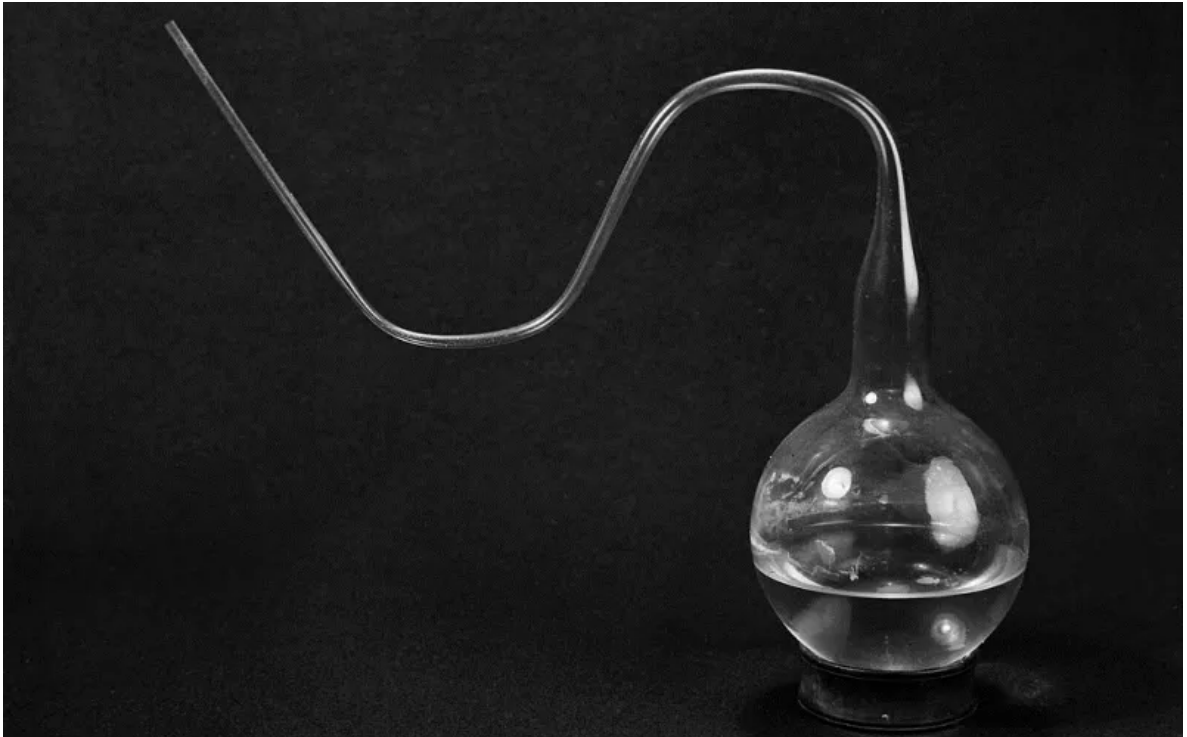


The Origin of Life

Earlier Ideas

Spontaneous Generation

- Living things could come from non-living things
- Francesco Redi designed an experiment to test this
 - Two jars: one without a lid and one with
 - Both had food inside (theorized to be able to spontaneously generate)
 - The one without a lid had flies coming out of the food, and the one with the lid did not
- Louis Pasteur designed an experiment to test this on microorganisms as well
 - Two jars, both with a bend in the neck



- The jars had a broth inside and were boiled to kill all the microorganisms inside
- The bend in the neck collected condensation and sealed the broth off from outside
- One jar had the neck broken so that fresh air could enter

- The jar with the broken neck's broth turned cloudy after some time, while the other did not

Broken Neck	Sealed Neck
Fresh air could reach the broth	Broth was sealed from the outside world
Started out sterile after being boiled	Started out sterile after being boiled
Microorganisms grew in the broth	Broth remained sterile and no microorganisms were found inside

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