



AI Solves Superbug Challenge in Just 48 Hours

Description

Tom Gerken

Technology Reporter

A new artificial intelligence (AI) tool has solved a big problem in just two days. Professor José R Penadés and his team at Imperial College London studied why some superbugs are immune to antibiotics for many years.

He used an AI tool called "co-scientist" made by Google. He asked it a simple question about his research. The AI found the answer in just 48 hours. Professor Penadés was amazed because his research was not published and was private. He thought Google had access to his computer, but they said they did not.

The AI not only found the right answer but also gave other ideas that helped the researchers. The team has been trying to understand how superbugs form.

They believe these germs can share parts with viruses to spread between different species. Professor Penadés thinks this AI tool will change science for the better. He feels excited about the future and believes this is a powerful new tool for researchers.

Vocabulary List:

1. **Artificial** /,ɑːr.tɪ'fɪ.əl/ (adjective): Made or produced by human beings rather than occurring naturally.
2. **Superbugs** /'suː.pər.bʌgz/ (noun): Bacteria that have become resistant to antibiotic treatment.
3. **Immune** /ɪ'mjuːn/ (adjective): Protected against a particular disease or infection.
4. **Research** /'riː.sɜːrtʃ/ (noun): The systematic investigation into and study of materials and sources to establish facts and reach new conclusions.
5. **Germs** /dʒɜːrmz/ (noun): Microorganisms especially those that can cause disease.
6. **Powerful** /'paʊə.fəl/ (adjective): Having great power or strength; very effective.

Comprehension Questions

Multiple Choice

1. Who is the Technology Reporter mentioned in the text?



- Option: Tom Gerken
- Option: Professor José R Penadés
- Option: Ratan Naval Tata
- Option: Google

2. Where is Professor José R Penadés and his team based?

- Option: Imperial College London
- Option: Harvard University
- Option: Stanford University
- Option: Oxford University

3. What AI tool did Professor José R Penadés use for the research?

- Option: Co-scientist
- Option: Alexa
- Option: Siri
- Option: Cortana

4. How long did it take the AI to find the answer to the simple question posed by Professor José R Penadés?

- Option: 48 hours
- Option: 1 week
- Option: 1 month
- Option: 6 hours

5. What does Professor Penadés believe the AI tool will do for science?

- Option: Change it for the better
- Option: Have no impact
- Option: Make research slower
- Option: Decrease innovation

6. What does the team believe superbugs can do to spread between different species?

- Option: Share parts with viruses
- Option: Disappear
- Option: Breed faster
- Option: Become weaker

True-False

7. The AI tool used by Professor José R Penadés was called "co-scientist".



8. Professor José R Penadés believed Google had accessed his private research.
9. The AI tool only found the right answer without providing any additional ideas.
10. Superbugs have been a focus of study for many years by the team.
11. Professor José R Penadés thinks the AI tool will hinder scientific progress.
12. The team believes that superbugs can only spread within the same species.

Gap-Fill

13. Professor José R Penadés and his team studied why some superbugs are immune to antibiotics for many years at _____ College London.
14. The AI found the answer in just _____ hours.
15. Professor José R Penadés believed the AI tool will change science for the better because he felt _____ about the future.
16. The team has been trying to understand how superbugs _____.
17. According to Professor Penadés, superbugs can share parts with viruses to spread between different _____.
18. Professor Penadés believes this AI tool will be a powerful new tool for _____.

Answer

Multiple Choice: 1. Tom Gerken 2. Imperial College London 3. Co-scientist 4. 48 hours 5. Change it for the better 6. Share parts with viruses

True-False: 7. True 8. False 9. False 10. True 11. False 12. False

Gap-Fill: 13. Imperial 14. 48 15. excited 16. form 17. species 18. researchers

CATEGORY

1. Sci/Tech - LEVEL1

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