<b>Canada</b>	12	84	4	100
<b>Czech Republic</b>	11	82	6	100
<b>France</b>	11	86	3	100
<b>Germany</b>	9	89	2	100
<b>India</b>	64	26	10	100
<b>Italy</b>	13	80	6	100
<b>Japan</b>	8	86	6	100
<b>Malaysia</b>	44	54	2	100
<b>Netherlands</b>	9	89	1	100
<b>Poland</b>	14	75	11	100
<b>Russia</b>	18	76	6	100
<b>Singapore</b>	29	62	9	100
<b>South Korea</b>	15	83	2	100
<b>Spain</b>	16	81	4	100
<b>Sweden</b>	10	87	3	100
<b>Taiwan</b>	31	63	6	100
<b>United Kingdom</b>	12	85	3	100
<b>United States</b>	17	80	3	100

	<b>Q23b. Would you say it is appropriate or misusing technology to change a baby's genetic characteristics ____? b. to REDUCE THE RISK of a serious disease or condition that could occur over the course of the baby's lifetime</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	67	28	5	100
<b>Brazil</b>	67	26	7	100
<b>Canada</b>	60	33	7	100
<b>Czech Republic</b>	49	38	13	100
<b>France</b>	61	33	6	100
<b>Germany</b>	49	45	6	100
<b>India</b>	72	17	11	100
<b>Italy</b>	68	22	10	100
<b>Japan</b>	47	41	12	100
<b>Malaysia</b>	59	38	3	100
<b>Netherlands</b>	59	39	3	100
<b>Poland</b>	52	33	16	100
<b>Russia</b>	53	36	11	100
<b>Singapore</b>	61	26	12	100
<b>South Korea</b>	58	38	4	100
<b>Spain</b>	77	17	6	100
<b>Sweden</b>	57	34	9	100
<b>Taiwan</b>	72	22	6	100
<b>United Kingdom</b>	69	25	6	100
<b>United States</b>	57	38	5	100

	<b>Q23c. Would you say it is appropriate or misusing technology to change a baby's genetic characteristics ____? c. to TREAT a serious disease or condition the baby would have at birth</b>			
	<b>Appropriate</b>	<b>Misusing technology</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	75	21	4	100
<b>Brazil</b>	73	21	6	100
<b>Canada</b>	69	25	6	100
<b>Czech Republic</b>	58	31	12	100
<b>France</b>	78	16	6	100
<b>Germany</b>	70	27	4	100
<b>India</b>	74	16	11	100
<b>Italy</b>	80	13	8	100
<b>Japan</b>	57	33	9	100
<b>Malaysia</b>	63	35	3	100
<b>Netherlands</b>	73	24	3	100
<b>Poland</b>	62	23	14	100
<b>Russia</b>	62	28	11	100
<b>Singapore</b>	68	22	9	100
<b>South Korea</b>	67	30	3	100
<b>Spain</b>	88	8	4	100
<b>Sweden</b>	65	26	9	100
<b>Taiwan</b>	78	14	8	100
<b>United Kingdom</b>	75	19	6	100
<b>United States</b>	66	30	4	100

	<b>Q33. In your opinion, do you think there is generally a conflict between science and religion, or not?</b>			
	<b>Yes, there is generally a conflict between science and religion</b>	<b>No, there is NOT a conflict between science and religion</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	58	40	3	100
<b>Brazil</b>	70	25	5	100
<b>Canada</b>	56	40	4	100
<b>Czech Republic</b>	59	32	9	100
<b>France</b>	52	40	8	100
<b>Germany</b>	45	52	3	100
<b>India</b>	47	36	17	100
<b>Italy</b>	61	35	5	100
<b>Japan</b>	50	39	10	100
<b>Malaysia</b>	49	50	1	100
<b>Netherlands</b>	49	48	3	100
<b>Poland</b>	54	35	11	100
<b>Russia</b>	43	47	10	100
<b>Singapore</b>	41	52	7	100
<b>South Korea</b>	65	32	4	100
<b>Spain</b>	56	39	4	100
<b>Sweden</b>	52	42	6	100
<b>Taiwan</b>	39	59	3	100
<b>United Kingdom</b>	55	41	4	100
<b>United States</b>	56	42	2	100

