

BIOLOGICAL HERO

Deinococcus Radiodurans



<https://bit.ly/3rpFdsU>

It is an extremophilic bacterium. This creature is one of the most resistant creatures known to radiation. Bacteria can withstand extreme cold, dehydration, vacuum and harsh conditions such as acid, so it is shown among polyextremophiles. D. radiodurans can withstand an applied 5,000 Gy of ionizing radiation without any vital problems. As these numbers increase, their vital activities decrease. D. Radiodurans can withstand high radiations due to its multiple copies in its genome and a fast-acting DNA repair mechanism.

Tardigrade



<https://bit.ly/3RuvDiU>

Colloquially known as water bears or kelp piglets. Habitats They are found in various parts of the world such as mountain tops, deep seas, tropical rainforests. Tardigrades are among the most resilient creatures known. They can withstand extreme leaks, extreme pressures and high conditions such as radiation. Tardigrades are the first known animals to survive exposure to space.

What we need for our hero

Animals such as the one above can be further explored or developed, taking their important characteristics and integrating them into some living things. It can help us with the important work we will do in space.