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Level 6 – 20th April, 2021

Scientists create human-monkey chimera

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<https://breakingnewsenglish.com/2104/210420-chimera.html>

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Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this rapidly changing world, we are seeing more examples of science fiction becoming science fact. A team of American and Chinese scientists has created the world's first part-human, part-monkey embryo. This fusion of genetic tissue is called a chimera. The scientists say it potentially paves the way for lifesaving medical advances. Bio-scientist Henry Greely explained the importance of this scientific breakthrough. He said: "The long-term goal of this research team is to grow human organs in pigs - kidneys, livers, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a transplant list die every year waiting for a transplant."

The groundbreaking research involved injecting 25 human cells into the embryos of long-tailed macaque monkeys. The human cells developed inside 132 of the embryos. The scientists studied the development of the embryos for 19 days. Many people are disturbed by the research and believe it belongs to the realm of horror movies. Professor Greely said he appreciated that there are many ethical concerns around the creation and use of chimera. He said: "Every time a person gets an organ transplant, the result is an intra-species chimera - an organism made up of cells from two members of the same species....When a human gets a pig heart valve, she becomes an inter-species chimera."

Sources: <https://www.salon.com/2021/04/16/the-bioethics-of-the-first-human-monkey-hybrid-embryo/>
<https://www.webmd.com/a-to-z-guides/news/20210416/scientists-create-monkey-human-embryos>
<https://www.yahoo.com/news/scientists-created-hybrid-human-monkey-133712492.html>

WARM-UPS

1. HUMANS: Students walk around the class and talk to other students about humans. Change partners often and share your findings.

2. CHAT: In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

rapidly changing world / science fiction / part-human / monkey / chimera / liver / list / groundbreaking / embryo / cells / development / ethical / organ / transplant / species

Have a chat about the topics you liked. Change topics and partners frequently.

3. CHIMERA: Students A **strongly** believe it's OK for scientists to create a chimera; Students B **strongly** believe the opposite. Change partners again and talk about your conversations.

4. ORGANS: What do you know about these body organs? How could doctors help if they failed? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	What Doctors Could Do
The heart		
The kidneys		
The liver		
The lungs		
The brain		
The skin		

5. SCIENCE FICTION: Spend one minute writing down all of the different words you associate with the word "science fiction". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

6. TRANSPLANT: Rank these with your partner. Put the most beneficial transplants at the top. Change partners often and share your rankings.

- Heart
- Hair
- Face
- Skin
- Kidney
- Eye
- Liver
- Brain

VOCABULARY MATCHING

Paragraph 1

- | | |
|-----------------|--|
| 1. embryo | a. Any of the materials of which animals or plants are made. |
| 2. fusion | b. Create the circumstances to enable something to happen or be done. |
| 3. genetic | c. An unborn offspring in the process of development inside the mother's body. |
| 4. tissue | d. Remove living tissue or an organ and implant it in another part of the body or in another body. |
| 5. pave the way | e. The process or result of joining two or more things together to form a single entity. |
| 6. breakthrough | f. Relating to DNA. |
| 7. transplant | g. A sudden, dramatic, and important discovery or development. |

Paragraph 2

- | | |
|-----------------|---|
| 8. injecting | h. A device for controlling the flow of liquid or air through a tube or pipe. |
| 9. disturbed | i. Putting or forcing (a liquid, especially a drug or vaccine) into a person or animal's body with a syringe or similar device. |
| 10. realm | j. Caused to feel anxious. |
| 11. appreciated | k. Morally good or correct. |
| 12. ethical | l. Understand a situation fully. |
| 13. intra- | m. An area of activity or interest. |
| 14. valve | n. (A prefix added before adjectives) on the inside; within. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

