



1

00:00:00,266 --> 00:00:06,848

A NASA spacecraft will go beyond the Moon to help protect astronauts from space radiation

2

00:00:07,273 --> 00:00:10,176

Meet BioSentinel

3

00:00:13,818 --> 00:00:18,856

The harsh radiation environment of space poses health hazards to astronauts

4

00:00:19,753 --> 00:00:25,247

Exposure to high-energy particles can damage DNA and cells in the body

5

00:00:25,692 --> 00:00:28,661

BioSentinel has an onboard laboratory

6

00:00:30,000 --> 00:00:34,650

to conduct the first long-duration biology experiment in deep space

7

00:00:35,268 --> 00:00:38,238

It will study the effects of radiation on yeast

8

00:00:39,472 --> 00:00:44,444

The microorganism shares many similarities with human cells

9

00:00:45,412 --> 00:00:48,980

including the process for DNA damage and repair