## **OLIMPIADA Z JĘZYKA ANGIELSKIEGO 2019**

differences among classes of prebiotics.

Kod
Wynik/ 58
<u>USE OF ENGLISH</u>
EXERCISE 5. Read the text below and circle the most suitable option (A, B, C or D) to fill in the gaps.
Gut bacteria, prebiotics and the link between helping stress, anxiety and depression
The (1) that bacteria living in your gut can affect your brain may seem odd. Yet a (2) of research indicates that intestinal bacteria are intimately entwined with the function of our bodies – and our brains. Scientists at Oxford University recently made an important (3) in this field with a study demonstrating that consumption of prebiotics affects both emotional processing and stress hormone levels in healthy volunteers.
There are two ways to manipulate the microbes in the gut (collectively, the microbiome): by consuming live cultures of bacteria called probiotics; or by (4) certain types of sugar molecules, known as prebiotics, that (5) growth of these bacteria. While previous research has established that probiotics can alter human brain function, similar effects of prebiotics have until now only been found in animals. The Oxford study is the first to show prebiotic effects on human behaviour.
The researchers were particularly interested in whether the prebiotics would affect emotion and stress, as much of the data on the microbiome-brain connection (6) the role gut bacteria play in stress-related disorders like anxiety and depression. Patients with these disorders may experience digestive as well as psychological symptoms, and studies indicate that the number and type of bacteria in the gut influence anxiety levels. Probiotics appear to lower anxiety in humans, so the Oxford team (7) out to investigate whether prebiotics do the same.
To do so, they recruited healthy volunteers to take one of two types of prebiotic, or a placebo, each morning for three weeks. At the end of this period, the volunteers (8) a series of tasks designed to test emotional processing. One of these tasks turned up a positive result: volunteers who took a prebiotic called B-GOS paid less attention to negative words, and more attention to positive ones, than those taking placebo. Volunteers taking B-GOS also had lower levels of the stress hormone cortisol in their saliva after three weeks on the prebiotic than they had at the beginning of the experiment.
Interestingly, the second prebiotic tested, FOS, affected neither emotional processing nor cortisol levels. This difference is in (9) with previous work showing that B-GOS more strongly stimulates the growth of intestinal microbes than does FOS. As these findings highlight, research on the microbiome

The effect of B-GOS on the attention task is similar to results found when healthy volunteers were given anti-anxiety or anti-depressant medication and asked to perform the task. The way attention is caught by emotionally charged stimuli (like the positive and negative words used in the test) is thought to be a key feature of anxiety disorders and depression.

must (10) \_\_\_\_\_ account not just of the distinction between probiotics and prebiotics but also of

If attention too easily latches onto negative or threatening thoughts, or if it stays stuck on those thoughts for too long, this may contribute to anxious or depressive symptoms. The finding that prebiotics shift attention from the negative towards the positive thus suggests that they might have therapeutic uses.

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As the study's senior author Dr. Philip Burnet notes, (11), prebiotics and probiotics are likely to be administered as adjunct therapies alongside current pharmacological and psychological treatments rather than on their own.						
Prebiotic effects on cortisol are (12) a close relationship present in the gut in early life responds to stress in adulthood study are evidence of the microtherole stress plays in psychia therapies for anxiety or depress	p with the microbiome.  affect the development.  The (13) effect obiome's continued inflatoric disorders, further so	In fact, animal studies of the stress system are of prebiotics on cortisol uence over the stress res	indicate that the bacteria and shape how the animal levels seen in the Oxford sponse system and, given			
The (14) between stress as well as of the brain. Stress is disease, and colitis. The questidata on probiotics and prebiotic	thought to play a role in on of how the microbes	disorders like irritable l fit into this picture is a	powel syndrome, Crohn's			
Mounting evidence thus indicates that manipulations of the microbiome affect both the brain and the body. The influence of probiotics on brain function has been demonstrated, and this latest research from Oxford has now opened the door for investigation of prebiotic effects. The study of the microbiome-brain connection will likely (15) in coming years given its potential to contribute to treatment of stress-related diseases.						
(1) A) belief	B) notion	C) opinion	D) knowledge			
(2) A) great number	B) lots of	C) good deal	D) few			
(3) A) invention	B) finding)	C) advance	D) development			
(4) A) swallowing	B) tasting	C) ingesting	D) absorbing			
(5) A) care	B) cultivate	C) contribute	D) nurture			
(6) A) covers	B) concerns	C) affects	D) applies			
(7) A) gave	B) set	C) took	D) put			
(8) A) completed	B) concluded	C) achieved	D) answered			
(9) A) regard	B) line	C) similarity	D) respect			
(10) A) give	B) have	C) take	D) make			
(11) A) despite	B) still	C) although	D) however			
(12) A) owns	B) shares	C) holds	D) enjoys			
(13) A) dampening	B) lowering	C) decreasing	D) reducing			
(14) A) association	B) link	C) tie	D) bond			