1. TRUE / FALSE: Read the headline. Guess if a-h below are true (T) or false (F).

- a. The article says science fact is becoming science fiction. **T / F**
- b. The scientists are from the USA and China. **T / F**
- c. The goal of the research is to grow human organs in pigs. **T / F**
- d. The article says millions die while waiting for an organ transplant. **T / F**
- e. Scientists injected 132 human cells in 25 monkey embryos. **T / F**
- f. The scientists observed the embryos' development for over 3 weeks. **T / F**
- g. The article says this story will be made into a horror story. **T / F**
- h. If a human has a pig heart valve, that human becomes a chimera. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|--------------------------|-----------------|
| 1. rapidly | a. pass away |
| 2. fusion | b. get ready |
| 3. pave the way | c. development |
| 4. breakthrough | d. moral |
| 5. die | e. blending |
| 6. groundbreaking | f. progress |
| 7. development | g. acknowledged |
| 8. appreciated | h. quickly |
| 9. ethical | i. life form |
| 10. organism | j. innovative |

3. PHRASE MATCH: (Sometimes more than one choice is possible.)

- | | |
|-------------------------------------|------------------------|
| 1. In this rapidly | a. research |
| 2. science fiction becoming science | b. of horror movies |
| 3. This fusion of genetic tissue | c. list |
| 4. lifesaving medical | d. valve |
| 5. people on a transplant | e. is called a chimera |
| 6. groundbreaking | f. changing world |
| 7. people are disturbed | g. concerns |
| 8. it belongs to the realm | h. advances |
| 9. there are many ethical | i. fact |
| 10. a pig heart | j. by the research |

GAP FILL

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this (1) _____ changing world, we are seeing more examples of science fiction becoming science (2) _____. A team of American and Chinese scientists has created the world's first part-human, part-monkey (3) _____. This fusion of genetic tissue is called a chimera. The scientists say it potentially (4) _____ the way for lifesaving medical advances. Bio-scientist Henry Greely explained the importance of this scientific (5) _____. He said: "The long-term goal of this research team is to (6) _____ human organs in pigs - kidneys, (7) _____, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a transplant list (8) _____ every year waiting for a transplant."

The groundbreaking research involved (9) _____ 25 human cells into the embryos of long-(10) _____ macaque monkeys. The human cells developed inside 132 of the embryos. The scientists studied the development of the embryos for 19 days. Many people are (11) _____ by the research and believe it belongs to the (12) _____ of horror movies. Professor Greely said he appreciated that there are many (13) _____ concerns around the creation and use of chimera. He said: "Every time a person gets an organ (14) _____, the result is an intra-species chimera - an (15) _____ made up of cells from two members of the same species....When a human gets a pig heart (16) _____, she becomes an inter-species chimera."

embryo

grow

rapidly

die

breakthrough

fact

livers

paves

realm

transplant

valve

injecting

disturbed

organism

tailed

ethical

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

- 1) we are seeing more examples of science fiction _____
 - a. becoming science fact
 - b. becoming science factoid
 - c. becoming science factual
 - d. becoming science in fact
- 2) created the world's first part-human, _____
 - a. part-monkey embryonic
 - b. part-monkey embroil
 - c. part-monkey Yen bio
 - d. part-monkey embryo
- 3) called a chimera. The scientists say it potentially _____
 - a. shaves the way
 - b. shapes the way
 - c. paves the way
 - d. pates the way
- 4) The long-term goal of this research team is to _____
 - a. grow human organism
 - b. grow human nor gains
 - c. grow human organs
 - d. grow human organic
- 5) more human organs for transplants. Tens of thousands of people on _____
 - a. a transplant wrist
 - b. a transplant list
 - c. a transplant cyst
 - d. a transplant fist
- 6) The groundbreaking research involved injecting _____
 - a. 25 humanly cells
 - b. 25 human cells
 - c. 25 humane cells
 - d. 25 humanize cells
- 7) disturbed by the research and believe it belongs to the realm _____
 - a. of horror movies
 - b. of oral movies
 - c. of aura movies
 - d. of aurora movies
- 8) Professor Greely said he appreciated that there are _____
 - a. many ethically concerns
 - b. many ethical concern
 - c. many ethically concern
 - d. many ethical concerns
- 9) Every time a person gets an organ transplant, the result is an _____
 - a. intern-species chimera
 - b. intro-species chimera
 - c. intra-species chimera
 - d. inter-species chimera
- 10) When a human gets a pig heart valve, she becomes an _____
 - a. intra-species chimera
 - b. intern-species chimera
 - c. intro-species chimera
 - d. inter-species chimera

