



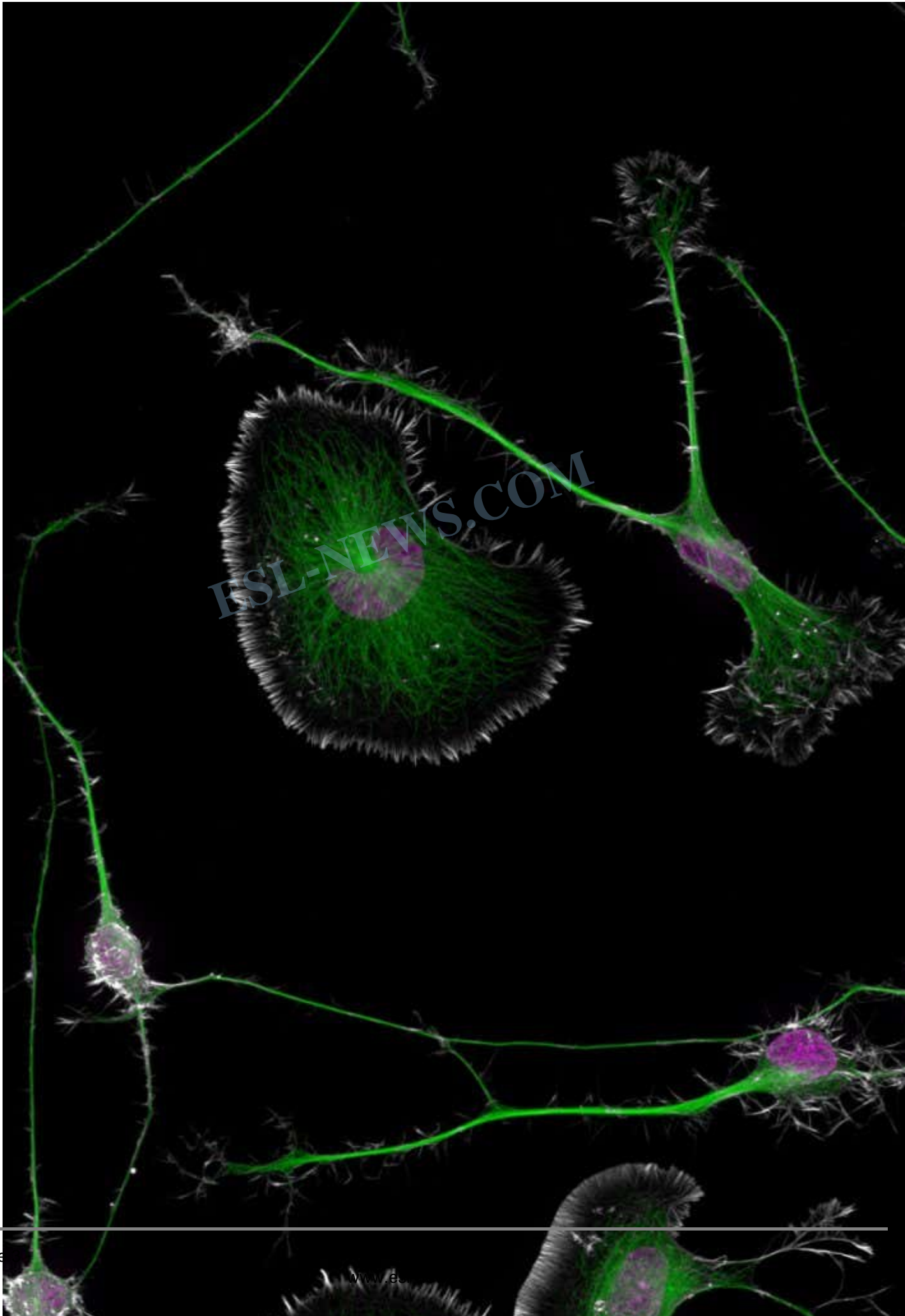
## Marvels of Microscopy: Captivating Close-ups of Tiny Worlds

### Description

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Tumour cells in a mouse's brain

Bruno Cisterna/Nikon Small World

A remarkable image capturing a delicate network of tumour cells inside a mouse's brain has been crowned the winner of the prestigious Nikon Small World photography competition. The photograph, taken by [Bruno Cisterna Irrazabal](#) at Augusta University in Georgia, showcases tightly packed strands of actin protein surrounding green microtubules and a violet nucleus. Cisterna is investigating how the breakdown of these structures could impact the development of neurodegenerative diseases like Alzheimer's.

Another striking entry captures maroon fruiting bodies of slime moulds by [Henri Koskinen](#) at the University of Helsinki. The image reveals a delicate net of thick threads enclosing a clump of spores from the species *Cribraria cancellata*.

Photographer Gerhard Vlcek's vibrant cross-section of European beachgrass showcases turquoise vascular bundles alongside orange tissue, highlighting the plant's water and food transportation systems.