B) intensify

C) rise

(15) A) boost

D) strengthen

## **EXERCISE 6.** Complete each gap with ONE word only.

## Children should not be allowed smartphones in bed or at mealtimes, say experts.

		ame Sally Davies, is ca		parents to
		es and tablets does not		
		nd education. The office		
on measures parents s or during mealtimes.	should 3)	, including not le	tting children use th	neir devices in bed
The new recommend	ations follow a review	by the Commons scien	nce and technology	select committee,
which assessed evide	ence 4)	the impact screen-	time has on childre	en's mental health
	review found that heav risk for depressive sys	y use of social media w mptoms.	as associated with a	two-fold increase
depressive symptoms corresponding figures	s, compared with 18.1 s for teenage boys were	e hours a day on soci % of those who spent e 14.5% and 6.8%.	three hours or less	on the sites. The
recommendations abo	out the daily limits for	screen time. However, dren to no more than tw	the CMO guideline	es advise taking a
on smartphones and s		aren to no more than th		u time
- · · · · · · · · · · · · · · · · · · ·		vise that children take e also recommends bein	_	
and ensuring that the	ey get enough sleep. S	he is also requesting d ne "normalization" of b	igital technology co	ompanies to make
	nat parents talk to their e lookout for changes	r children about the co	ntent they are view	ring and to be 10)
EXERCISE 7. Com	plete the sentences wi	th the correct form of	the word given in	capital letters.
1. Hyperplasia (FORM)	or hypoplasia are th	ne most common tooth		
2. I have been	sent a notice that m	y dental appointmen	t was	
(SCHEDULE		, II		
3. His knee had	been	repaired in	n 2018, but as it was	s only a temporary
fix the surgeo	on decided to have a f	full replacement . (SUR	GEON)	
4. Why has the	patient's condition		. recently? (WORS	SE)
5. The patholo	ogist wanted to r	nake sure that the	patient didn't	die due to
	so he	ordered a repeat test. (	DIAGNOSE)	

when the baby is still in the womb. (UTERUS)  7. Plastic surgery malpractice may result in serious medical problems including damage to a endings, numbness, and in rare cases face	the orised lation
endings, numbness, and in rare cases face	the orised lation
9. In autoimmune diseases all treatments target symptoms and not causes of the disease. ( LIE)  10. In the States, a/an is a person who runs a drugstore and is author in to fill prescriptions. (DRUGSTORE)  11. therapies, also called natural healing, are based on manipul or movement of one or more body parts. (MANIPULATE)  12. Swelling can be by applying an ice pack. (EASY)  13. There is ongoing research for of allergy with nanotechnology (NEUTRAL)  14. In medical articles correct and thorough data should always (PREVALENCE)  15. The lab tests allow to assess before they develop (NORMAL)  16. Temporaries solve the problem. (MOMENT)  17. Haemorrhage is an escape of blood from the vein of (CONTROL)  18. Burs and scalpels are (AUTOCLAVE).  19. He has been suffering from to tonsils for over a month.	orised lation
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18. Burs and scalpels are(AUTOCLAVE).19. He has been suffering fromtonsils for over a month.	n arcory.
19. He has been suffering from tonsils for over a month.	
· ·	
20. Failed X-Ray machine can have results on the human's	s body
(DISASTER)	oody.
(DIS/ISTER)	
XERCISE 8	
ewrite the sentences so that the meaning stays the same – use between 3 to 8 words, including	g the
ord given:	8 ****
What gave you the impression that the patient was under the influence? <b>LED</b>	
That was	atient
as under the influence?	
	GHT
	spirits
the baby's moveme	Piiiis

3. This Amer	ican geneticist and bio	physicist played a cru	icial role in the d	liscovery of the	e molecular
structure of DN	NA, the substance that is	s the basis of heredity.	INSTRUME	NTAL	
This	American	geneticist	and	ŀ	biophysicist
				discovering the	molecular
structure of DN	NA, the substance that is	s the basis of heredity.			
4 Your overall	health would be greatl	y improved by regular	exercise <b>WO</b>	NDERS	
	se would				vour
overall health.					
5. If the baby	had been vaccinated a	according to the reco	mmended schedu	ile, the girl be	alive now.
INOCULATE		Ç			
Had				all the majo	r childhood
diseases, she w	ould be alive now.				
6. The movie "	Vaxxed" was so contro	versial that it was bann	ned in most Europ	ean countries.	CAUSED
Such was .				1	the movie
"Vaxxed" that i	it was banned in most E	uropean countries.			
7. The consulta	ant said that he had paid	d attention to patient's	s complaints and	would take the	appropriate
action. NOTE	E				
The	consultant	said	that	he	had
			ao	ecordingly.	
	reaction in a lab caused	•			
				in the lal	b yesterday.
9. It was my fir	est major operation. (	<b>)PERATED</b>			
	vernment grants, many		-		OR
				many scientist	ts would be
unable to do an					
•	t let you smoke anywhe	-	BE	•	
				anywher	e near a
hospital.	1.1 1	Y 14 1 4 4	1	D 11 1	C
	neard the Minister of F	dealth day that reproc	ductive rights of	Polish women	were of no
concern to him					
	of Health				•••••
_	ghts of Polish women d			<b>d</b> r	
13. 1 prefer hav	ving a tooth extraction to	o a rectai examination.		hava my raatum	a avaminad