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this rapidly changing world, we are (1) _____ of science fiction becoming science fact. A team of American and Chinese scientists has created the world's first part-human, (2) _____. This fusion of genetic tissue is called a chimera. The scientists say it potentially paves the (3) _____ medical advances. Bio-scientist Henry Greely explained the importance of this scientific breakthrough. He said: "The (4) _____ of this research team is to grow human organs in pigs - (5) _____, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a (6) _____ every year waiting for a transplant."

The groundbreaking (7) _____ 25 human cells into the embryos of long-tailed macaque monkeys. The human cells developed inside 132 of the embryos. The (8) _____ development of the embryos for 19 days. Many people (9) _____ the research and believe it belongs to the realm of horror movies. Professor Greely said he appreciated that there (10) _____ concerns around the creation and use of chimera. He said: "Every time a person (11) _____ transplant, the result is an intra-species chimera - an organism made up of cells from two members of the same species....When a human gets a (12) _____, she becomes an inter-species chimera."

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

1. What does the article say science fiction is increasingly becoming?
2. What does the article say is fused to create a chimera?
3. What is the job of Henry Greely?
4. Where does the team hope to grow human organs?
5. How many people die while on transplant waiting lists?
6. What was injected into monkey embryos?
7. For how long did scientists study the development of the embryos?
8. What do many people think this research belongs to?
9. What kind of chimera is a person who gets an organ transplant?
10. What kind of chimera is a person who has a big heart valve?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

- 1) What does the article says science fiction is increasingly becoming?
 - a) manga
 - b) science fact
 - c) fairy tales
 - d) poems
- 2) What does the article say is fused to create a chimera?
 - a) electricity
 - b) skin
 - c) blood
 - d) genetic tissue
- 3) What is the job of Henry Greely?
 - a) bio-scientist
 - b) journalist
 - c) pig farmer
 - d) monkey expert
- 4) Where does the team hope to grow human organs?
 - a) in a lab
 - b) in the basement
 - c) in pigs
 - d) in the desert
- 5) How many people die while on transplant waiting lists?
 - a) thousands
 - b) tens of thousands
 - c) hundreds of thousands
 - d) millions
- 6) What was injected into monkey embryos?
 - a) human cells
 - b) DNA
 - c) a vaccine
 - d) a placebo
- 7) For how long did scientists study the development of the embryos?
 - a) 14 days
 - b) 18 days
 - c) 19 days
 - d) 21 days
- 8) What do many people think this research belongs to?
 - a) the realm of horror movies
 - b) the domain of nightmares
 - c) the land of fairy tales
 - d) the future
- 9) What kind of chimera is a person who gets an organ transplant?
 - a) an intra-species chimera
 - b) an inter-species chimera
 - c) a utero-species chimera
 - d) an intro-species chimera
- 10) What kind of chimera is a person who has a big heart valve?
 - a) a utero-species chimera
 - b) an intra-species chimera
 - c) an intro-species chimera
 - d) an inter-species chimera

ROLE PLAY

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

Role A – Heart

You think a heart transplant is the most beneficial. Tell the others three reasons why. Tell them why their transplants aren't as beneficial. Also, tell the others which is the least beneficial of these (and why): hair transplant, skin transplant or brain transplant.

Role B – Hair

You think hair transplant is the most beneficial. Tell the others three reasons why. Tell them why their transplants aren't as beneficial. Also, tell the others which is the least beneficial of these (and why): heart transplant, skin transplant or brain transplant.

Role C – Skin

You think a skin transplant is the most beneficial. Tell the others three reasons why. Tell them why their transplants aren't as beneficial. Also, tell the others which is the least beneficial of these (and why): hair transplant, heart transplant or brain transplant.

