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Level 6 – 23rd March, 2021

Scientists say cure for baldness could be close

FREE online quizzes, mp3 listening and more for this lesson here:

<https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

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

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THE ARTICLE

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Help may soon be at hand for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that are vital in the hair regeneration process. This is promising news for the millions of people worldwide who suffer from baldness. A cure has eluded scientists for decades, despite extensive research and significant investment in research. The scientists are now embarking on clinical research and laboratory trials. They hope to adapt the stem cells to finally create a therapy for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some degree of hair loss. By the age of 50, up to 85 per cent will experience significantly thinning hair.

The scientists took fur cells from mice and cultured them in the lab. They observed that hair growth was a cyclical process within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the hair regrow naturally. Lead scientist Takashi Tsuji said: "Our culture system establishes a method for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a reality in the near future." He added: "Losing hair is not life-threatening, but it adversely affects the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy works. He said: "Having a full head of hair again will make me look ten years younger".

Sources: <https://www.japantimes.co.jp/news/2021/02/14/national/hair-loss-researchers/>
<https://bgr.com/2021/02/13/baldness-cure-stem-cell-hair-growth-riken-study/>
<https://interestingengineering.com/a-cure-for-baldness-may-lie-in-engineering-stem-cells-that-regenerate>

WARM-UPS

1. BALDNESS: Students walk around the class and talk to other students about baldness. 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?

help / losing hair / scientists / stem cells / research / laboratory / baldness / men / fur / cyclical / follicle / combinations / therapy / life-threatening / quality of life

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

3. UNNECESSARY: Students A **strongly** believe hair is unnecessary; Students B **strongly** believe it is necessary. Change partners again and talk about your conversations.

4. LOSS: How bad is it to lose these things? What can we do about it? Complete this table with your partner(s). Change partners often and share what you wrote.

	How Bad?	What We Can Do
Hair loss		
Teeth loss		
Memory loss		
Loss of bladder control		
Loss of appetite		
Hearing loss		

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

6. HAIR PRODUCTS: Rank these with your partner. Put the most important at the top. Change partners often and share your rankings.

- hair dryer
- hair spray
- hair grip
- hair dye
- hair band
- hair
- shampoo
- hair net

VOCABULARY MATCHING

Paragraph 1

- | | |
|------------------|--|
| 1. at hand | a. Absolutely necessary or important; essential. |
| 2. vital | b. Showing signs of future success. |
| 3. regeneration | c. Mainly; for the most part. |
| 4. promising | d. The action or process of making something grow again. |
| 5. cure | e. Failed to be attained by someone. |
| 6. eluded | f. Here; available now. |
| 7. predominantly | g. A substance or treatment that makes a disease or condition go away. |

Paragraph 2

- | | |
|----------------------|--|
| 8. fur | h. Of tissue cells, bacteria, etc. grown or propagated in an artificial way. |
| 9. cultured | i. Happening again and again. |
| 10. cyclical | j. In a way that prevents success or development; harmfully or unfavorably. |
| 11. combination | k. The base of a hair under the skin in which the hair grows. |
| 12. follicle | l. A mixture of different things. |
| 13. life-threatening | m. The short, fine, soft hair of certain animals. |
| 14. adversely | n. A great danger to the existence of someone. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

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

- a. The article says hair on people's hands could be put on heads. **T / F**
- b. The article says scientists have promised millions of bald people. **T / F**
- c. The article says scientists have not found a cure for centuries. **T / F**
- d. Up to 85% of men will have thinned hair before they are 50. **T / F**
- e. Scientists experimented on the fur of mice. **T / F**
- f. A scientist wants to make a hair loss therapy in the far future. **T / F**
- g. A scientist said hair loss is not life-threatening. **T / F**
- h. A banker wants hair so he can look 10 years younger. **T / F**

2. SYNONYM MATCH:

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

- | | |
|------------------------|--------------------|
| 1. at hand | a. mixes |
| 2. vital | b. starting |
| 3. eluded | c. level |
| 4. embarking on | d. essential |
| 5. degree | e. actuality |
| 6. observed | f. about to happen |
| 7. combinations | g. treatment |
| 8. therapy | h. negatively |
| 9. reality | i. evaded |
| 10. adversely | j. noticed |

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

- | | |
|-------------------------------|-------------------------|
| 1. Help may soon | a. affects men |
| 2. discovered stem cells that | b. on clinical research |
| 3. embarking | c. hair |
| 4. Baldness predominantly | d. head of hair |
| 5. significantly thinning | e. process |
| 6. The scientists took fur | f. be at hand |
| 7. hair growth was a cyclical | g. threatening |
| 8. a reality in the near | h. cells from mice |
| 9. Losing hair is not life- | i. are vital |
| 10. Having a full | j. future |