	<b>Q34. Thinking about your own beliefs, how often would you say your religious beliefs conflict with science – often, sometimes, rarely or never?</b>						
	<b>Often</b>	<b>Sometimes</b>	<b>Rarely</b>	<b>Never</b>	<b>Have no religious beliefs (DO NOT READ)</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	6	20	23	47	3	1	100
<b>Brazil</b>	18	27	22	27	1	5	100
<b>Canada</b>	8	19	22	48	2	1	100
<b>Czech Republic</b>	12	18	19	22	26	2	100
<b>France</b>	13	22	18	37	7	3	100
<b>Germany</b>	9	20	22	44	4	1	100
<b>India</b>	22	32	13	17	1	14	100
<b>Italy</b>	23	27	19	23	4	3	100
<b>Japan</b>	5	10	31	50	1	2	100
<b>Malaysia</b>	22	29	24	25	0	1	100
<b>Netherlands</b>	10	21	24	42	2	1	100
<b>Poland</b>	11	33	29	18	5	5	100
<b>Russia</b>	6	19	21	43	6	5	100
<b>Singapore</b>	7	27	28	28	6	4	100
<b>South Korea</b>	13	41	20	20	2	3	100
<b>Spain</b>	12	14	19	49	4	2	100
<b>Sweden</b>	4	8	20	59	8	1	100
<b>Taiwan</b>	4	19	29	42	5	1	100
<b>United Kingdom</b>	9	21	18	47	4	1	100
<b>United States</b>	13	24	23	37	2	1	100

	<b>Q36. Thinking about evolution, which comes closer to your view?</b>			
	<b>Humans and other living things have evolved over time</b>	<b>Humans and other living things have existed in their present form since the beginning of time</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	72	24	4	100
<b>Brazil</b>	54	36	10	100
<b>Canada</b>	77	19	4	100
<b>Czech Republic</b>	82	14	3	100
<b>France</b>	81	14	5	100
<b>Germany</b>	81	17	2	100
<b>India</b>	56	26	17	100
<b>Italy</b>	75	18	7	100
<b>Japan</b>	88	10	2	100
<b>Malaysia</b>	43	55	2	100
<b>Netherlands</b>	77	20	3	100
<b>Poland</b>	59	29	12	100
<b>Russia</b>	71	24	5	100
<b>Singapore</b>	59	28	13	100
<b>South Korea</b>	70	26	4	100
<b>Spain</b>	87	10	3	100

	<b>Q36. Thinking about evolution, which comes closer to your view?</b>			
	<b>Humans and other living things have evolved over time</b>	<b>Humans and other living things have existed in their present form since the beginning of time</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Sweden</b>	85	11	4	100
<b>Taiwan</b>	74	18	7	100
<b>United Kingdom</b>	73	21	5	100
<b>United States</b>	64	32	4	100

	<b>Q37. In your opinion, can scientific explanations and religious explanations for the origins of life on Earth be compatible, or do you not think so?</b>			
	<b>Yes, scientific and religious explanations can be compatible</b>	<b>No, scientific and religious explanations cannot be compatible</b>	<b>DK/Refused</b>	<b>Total</b>
<b>Australia</b>	43	52	5	100
<b>Brazil</b>	49	44	7	100
<b>Canada</b>	43	52	4	100
<b>Czech Republic</b>	29	63	8	100
<b>France</b>	35	57	8	100
<b>Germany</b>	45	52	3	100
<b>India</b>	41	36	23	100
<b>Italy</b>	33	59	8	100
<b>Japan</b>	30	59	11	100
<b>Malaysia</b>	54	44	2	100
<b>Netherlands</b>	47	49	4	100
<b>Poland</b>	38	49	13	100
<b>Russia</b>	45	44	11	100
<b>Singapore</b>	49	41	10	100
<b>South Korea</b>	52	42	6	100
<b>Spain</b>	34	62	4	100
<b>Sweden</b>	36	57	7	100
<b>Taiwan</b>	60	33	7	100
<b>United Kingdom</b>	36	58	6	100
<b>United States</b>	54	42	3	100

