

EARTH AND LIFE SCIENCE

Life

What Qualifies Something as Living?

1. **Movement** – most animals move. Movement from one place to another is no diagnostic of life. The criterion of movement is neither necessary nor sufficient.
2. **Sensitivity** – almost all living things respond to stimuli. Plants grow toward light, and animals retreat from fire. Not all stimuli produce responses.
3. **Death** – all living things die, while inanimate do not. Unless one can detect life, death is a meaningless concept.
4. **Complexity**

Earth is much older than life.

Earth - 4.5 billion years old.

Oldest Fossil - 3.5 billion years old. "Based on radioactive decay studies of rocks.

It took the Earth nearly 1 billion years to cool enough for the first life form to appear.

THEORIES ON THE ORIGIN OF LIFE

1. **Extraterrestrial Origin** – life originated on another planet outside our Solar System. Life was then **carried on Earth on a meteorite or an asteroid** and colonized Earth. "Not proven.

2. **Panspermia** – GK, "seeds everywhere" a.k.a. Cosmozoic Theory. The "seed" of life exists all over the universe and can be propagated through space.

- Contains **extremophile organisms** or organisms that survive in extreme conditions that survive in extreme conditions, life then had to come to earth in the **form of resistant spores**.
- Proposed by **Richter in 1865** and **supported by Arrhenius**
- Life had to come to earth from other planets of the universe in the form of **resistant spores**
- British astronomers **Fred Hoyle** and **Chandra Wickramasinghe** proposed that:
 - > interstellar dusts contain organic compounds.
 - > comets, which are largely made of water (ice), carry bacterial life across galaxies and protect it from radiations damage along the way.
 - > the 2005 impact mission to Comet Tempel 1 discovered a mixture of organic and clay particles inside a comet

2005 DEEP IMPACT MISSION

- Deep impact was a NASA space probe launched from Cape Canaveral Air Force Station at 18:47 UTC on January 12, 2005
- It was **designed to study the interior composition of the comet tempel 1 (9P/Tempel)**, by releasing an impactor in the comet.
- At 05:02 UTC on **July 4, 2005**, the **impactor successfully collided with the comet's nucleus**.

Variations of Panspermia Theory

1. **Lithopanspermia (interstellar panspermia)** - impact-expelled rocks from a planet's surface serve as transfer vehicles for spreading biological material **from one solar system to another**
2. **Ballistic Panspermia (interplanetary panspermia)** - impact-expelled rocks from a planet's surface serve as transfer vehicles for spreading biological material **from one planet to another** within the same solar system (*planet to planet*)
3. **Directed Panspermia** - intentional spreading of seeds of life to other planets be an **advanced extraterrestrial civilization** or the intentional **spreading of the seeds of life from Earth to other planets by humans**. *There is a chance that humans at some point in our space explorations, may intentionally transport microorganisms on manned craft or unmanned probes to other planetary bodies.*

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