GAP FILL

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Help may soon be at (1) _____ for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that are (2) _____ in the hair regeneration process. This is promising news for the millions of people worldwide who (3) _____ from baldness. A cure has (4) _____ scientists for decades, despite extensive research and significant investment in research. The scientists are now (5) _____ on clinical research and laboratory trials. They hope to adapt the stem cells to finally create a (6) _____ for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some (7) _____ of hair loss. By the age of 50, up to 85 per cent will experience significantly (8) _____ hair.

vital
embarking
thinning
hand
degree
eluded
therapy
suffer

The scientists took (9) _____ cells from mice and cultured them in the lab. They observed that hair growth was a (10) _____ process within the follicle. They analysed the stem cells and used 220 (11) _____ of chemicals to make the hair regrow (12) _____. Lead scientist Takashi Tsuji said: "Our culture system establishes a method for cyclical regeneration of hair (13) _____ from hair follicle stem cells and will help make hair follicle regeneration therapy a (14) _____ in the near future." He added: "Losing hair is not life-threatening, but it (15) _____ affects the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy works. He said: "Having a (16) _____ head of hair again will make me look ten years younger".

adversely
combinations
follicles
fur
reality
cyclical
full
naturally

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

- 1) Help may soon be at hand for those who are losing or have _____
 - a. lose their hairy
 - b. lost their hairy
 - c. lost their hair
 - d. lose their hair
- 2) A team of Japanese scientists has discovered stem cells _____
 - a. that are pivotal
 - b. that are viral
 - c. that are vital
 - d. that are veto
- 3) people worldwide who suffer from baldness. A cure _____
 - a. has eluded scientists
 - b. has elude did scientists
 - c. has elude scientists
 - d. has eludes scientists
- 4) The scientists are now embarking on clinical research _____
 - a. and laboratory trials
 - b. and laboratory trails
 - c. and laboratory tries
 - d. and laboratory thrills
- 5) By the age of 50, up to 85 per cent will experience significantly _____
 - a. thin in hair
 - b. thinning hair
 - c. thin non hair
 - d. thin on hair
- 6) They observed that hair growth was a cyclical process _____
 - a. within the folly call
 - b. within the foal I call
 - c. within the follower
 - d. within the follicle
- 7) They analysed the stem cells and used 220 _____
 - a. combination of chemicals
 - b. combinations of chemicals
 - c. combinations of chemical
 - d. combination of chemical
- 8) Tsuji said: "Our culture system establishes a method _____
 - a. for cycle call regeneration
 - b. for sick lick all regeneration
 - c. for sickly call regeneration
 - d. for cyclical regeneration
- 9) He added: "Losing hair is not life-threatening, but it adversely _____
 - a. affects the qualify
 - b. affects the quantify
 - c. affects the caller tea
 - d. affects the quality
- 10) bank worker, hopes the therapy works. He said: "Having a full _____...
 - a. head off hair
 - b. head oft hair
 - c. head over hair
 - d. head of hair

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Help may soon (1) _____ for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that (2) _____ the hair regeneration process. This is promising news for the millions of people worldwide who suffer from baldness. A cure has eluded scientists (3) _____ extensive research and significant investment in research. The scientists are now embarking on clinical research (4) _____. They hope to adapt the stem cells to finally create a therapy for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience (5) _____ hair loss. By the age of 50, up to 85 per cent will experience (6) _____.

The scientists took (7) _____ mice and cultured them in the lab. They observed that hair growth was (8) _____ within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the (9) _____. Lead scientist Takashi Tsuji said: "Our culture system establishes a method for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration (10) _____ in the near future." He added: "Losing hair is not life-threatening, but (11) _____ the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy works. He said: "Having a (12) _____ hair again will make me look ten years younger".

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

1. What nationality are the scientists who conducted this research?
2. What did scientists find that is vital for the hair regeneration process?
3. For how long does the article say a cure has evaded scientists?
4. What do scientists hope to find a therapy for?
5. What percentage of men experience hair thinning by the age of 50?
6. What animal's fur did scientists test?
7. How many combinations of chemicals did scientists use to regrow hair?
8. What did a scientist say hair loss is not?
9. What did a scientist say hair loss adversely affects?
10. How much younger did a banker say he wants to look?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

