

Surprising Cannabis Compound Found in Unrelated Plant!

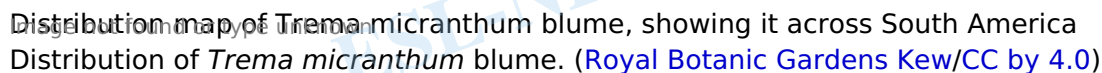
Description

Recent investigations have unveiled the presence of cannabidiol (CBD), a compound traditionally affiliated with cannabis, in the ubiquitous Brazilian plant known scientifically as [Trema micrantha blume](#). This remarkable discovery paves the way for innovative pathways to sustainably produce this increasingly sought-after substance.

The research team, led by molecular biologist Rodrigo Moura Neto from the Federal University of Rio de Janeiro, disclosed that CBD was identified within the fruits and blossoms of this shrub, which proliferates throughout Brazil and is frequently dismissed as a mere weed. According to Neto, this revelation could transform CBD production given the plant's widespread availability across the South American landscape.

Notably, CBD has garnered attention for its therapeutic potential in alleviating conditions such as epilepsy, chronic pain, and anxiety. It is one of the primary bioactive compounds found in cannabis, alongside tetrahydrocannabinol (THC), the psychoactive component responsible for the characteristic high associated with cannabis consumption.

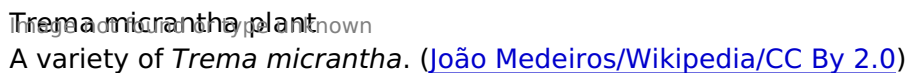
Despite its promise, comprehensive research into the medicinal efficacy of CBD remains ongoing.


Distribution of *Trema micranthum* blume. ([Royal Botanic Gardens Kew/CC by 4.0](#))

Interestingly, chemical analyses confirmed that while *Trema* contains CBD, it is devoid of THC, thus presenting a potentially abundant and legally unencumbered source of cannabidiol—especially significant in jurisdictions where cannabis remains prohibited, such as Brazil.

Neto remarked, "This plant represents a lawful alternative to conventional cannabis." Its omnipresence in Brazil suggests a simpler and more cost-effective means of sourcing CBD.

Previously, CBD had been identified in a related species found in Thailand, emphasizing the compound's broader botanical context.


A variety of *Trema micrantha*. ([João Medeiros/Wikipedia/CC By 2.0](#))

Moving forward, Neto aims to escalate his inquiry to establish optimal extraction techniques for CBD from *Trema* and evaluate its therapeutic efficacy in conditions typically treated with medical cannabis.

This endeavor is bolstered by a substantial grant of 500,000 reais (approximately US\$104,000) awarded by the Brazilian government, with expectations for completion spanning at least five years.

Market analysis from Vantage Market Research indicates that the global CBD sector is poised to expand from nearly US\$5 billion to over US\$47 billion by 2028, primarily fueled by the burgeoning health and wellness industry.



Vocabulary List:

1. **Cannabidiol** /,kæ.nə.'bɪd.i.ɔɪl/ (noun): A compound found in cannabis known for its potential therapeutic effects.
2. **Innovative** /'ɪn.ə'veɪ.tɪv/ (adjective): Featuring new methods; advanced and original.
3. **Proliferates** /prə'lɪf.ə'reɪts/ (verb): To increase rapidly in numbers; multiply.
4. **Therapeutic** /,θer.ə'pjʊ:tɪk/ (adjective): Relating to the healing of disease.
5. **Efficacy** /'ɛf.i.kə.si/ (noun): The ability to produce a desired or intended result.
6. **Jurisdictions** /,dʒʊr.ɪs'dɪk.jənz/ (noun): The official power to make legal decisions and judgments.

Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. Which trait refers to the ability to adjust to new conditions?

- Option: Cannabidiol
- Option: Adaptability
- Option: Therapeutic
- Option: Innovative

2. What is the term for explaining or clarifying a concept?

- Option: Nuanced
- Option: Elucidate
- Option: Imperceptible
- Option: Jurisdictions

3. Which type of psychology focuses on observable behaviors?

- Option: Behavioural
- Option: Infiltrate
- Option: Context-sensitive
- Option: Kinematic

4. Changes resulting in profound shifts are known as:

- Option: Engender
- Option: Transformations
- Option: Cognitive
- Option: Luminosity

5. Which word means to increase rapidly in numbers?



- Option: Conundrum
- Option: Proliferates
- Option: Corroborate
- Option: Serendipitous

6. What term relates to processes involving perception and reasoning?

- Option: Equilibrium
- Option: Cognitive
- Option: Cannabidiol
- Option: Diligent

7. Which word describes the atmosphere or mood of a place?

- Option: Ambience
- Option: Culminated
- Option: Antigenic
- Option: Phenotype

8. What is the term used to describe areas or domains of authority?

- Option: Therapeutic
- Option: Efficacy
- Option: Jurisdictions
- Option: Assumptions

9. Something that is extremely difficult to detect is said to be:

- Option: Imperceptible
- Option: Kinematic
- Option: Diligent
- Option: Antigenic

10. What term describes the introduction of new ideas or methods?

- Option: Innovative
- Option: Nuanced
- Option: Conundrum
- Option: Elucidated

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)

11. Many scientific theories are based on _____ that serve as starting points for research.



12. The concept of supply and demand is often used to explain market _____.
13. _____ equations describe motion without considering the forces causing it.
14. The discovery of penicillin was a _____ result of Alexander Fleming's accidental observations.
15. The professor _____ the complex theory in a way that all students could understand.
16. Solving this philosophical _____ requires deep contemplation and critical thinking.
17. Scientists seek to _____ their findings through repeated experiments and data analysis.
18. The _____ of the stars in the night sky depends on their size and temperature.
19. Months of hard work and preparation _____ in a spectacular performance.
20. Success in any field often requires a _____ work ethic and focus.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. The effectiveness of the teaching method depended on considering the unique circumstances of each student.
22. To foster a sense of unity and collaboration among team members the leader worked diligently to promote mutual respect.
23. The calming music had a soothing and healing effect on the patients aiding in their recovery process.
24. The drug's ability to produce the desired results was tested rigorously by the research team before it was approved for use.
25. The spy managed to penetrate the enemy's defenses and gather crucial information without being detected.
26. The artist's painting depicted subtle variations in color and shading showcasing the complexity of the subject.



27. The cozy cafe had a warm and inviting atmosphere making it a favorite spot for locals to relax and socialize.

28. The company's groundbreaking technology revolutionized the industry setting new standards for efficiency and creativity.

29. The study focused on the potential health benefits of the natural compound found in cannabis plants.

30. The observable traits of an organism influenced by both genetic and environmental factors make up its distinct characteristics.

Answer

Multiple Choice: 1. Adaptability 2. Elucidate 3. Behavioural 4. Transformations 5. Proliferates 6. Cognitive 7. Ambience 8. Jurisdictions 9. Imperceptible 10. Innovative

Gap-Fill: 11. Assumptions 12. Equilibrium 13. Kinematic 14. Serendipitous 15. Elucidated 16. Conundrum 17. Corroborate 18. Luminosity 19. Culminated 20. Diligent

Matching sentence: 1. Context-sensitive 2. Engender 3. Therapeutic 4. Efficacy 5. Infiltrate 6. Nuanced 7. Ambience 8. Innovative 9. Cannabidiol 10. Phenotype

CATEGORY

1. Health - LEVEL6

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Author

aimeeyoung99