

# The Cell - Episode 1: The Hidden Kingdom

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1. Why did Leeuwenhoek have an advantage over other scientists studying small items?
2. What was his “most marvelous” discovery?
3. Who wrote “Micrographia” and why was it important?
4. How did the Royal Society confirm Leeuwenhoek’s discovery?
5. What did the narrator describe as tadpoles? What did Leeuwenhoek predict was within the “heads” of these little tadpoles?
6. What is spontaneous generation?  
give examples:  
Why is scientific methodology important?
7. What was discovered in Brown’s orchids?  
Brown is unique position in science history, why?
8. How did Lister improve the microscope?
9. Why did early scientists believe that plants were fundamentally different than animals?  
What did Schwann discover?
10. What was the Schwann and Schleiden “Eureka” moment?  
What was wrong about their theory?
12. What did Pasteur set out to do?  
How did his experiment differ from the other experiments that were conducted at the time?
13. What was Remak’s contribution to science from observing cells extracted from eggs and frogspawn?
14. Why isn’t Remak credited with this discovery in your textbook?
15. This entire presentation was themed around the history of the cell and the development of the Cell Theory. Summarize each milestone and discovery.

