



## Panspermia

The theory of panspermia, which posits that **life could travel between planets**, has been the subject of speculation and scientific inquiry for centuries.

- Panspermia, first proposed by the **Greek philosopher Anaxagoras**, suggests that **life has the potential to travel as 'seeds' between planets**.
- Scientific advances have demonstrated that microorganisms can endure the extreme conditions of **interplanetary travel and survive the impact** of reaching a new world.
  - 19<sup>th</sup>-century researchers, including **Svante Arrhenius**, suggested mechanisms, such as **radiation pressure from the Sun**, that could propel microorganisms through space.
- Modern panspermia theory involves three stages: **escape from a planet, transit through interplanetary space, and landing on another planet**.
- Panspermia, doesn't explain the origin of life itself and is considered a fringe theory due to the difficulty of proving its validity.

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