Additional captivating images include miniature scales from a Ulysses butterfly's wings, the eight eyes of a green crab spider, translucent water fleas at different reproductive stages, and expressive vascular bundles in a bracken fern stem.

Each photograph offers a unique glimpse into the intricate and fascinating world of microscopy, highlighting the beauty and complexity of the natural world at a microscopic level.

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## Vocabulary List:

1. **Tumour** /'tju:.mə/ (noun): An abnormal mass of tissue that forms when cells divide uncontrollably.
2. **Neurodegenerative** /,njʊə.rəʊ.dɪ'dʒɛn.ə.rə.tɪv/ (adjective): Relating to the degeneration of nervous tissue or cells.
3. **Vascular** /'væs.kjʊ.lər/ (adjective): Relating to the vessels that carry fluids such as blood or sap in plants and animals.
4. **Microscopy** /maɪ'krɒs.kə.pi/ (noun): The use of a microscope to view small objects that are invisible to the naked eye.
5. **Fruiting** /'fru:.tɪŋ/ (verb): The act of producing fruit or spores typically in plants or fungi.
6. **Translucent** /træn'slu:.sənt/ (adjective): Allowing light to pass through but not detailed shapes.

## Vocabulary quizzes

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



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1. What is the primary purpose of an analgesic?
    - Option: To alleviate pain
    - Option: To induce sleep
    - Option: To increase heart rate
    - Option: To reduce blood pressure
  
  2. What can lead to frustration when imposed on individuals?
    - Option: Freedom
    - Option: Restrictions
    - Option: Opportunities
    - Option: Empathy
  
  3. Which medical condition involves abnormal cell growth?
    - Option: Diabetes
    - Option: Arthritis
    - Option: Tumour
    - Option: Asthma
  
  4. Which term is related to blood vessels?
    - Option: Vascular
    - Option: Digestive
    - Option: Muscular
    - Option: Skeletal
  
  5. Which scientific technique involves studying objects using a microscope?
    - Option: Microscopy
    - Option: Photography
    - Option: Astronomy
    - Option: Geology
  
  6. What is a demand for the release of a captive in exchange for money called?
    - Option: Bargain
    - Option: Ransom
    - Option: Gift
    - Option: Donation
  
  7. Which term describes obtaining something through coercion?
    - Option: Negotiation
    - Option: Extortion
    - Option: Compromise
    - Option: Agreement

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8. What does proximity refer to?

- Option: Distance
- Option: Time
- Option: Weight
- Option: Volume

9. What does the term "allure" mean?

- Option: Repel
- Option: Attract
- Option: Shine
- Option: Disappear

10. What does "dwindling" indicate?

- Option: Increasing
- Option: Decreasing
- Option: Stable
- Option: Growing

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

11. An \_\_\_\_\_ is a medication that helps \_\_\_\_\_ pain.

12. Cell \_\_\_\_\_ is essential for the communication and coordination of various cellular activities.

13. \_\_\_\_\_ arises when obstacles prevent the accomplishment of goals or fulfillment of needs.

14. Navigating through the \_\_\_\_\_ of modern life can be challenging.

15. The spy managed to \_\_\_\_\_ the enemy camp without being detected.

16. The undercover agent went on a secret \_\_\_\_\_ to gather intelligence.

17. Security guards need to stay \_\_\_\_\_ to prevent any breaches.

18. The company reached the \_\_\_\_\_ of success with its latest product launch.



19. The famous singer is known by the \_\_\_\_\_ "Queen of Pop."

20. The \_\_\_\_\_ of the disease has increased over the past decade.

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

21. Patients may experience _____ after undergoing anesthesia.
22. The _____ care is crucial for the recovery of surgical patients.
23. There are _____ legal for violating traffic rules.
24. _____ Strict govern the handling of hazardous materials.
25. _____ Drug can lead to unexpected side effects.
26. The process of growing fruit on trees is known as _____.
27. The _____ glass allowed light to pass through but blurred the view.
28. The spy managed to _____ sensitive information from the enemy base.
29. The beauty of the landscape held a _____ mysterious _____.
30. The _____ of international diplomacy require skilled negotiators.

**Answer**

**Multiple Choice:** 1. To alleviate pain 2. Restrictions 3. Tumour 4. Vascular 5. Microscopy 6. Ransom 7. Extortion 8. Distance 9. Attract 10. Decreasing

**Gap-Fill:** 11. analgesic, alleviate 12. signaling 13. Frustration 14. complexities 15. infiltrate 16. operative 17. vigilant 18. apogee 19. moniker 20. incidence

**Matching sentence:** 1. Disorientation 2. Postoperative 3. Penalties 4. Regulations 5. Interactions 6. Fruiting 7. Translucent 8. Exfiltrate 9. Allure 10. Complexities

**CATEGORY**

- 1. Sci/Tech - LEVEL5

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