- 1) What nationality are the scientists who conducted this research?
 - a) Peruvian
 - b) American
 - c) Egyptian
 - d) Japanese
- 2) What did scientists find that is vital for the hair regeneration process?
 - a) hair wax
 - b) stem cells
 - c) a hair brush
 - d) proteins
- 3) For how long does the article say a cure has evaded scientists?
 - a) years
 - b) centuries
 - c) decades
 - d) eons
- 4) What do scientists hope to find a therapy for?
 - a) hair loss
 - b) greasy skin
 - c) depression
 - d) bad hair days
- 5) What percentage of men experience hair thinning by the age of 50?
 - a) 25%
 - b) 65%
 - c) 85%
 - d) 30%
- 6) What animal's fur did scientists test?
 - a) bears
 - b) mice
 - c) orangutans
 - d) sheep
- 7) How many combinations of chemicals did scientists use to regrow hair?
 - a) 200
 - b) 230
 - c) 210
 - d) 220
- 8) What did a scientist say hair loss is not?
 - a) life-threatening
 - b) worrying
 - c) a bad thing
 - d) a sign of ageing
- 9) What did a scientist say hair loss adversely affects?
 - a) self-confidence
 - b) the scalp
 - c) the quality of life
 - d) the shampoo industry
- 10) How much younger did a banker say he wants to look?
 - a) 15 years
 - b) 10 years
 - c) 20 years
 - d) 25 years

ROLE PLAY

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Role A – Hair Dryer

You think a hair dryer is the most important hair product. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): shampoo, hair dye or hair spray.

Role B – Shampoo

You think shampoo is the most important hair product. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): a hair dryer, hair dye or hair spray.

Role C – Hair Dye

You think hair dye is the most important hair product. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): shampoo, a hair dryer or hair spray.

Role D – Hair Spray

You think hair spray is the most important hair product. Tell the others three reasons why. Tell them what is wrong with their things. Also, tell the others which is the least important of these (and why): shampoo, hair dye or a hair dryer.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

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

baldness	cure

- 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">• hand• vital• news• despite• now• age	<ul style="list-style-type: none">• fur• 220• method• reality• quality• ten
---	--

BALDNESS SURVEY

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Write five GOOD questions about baldness 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.

BALDNESS 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 'baldness'?
3. What do you think of baldness?
4. Why do we need hair?
5. What are the advantages of being bald?
6. What do you think of your hair?
7. How would you feel about being bald?
8. What do you think of bald people?
9. How important is a cure for baldness?
10. What advice do you have for people who are going bald?

Scientists say cure for baldness could be close – 23rd March, 2021
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BALDNESS 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 'cure'?
13. What do you think about what you read?
14. What do you do to look after your hair?
15. What can people do if they are going bald?
16. What do you know about the process of hair growth?
17. How might going bald affect people's mental health?
18. What do you think of bald women?
19. How attractive is it to be bald?
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/2103/210323-baldness-cure.html>

Help may soon be at (1) _____ for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that are (2) _____ in the hair regeneration process. This is (3) _____ news for the millions of people worldwide who suffer from baldness. A cure has eluded scientists for decades, despite extensive research and significant investment in research. The scientists are now embarking (4) _____ clinical research and laboratory trials. They hope to (5) _____ the stem cells to finally create a therapy for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some degree of hair loss. By the age of 50, up to 85 per cent will experience significantly (6) _____ hair.

The scientists took (7) _____ cells from mice and cultured them in the lab. They observed that hair growth was a (8) _____ process within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the hair regrow naturally. Lead scientist Takashi Tsuji said: "Our (9) _____ system establishes a method for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a (10) _____ in the near future." He added: "Losing hair is not life-threatening, but it (11) _____ affects the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy works. He said: "Having a full (12) _____ of hair again will make me look ten years younger".

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

- | | | | | |
|-----|-----------------|----------------|------------------|-----------------|
| 1. | (a) head | (b) hand | (c) heart | (d) hamstring |
| 2. | (a) viral | (b) vital | (c) fetal | (d) vocal |
| 3. | (a) vowing | (b) avowing | (c) pledging | (d) promising |
| 4. | (a) at | (b) on | (c) of | (d) as |
| 5. | (a) adept | (b) adopt | (c) adroit | (d) depot |
| 6. | (a) wiping | (b) slimming | (c) thinning | (d) dieting |
| 7. | (a) for | (b) fir | (c) fur | (d) far |
| 8. | (a) cycling | (b) cycled | (c) cyclical | (d) cylindrical |
| 9. | (a) tradition | (b) heritage | (c) customs | (d) culture |
| 10. | (a) reality | (b) fantasy | (c) here and now | (d) possible |
| 11. | (a) adversely | (b) conversely | (c) verses | (d) versing |
| 12. | (a) hippocampus | (b) skull | (c) head | (d) brain |

SPELLING

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Paragraph 1

1. stem cells that are vaitl
2. A cure has delude scientists
3. despite xetnivese research
4. mkbaengir on clinical research
5. Baldness mditrplnonaye affects men
6. tsinnyciaafgl thinning hair

Paragraph 2

7. ultecurd them in the lab
8. hair growth was a acyclcil process
9. hair oillfecl
10. irteaoeegrnn therapy
11. Losing hair is not life-rteagnenthi
12. it salevdrey affects the quality of life

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Number these lines in the correct order.

- () follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a
- () research and laboratory trials. They hope to adapt the stem cells to finally create a therapy for hair
- (**1**) Help may soon be at hand for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem
- () affects the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy
- () The scientists took fur cells from mice and cultured them in the lab. They observed that hair growth was a cyclical
- () cells that are vital in the hair regeneration process. This is promising news for the millions of people
- () works. He said: "Having a full head of hair again will make me look ten years younger".
- () naturally. Lead scientist Takashi Tsuji said: "Our culture system establishes a method for cyclical regeneration of hair
- () process within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the hair regrow
- () loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some
- () degree of hair loss. By the age of 50, up to 85 per cent will experience significantly thinning hair.
- () worldwide who suffer from baldness. A cure has eluded scientists for decades, despite extensive
- () research and significant investment in research. The scientists are now embarking on clinical
- () reality in the near future." He added: "Losing hair is not life-threatening, but it adversely

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

1. who lost losing or have Those are hair .
2. of news millions This promising people . for is
3. clinical are The now on research . embarking scientists
4. stem cells finally to the therapies . create Adapt
5. hair experience Men some of degree loss . will
6. scientists took from mice . cells The fur
7. the chemicals regrow . to of hair Combinations make
8. follicles . for A regeneration of cyclical hair method
9. of loss quality Hair the life . adversely affects
10. look make hair me will years More younger .

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Help may soon be at *heart / hand* for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that are *rival / vital* in the hair regeneration process. This is promising news for the millions of people worldwide who suffer *of / from* baldness. A cure has *exuded / eluded* scientists for decades, *despite / spite* extensive research and significant investment *in / on* research. The scientists are now *barking / embarking* on clinical research and laboratory trials. They hope to adapt the stem cells to finally create a *therapeutic / therapy* for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some *degree / temperature* of hair loss. By the age of 50, up to 85 per cent will experience significantly *growing / thinning* hair.

The scientists took *fur / furry* cells from mice and cultured them in the lab. They observed that hair growth was a cyclical *progress / process* within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the hair regrow *naturally / natural*. Lead scientist Takashi Tsuji said: "Our *culture / tradition* system establishes a *method / methodological* for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a *realism / reality* in the *near / nearly* future." He added: "Losing hair is not life-threatening, but it *conversely / adversely* affects the quality of life." Sam Baker, a 52-year-old bank worker, *hoping / hopes* the therapy works. He said: "Having a full head of hair again will make me look ten years *younger / youth*".

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/2103/210323-baldness-cure.html>

H_lp m_y s__n b_ _t h_nd f_r th_s_ wh_ _r_ l_s_ng
_r h_v_ l_st th__r h__r. _ t__m _f J_p_n_s_
sc__nt_sts h_s d_sc_v_r_d st_m c_lls th_t _r_ v_t_l _n
th_ h__r r_g_n_r_t__n pr_c_ss. Th_s _s pr_m_s_ng
n_ws f_r th_ m_ll__ns _f p__pl_ w_rldw_d_ wh_ s_ff_r
fr_m b_ldn_ss. _ c_r_ h_s _l_d_d sc__nt_sts f_r
d_c_d_s, d_sp_t_ _xt_ns_v_ r_s__rch _nd s_gn_f_c_nt
_nv_stm_nt _n r_s__rch. Th_ sc__nt_sts _r_ n_w
_mb_rk_ng _n cl_n_c_l r_s__rch _nd l_b_r_t_ry tr__ls.
Th_y h_p_ t_ _d_pt th_ st_m c_lls t_ f_n_lly cr__t_ _
th_r_py f_r h__r l_ss. B_ldn_ss pr_d_m_n_ntly _ff_cts
m_n. By th_ _g_ _f 35, _r__nd tw_-th_rds _f m_n
w_ll _xp_r__nc_ s_m_ d_gr__ _f h__r l_ss. By th_ _g_
_f 50, _p_ t_ 85 p_r_ c_nt w_ll _xp_r__nc_
s_gn_f_c_ntly th_nn_ng h__r.