Role D – Brain

You think a brain transplant is the most beneficial. Tell the others three reasons why. Tell them why their transplants aren't as beneficial. Also, tell the others which is the least beneficial of these (and why): hair transplant, skin transplant or heart transplant.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

1. WORD SEARCH: Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'human' and 'monkey'.

human	monkey

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

2. ARTICLE QUESTIONS: Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

3. GAP FILL: In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

4. VOCABULARY: Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

5. TEST EACH OTHER: Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none">• rapidly• part• tissue• way• livers• year	<ul style="list-style-type: none">• 25• 132• 19• many• result• valve
---	---

CHIMERA SURVEY

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

Write five GOOD questions about chimera in the table. Do this in pairs. Each student must write the questions on his / her own paper. When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

CHIMERA DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'human'?
3. What do you think of science fiction?
4. What is in our world that looks like science fiction?
5. What do you think of scientists creating chimeras?
6. What examples are there of our world changing rapidly?
7. What are the dangers of creating chimeras?
8. What are the similarities between a chimera and Frankenstein?
9. What do you think of growing human organs in pigs?
10. Should there be limits as to what scientists can create?

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CHIMERA DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'monkey'?
13. What do you think about what you read?
14. What do you think of scientists modifying embryos?
15. Do you think this research belongs in the realm of horror movies?
16. What are the ethical concerns around this research?
17. What do you think of the risk of creating a new, half-human species?
18. Would you accept a transplant from an organ grown in a pig?
19. What three adjectives best describe this story?
20. What questions would you like to ask the scientists?

DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

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DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

LANGUAGE - CLOZE

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this (1) _____ changing world, we are seeing more examples of science fiction becoming science (2) _____. A team of American and Chinese scientists has created the world's first part-human, part-monkey embryo. This (3) _____ of genetic tissue is called a chimera. The scientists say it potentially (4) _____ the way for lifesaving medical advances. Bio-scientist Henry Greely explained the importance of this scientific breakthrough. He said: "The long-term goal of this research team is to grow human (5) _____ in pigs - kidneys, livers, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a transplant (6) _____ die every year waiting for a transplant."

The groundbreaking research involved (7) _____ 25 human cells into the embryos of long-tailed macaque monkeys. The (8) _____ cells developed inside 132 of the embryos. The scientists studied the development of the embryos for 19 days. Many people are disturbed (9) _____ the research and believe it belongs to the realm of horror movies. Professor Greely said he appreciated that there are many ethical concerns (10) _____ the creation and use of chimera. He said: "Every time a person gets an organ transplant, the result is an intra-species chimera - an organism made (11) _____ of cells from two members of the same species....When a human gets a pig heart (12) _____, she becomes an inter-species chimera."

Put the correct words from the table below in the above article.

- | | | | | |
|-----|-----------------|---------------|--------------|------------------|
| 1. | (a) rapidly | (b) rapid | (c) rapids | (d) rapidity |
| 2. | (a) factual | (b) in fact | (c) fact | (d) factoid |
| 3. | (a) fission | (b) vision | (c) fusion | (d) version |
| 4. | (a) concretes | (b) asphalts | (c) tiles | (d) paves |
| 5. | (a) mouthpieces | (b) pianos | (c) organs | (d) publications |
| 6. | (a) wrist | (b) list | (c) writs | (d) tryst |
| 7. | (a) injected | (b) injecting | (c) injector | (d) injects |
| 8. | (a) humanly | (b) human | (c) humane | (d) humanoid |
| 9. | (a) at | (b) of | (c) by | (d) to |
| 10. | (a) regard | (b) somehow | (c) of | (d) around |
| 11. | (a) along | (b) down | (c) round | (d) up |
| 12. | (a) viva | (b) evaluate | (c) value | (d) valve |

SPELLING

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

Paragraph 1

1. part-human, part-monkey bmyore
2. This fusion of tnecgie tissue
3. it atenyloitlp paves the way
4. the importance of this scientific htkgbearuroh
5. ksnyied, livers, hearts, etc.
6. waiting for a spnrnattal

Paragraph 2

7. raoggbiknrneu research
8. people are itedbsudr by the research
9. Professor Greely said he tadapcipere that
10. there are many htlecai concerns
11. two members of the same iecpess
12. When a human gets a pig heart velva

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

Number these lines in the correct order.

