

5 Characteristics of Living Organisms

- Cells basic unit of life
- Replication
- Evolution organisms are the product of evolution
- Information organisms process heredity info encoded in genes. They also respond to info from environment and adjust to maintain internal conditions.
- Energy organisms have to acquire and use energy to survive and reproduce

Louis Pasteur

Performed experiment that supported cell theory.

Two flasks- both with nutrient rich broth that was boiled (pasteurized) where one was in a swan neck flask and one in a flask with open end. The flask with the swan neck trapped preexisting cells from the air from entering the flask whereas the open ended flask allowed cells from the air to enter. The swan neck flask never grew any cells and the open flask grew many. The spontaneous generation hypothesis predicted that both flasks would produce cells and cell theory predicted that only the flask that had pre-existing cells from the air would produce more cells. Cell theory was theorized..

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By **mkann01**
cheatography.com/mkann01/

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