Th_ sc__nt_sts t__k f_r c_lls fr_m m_c_ _nd c_lt_r_d
th_m _n th_ l_b. Th_y _bs_rv_d th_t h__r gr_wth w_s
_ cycl_c_l pr_c_ss w_th_n th_ f_ll_cl_. Th_y _n_lys_d
th_ st_m c_lls _nd _s_d 220 c_mb_n_t__ns _f
ch_m_c_ls t_ m_k_ th_ h__r r_gr_w n_t_r_lly. L__d
sc__nt_st T_k_sh_ Ts_j_ s__d: "_r_ c_lt_r_ syst_m
_st_b_lsh_s _ m_th_d f_r cycl_c_l r_g_n_r_t__n _f h__r
f_ll_cl_s fr_m h__r f_ll_cl_ st_m c_lls _nd w_ll h_lp
m_k_ h__r f_ll_cl_ r_g_n_r_t__n th_r_py _ r__l_ty _n
th_ n__r f_t_r_." H_ _dd_d: "L_s_ng h__r _s n_t l_f_
thr__t_n_ng, b_t _t _dv_r_s_ly _ff_cts th_ q__l_ty _f
l_f_." S_m B_k_r, _ 52-y__r-ld b_nk w_rk_r, h_p_s
th_ th_r_py w_rks. H_ s__d: "H_v_ng _ f_ll h__d _f
h__r _g__n w_ll m_k_ m_ l__k t_n y__rs y__ng_r".

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

help may soon be at hand for those who are losing or have lost their hair a team of japanese scientists has discovered stem cells that are vital in the hair regeneration process this is promising news for the millions of people worldwide who suffer from baldness a cure has eluded scientists for decades despite extensive research and significant investment in research the scientists are now embarking on clinical research and laboratory trials they hope to adapt the stem cells to finally create a therapy for hair loss baldness predominantly affects men by the age of 35 around twothirds of men will experience some degree of hair loss by the age of 50 up to 85 per cent will experience significantly thinning hair

the scientists took fur cells from mice and cultured them in the lab they observed that hair growth was a cyclical process within the follicle they analysed the stem cells and used 220 combinations of chemicals to make the hair regrow naturally lead scientist takashi tsuji said our culture system establishes a method for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a reality in the near future he added losing hair is not lifethreatening but it adversely affects the quality of life sam baker a 52yearold bank worker hopes the therapy works he said having a full head of hair again will make me look ten years younger

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2103/210323-baldness-cure.html>

Help may soon be at hand for those who are losing or have lost their hair. A team of Japanese scientists has discovered stem cells that are vital in the hair regeneration process. This is promising news for the millions of people worldwide who suffer from baldness. A cure has eluded scientists for decades, despite extensive research and significant investment in research. The scientists are now embarking on clinical research and laboratory trials. They hope to adapt the stem cells to finally create a therapy for hair loss. Baldness predominantly affects men. By the age of 35, around two-thirds of men will experience some degree of hair loss. By the age of 50, up to 85 percent will experience significantly thinning hair. The scientists took fur cells from mice and cultured them in the lab. They observed that hair growth was a cyclical process within the follicle. They analysed the stem cells and used 220 combinations of chemicals to make the hair regrow naturally. Lead scientist Takashi Tsuji said: "Our culture system establishes a method for cyclical regeneration of hair follicles from hair follicle stem cells and will help make hair follicle regeneration therapy a reality in the near future." He added: "Losing hair is not life-threatening, but it adversely affects the quality of life." Sam Baker, a 52-year-old bank worker, hopes the therapy works. He said: "Having a full head of hair again will make me look ten years younger".

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

4. NO HAIR: Write a magazine article about life being more convenient if none of us had hair. 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 baldness. Ask him/her three questions about it. Give him/her three of your opinions on it. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

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

SYNONYM MATCH (p.5)

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

COMPREHENSION QUESTIONS (p.9)

1. Japanese
2. Stem cells
3. Decades
4. Hair loss / baldness
5. 85%
6. Mice
7. 220
8. Life-threatening
9. The quality of life
10. 10 years

WORDS IN THE RIGHT ORDER (p.19)

1. Those who are losing or have lost hair.
2. This is promising news for millions of people.
3. The scientists are now embarking on clinical research.
4. Adapt the stem cells to finally create therapies.
5. Men will experience some degree of hair loss.
6. The scientists took fur cells from mice.
7. Combinations of chemicals to make the hair regrow.
8. A method for cyclical regeneration of hair follicles.
9. Hair loss adversely affects the quality of life.
10. More hair will make me look years younger.

MULTIPLE CHOICE - QUIZ (p.10)

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

ALL OTHER EXERCISES

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