- () members of the same species....When a human gets a pig heart valve, she becomes an inter-species chimera."
- () studied the development of the embryos for 19 days. Many people are disturbed by the research and believe it
- () breakthrough. He said: "The long-term goal of this research team is to grow human organs in pigs - kidneys,
- () transplant, the result is an intra-species chimera - an organism made up of cells from two
- () The groundbreaking research involved injecting 25 human cells into the embryos of long-
- () tailed macaque monkeys. The human cells developed inside 132 of the embryos. The scientists
- () concerns around the creation and use of chimera. He said: "Every time a person gets an organ
- () monkey embryo. This fusion of genetic tissue is called a chimera. The scientists say it potentially paves
- () of thousands of people on a transplant list die every year waiting for a transplant."
- () belongs to the realm of horror movies. Professor Greely said he appreciated that there are many ethical
- () the way for lifesaving medical advances. Bio-scientist Henry Greely explained the importance of this scientific
- () livers, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens
- () fact. A team of American and Chinese scientists has created the world's first part-human, part-
- (**1**) In this rapidly changing world, we are seeing more examples of science fiction becoming science

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

1. science of becoming examples science fact . More fiction
2. is tissue a This called chimera . of fusion
3. paves advances . for the way medical It lifesaving
4. human They want make to organs for transplants .
5. for waiting every People die transplant . year a
6. The human 25 research groundbreaking cells . involved injecting
7. 132 developed the Human of inside embryos . cells
8. people disturbed are research . by the Many
9. are there He many that concerns . ethical appreciated
10. from Organisms the same of made cells species .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this *rapidly* / *rapid* changing world, we are seeing more examples of science fiction becoming science *factual* / *fact*. A team of American and Chinese scientists has created the world's first part-human, part-monkey embryo. This *fission* / *fusion* of genetic tissue is called a chimera. The scientists say it *potent* / *potentially* paves the way for lifesaving medical *advances* / *forwards*. Bio-scientist Henry Greely explained the importance of / *at* this scientific breakthrough. He said: "The long-term goal *off* / *of* this research team is to grow human organs in pigs - kidneys, livers, hearts, etc." He added: "They want to do *what* / *that* to make more human organs for transplants. Tens of thousands of people *on* / *in* a transplant list die every year *waiting* / *wanting* for a transplant."

The groundbreaking research *incited* / *involved* injecting 25 human cells into the embryos of long-tailed macaque monkeys. The *human* / *humane* cells developed inside 132 of the embryos. The scientists *studiously* / *studied* the development of the embryos for 19 days. Many people are disturbed *of* / *by* the research and believe it belongs *at* / *to* the realm of horror movies. Professor Greely said he appreciated that there are many *ethic* / *ethical* concerns around the creation and *use* / *used* of chimera. He said: "Every time a person *gets* / *getting* an organ transplant, the result is an intra-species chimera - an organism made *down* / *up* of cells from two members of the same species....When a human gets a pig heart *value* / *valve*, she becomes an inter-species chimera."

Talk about the connection between each pair of words in italics, and why the correct word is correct.

INSERT THE VOWELS (a, e, i, o, u)

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this rapidly changing world, we're seeing more examples of scientific fiction becoming scientific fact. The team of American and Chinese scientists has created the world's first part-human, part-monkey embryo. This fusion of genetic tissues is called a chimera. The scientists say it potentially paves the way for lifesaving medical advances. BBC scientist Henry Grady explained the experiment of this scientific breakthrough. He said: "The long-term goal of this research team is to grow human organs on pigs - kidneys, livers, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a transplant list don't very year waiting for a transplant."

The groundbreaking research involved injecting 25 human cells into the embryos of long-tailed macaque monkeys. The human cells developed into 132 of the embryos. The scientists studied the development of the embryos for 19 days. Many people are disturbed by the research and believe that brings to the realm of horror movies. Professor Grady said he predicted that there are many ethical concerns around the creation and use of a chimera. He said: "Very often people get an organ transplant, the result is an inter-specific chimera - an organ-specific chimera. When a human gets a pig heart valve, she becomes an inter-specific chimera."

