'Through the Lens' Discovery Movie Notes

- 1. Every few hours cells <u>1 V I C E</u>.
- Before the invention of the <u>m i C C O S C O P C</u>, 300 years ago, no one knew cells existed.
- In 1665, Robert
 <u>O</u>
 <u>C</u>
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- In 1833 one of the leading botanists, Robert <u>B</u> <u>C</u> <u>U</u> <u>N</u>, discovered every cell contained a dense blob called a <u>n</u> <u>U</u> <u>C</u> <u>e</u> <u>U</u> <u>S</u>.
- 5. When scientists observed material moving inside cells, it led them to the conclusion that cells are <u><u>a</u> <u>l</u> <u>i</u> <u>V</u> <u>C</u>.</u>
- 7. An <u>a mo</u> <u>e</u> <u>b</u> <u>a</u> is one of the simplest living creatures. The single cell is able to make its own <u>c</u> <u>a</u> <u>b</u> <u>d</u>, to <u>a</u> <u>c</u> <u>w</u>, and to reproduce all on its own.
- The cell <u>m e m b r e n c</u> acts like a barrier, allowing material to enter and exit the cell.
- 9. The $\underline{\cap} \ \underline{\cup} \ \underline{C} \ \underline{\sqcup} \ \underline{\bigcirc} \ \underline{\cup} \ \underline{S}$ is the control center of the cell.
- 10. $\underline{C} \times \underline{L} \circ \underline{p} \perp \underline{a} \times \underline{S} \overset{\text{m}}{\underline{m}}$ is the jelly-like substance inside the cell membrane. It is here that all the chemical $\underline{\Gamma} \circ \underline{a} \times \underline{C} + \underline{i} \circ \underline{n} \times \underline{S}$, which keeps the cell alive, take place.
- 11. Human cells come in all $\underline{S} \underline{D} \underline{a} \underline{D} \underline{C} \underline{S}$ and $\underline{S} \underline{L} \underline{Z} \underline{C} \underline{S}$.
- 12. Plant cells have a <u>0</u> <u>____</u> like shape.
- 13. Like animal cells, plant cells have a <u>n U C I C U S</u> and cell <u>m c m b r a h C</u>.
- 14. Unlike animal cells, plant cells have a cell <u>10 a b</u>, made of cellulose, and chloroplasts.
- 15. Plants are able to capture the <u>S_V_n'</u> <u>S_</u> energy and convert it into <u>- O_O_</u>.
- 16. A chemical reaction with sunlight converts <u>Water</u> and carbon <u>dio XID</u> <u>c</u> into sugars.
- 18. Roots normally grow deep <u>U n d 2 r g r D U n d</u>.