	[ASK IF NOT MUSLIM] ATTEND. Aside from weddings and funerals, how often do you attend religious services... more than once a week, once a week, once or twice a month, a few times a year, seldom or never?								
	More than once a week	Once a week	Once or twice a month	A few times a year	Seldom	Never	Muslim (should not have received question)	DK/Refused	Total
Australia	5	9	7	18	22	38	0	1	100
Brazil	21	23	16	13	18	7	0	1	100
Canada	5	12	10	19	27	25	0	2	100
Czech Republic	1	5	3	9	21	61	0	1	100
France	1	5	5	13	31	44	0	2	100
Germany	3	4	9	23	25	36	0	1	100
India	14	22	22	16	19	4	0	2	100
Italy	7	16	15	27	15	19	0	2	100
Japan	2	1	6	24	29	37	0	0	100
Malaysia	17	16	14	20	26	6	0	1	100
Netherlands	3	7	8	14	30	38	0	1	100
Poland	3	31	15	20	16	8	0	5	100
Russia	1	5	10	22	32	29	0	1	100
Singapore	5	13	10	20	33	16	0	3	100
South Korea	15	10	10	15	13	37	0	0	100
Spain	4	6	8	15	31	35	0	1	100
Sweden	1	3	6	24	37	29	0	0	100
Taiwan	5	6	14	26	35	15	0	0	100
United Kingdom	4	10	6	21	23	35	0	1	100
United States	12	21	13	18	17	16	0	1	100

	[ASK IF MUSLIM] ATTEND_M. On average, how often do you attend a mosque or Islamic Center for salah or Friday Prayer? More than once a week, once a week for Friday Prayer, once or twice a month, a few times a year especially for Eid, seldom or never?								
	More than once a week	Once a week for Friday Prayer	Once or twice a month	A few times a year especially for Eid	Seldom	Never	Muslim (should have received question, but did not)	DK/Refused	Total
India	53	22	2	5	3	13	0	2	100
Malaysia	48	20	8	8	13	2	0	1	100
Russia	2	18	7	15	26	29	0	3	100
Singapore	33	27	12	10	13	5	0	1	100

	[ASK IF NOT MUSLIM] PRAY. Aside from religious services, do you pray...?									
	Several times a day	Once a day	A few times a week	Once a week	A few times a month	Seldom	Never	Muslim (should not have received question)	DK/Refused	Total
Australia	11	10	7	2	7	16	46	0	1	100
Brazil	36	36	9	5	3	7	4	0	0	100
Canada	15	16	8	4	6	17	30	0	3	100
Czech Republic	2	5	3	2	3	14	69	0	2	100
France	5	5	4	2	7	19	56	0	3	100
Germany	8	9	5	4	6	20	45	0	2	100
India	21	44	9	7	4	10	5	0	1	100
Italy	17	18	11	2	9	18	24	0	2	100
Japan	7	16	3	2	9	33	29	0	1	100
Malaysia	23	14	7	8	18	22	7	0	0	100
Netherlands	12	10	3	2	4	18	51	0	1	100
Poland	8	17	13	6	9	23	15	0	9	100
Russia	7	9	6	3	6	28	38	0	3	100
Singapore	10	13	5	4	7	27	32	0	2	100
South Korea	16	12	6	5	7	17	37	0	1	100
Spain	8	10	4	2	6	20	48	0	1	100
Sweden	4	5	3	2	4	20	62	0	0	100
Taiwan	9	10	5	3	18	40	15	0	0	100
United Kingdom	10	9	8	3	5	17	48	0	1	100
United States	30	19	13	3	6	13	14	0	2	100

	[ASK IF MUSLIM] PRAY_M. Concerning daily salah or prayer, do you, in general, pray all five salah daily, make some of the five salah daily, occasionally make salah, only make Eid prayers or do you never pray?							
	Pray all five salah daily	Make some of the five salah daily	Occasionally make salah	Only make Eid prayers	Never pray	Muslim (should have received question, but did not)	DK/Refused	Total
India	54	20	16	7	1	0	2	100
Malaysia	73	12	12	1	1	0	1	100
Russia	33	5	13	6	37	0	6	100
Singapore	57	17	17	4	3	0	3	100

	[ASK IF HINDU OR BUDDHIST] HOME. Do you have a shrine or temple for prayer in your home, or not?			
	Yes	No	DK/Refused	Total
India	79	20	1	100
Japan	69	31	0	100
Malaysia	62	37	1	100
Singapore	44	53	3	100
South Korea	11	89	1	100
Taiwan	48	52	0	100

Note: "Altar" used in Singapore.