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

in this rapidly changing world we are seeing more examples of science fiction becoming science fact a team of american and chinese scientists has created the worlds first parthuman partmonkey embryo this fusion of genetic tissue is called a chimera the scientists say it potentially paves the way for lifesaving medical advances bioscientist henry greely explained the importance of this scientific breakthrough he said the longterm goal of this research team is to grow human organs in pigs kidneys livers hearts etc he added they want to do that to make more human organs for transplants tens of thousands of people on a transplant list die every year waiting for a transplant

the groundbreaking research involved injecting 25 human cells into the embryos of longtailed macaque monkeys the human cells developed inside 132 of the embryos the scientists studied the development of the embryos for 19 days many people are disturbed by the research and believe it belongs to the realm of horror movies professor greely said he appreciated that there are many ethical concerns around the creation and use of chimera he said every time a person gets an organ transplant the result is an intraspecies chimera an organism made up of cells from two members of the same species when a human gets a pig heart valve she becomes an interspecies chimera

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2104/210420-chimera.html>

In this rapidly changing world, we are seeing more examples of science fiction becoming science fact. A team of American and Chinese scientists has created the world's first part-human, part-monkey embryo. This fusion of genetic tissue is called a chimera. The scientists say it potentially paves the way for life-saving medical advances. Bio-scientist Henry Greely explained the importance of this scientific breakthrough. He said: "The long-term goal of this research team is to grow human organs in pigs - kidneys, livers, hearts, etc." He added: "They want to do that to make more human organs for transplants. Tens of thousands of people on a transplant list die every year waiting for a transplant." The groundbreaking research involved injecting 25 human cells into the embryos of long-tailed macaque monkeys. The human cells developed inside 132 of the embryos. The scientists studied the development of the embryos for 19 days. Many people are disturbed by the research and believe it belongs to the realm of horror movies. Professor Greely said he appreciated that there are many ethical concerns around the creation and use of chimera. He said: "Every time a person gets an organ transplant, the result is an intra-species chimera - a norganism made up of cells from two members of the same species.... When a human gets a pig heart valve, she becomes an inter-species chimera."

HOMEWORK

1. VOCABULARY EXTENSION: Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

2. INTERNET: Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

3. CHIMERA: Make a poster about chimera. Show your work to your classmates in the next lesson. Did you all have similar things?

4. INTRA-SPECIES: Write a magazine article about chimera and banning intra-species experiments. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

5. WHAT HAPPENED NEXT? Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

6. LETTER: Write a letter to an expert on chimera. Ask him/her three questions about chimera. Give him/her three of your ideas. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

1. c 2. e 3. f 4. a 5. b 6. g 7. d
8. i 9. j 10. m 11. l 12. k 13. n 14. h

TRUE / FALSE (p.5)

- a F b T c T d F e F f F g F h T

SYNONYM MATCH (p.5)

1. h	2. e	3. b	4. c	5. a
6. j	7. f	8. g	9. d	10. i

COMPREHENSION QUESTIONS (p.9)

1. Science fact
2. Genetic tissue
3. Bio-scientist
4. In pigs
5. Tens of thousands
6. Human cells
7. 19 days
8. The realm of horror movies
9. An intra-species chimera
10. An inter-species chimera

WORDS IN THE RIGHT ORDER (p.19)

1. More examples of science fiction becoming science fact.
2. This fusion of tissue is called a chimera.
3. It paves the way for lifesaving medical advances.
4. They want to make human organs for transplants.
5. People die every year waiting for a transplant.
6. The groundbreaking research involved injecting 25 human cells.
7. Human cells developed inside 132 of the embryos.
8. Many people are disturbed by the research.
9. He appreciated that there are many ethical concerns.
10. Organisms made of cells from the same species.

MULTIPLE CHOICE - QUIZ (p.10)

1. b 2. d 3. a 4. c 5. b 6. a 7. c 8. a 9. a 10. d

ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.
(It's good for your English ;-)