



SCIENCE LAUNCHING

ON SPACEX'S 25TH CARGO RESUPPLY
MISSION TO THE SPACE STATION

USVM

1
00:00:00,166 --> 00:00:03,269
WHY ARE WE SENDING
IMMUNE CELLS

2
00:00:03,269 --> 00:00:05,638
AN IMAGING
SPECTROMETER

3
00:00:05,638 --> 00:00:08,908
AND LIVING TISSUE
TO SPACE?

4
00:00:09,709 --> 00:00:15,548
DOZENS OF NEW EXPERIMENTS WILL SOON
ARRIVE AT THE INTERNATIONAL SPACE STATION

5
00:00:15,548 --> 00:00:20,920
FOR THE BENEFIT OF HUMANITY AND
FUTURE MISSIONS TO SPACE

6
00:00:20,920 --> 00:00:26,893
LET'S TAKE A LOOK AT WHAT'S ON BOARD
THE 25TH SPACEX CARGO MISSION

7
00:00:26,893 --> 00:00:29,062
Earth Surface Mineral Dust
Source Investigation (EMIT)

8
00:00:29,062 --> 00:00:34,100
EMIT will assess the heating and cooling effects
of mineral dust in the Earth's atmosphere

9
00:00:34,100 --> 00:00:39,739
and measure mineral composition
of Earth's dust source regions.

10
00:00:39,739 --> 00:00:42,008
Biopolymer Research for
In-Situ Capabilities

11
00:00:42,008 --> 00:00:46,112
Students will test a novel
process for building

12
00:00:46,112 --> 00:00:51,818
structures in space and on
Earth using local resources.

13
00:00:51,818 --> 00:00:53,887
DynaMoS

14
00:00:53,887 --> 00:00:58,491
Researchers will compare the interactions of a
group of soil microorganisms on station and on Earth.

15
00:00:58,491 --> 00:01:03,963
Findings could influence the design
of future life-support systems.

16
00:01:03,963 --> 00:01:06,299
BeaverCube

17
00:01:06,299 --> 00:01:11,037
This CubeSat will use cameras to take
color images of Earth's oceans

18
00:01:11,037 --> 00:01:15,975
and detect the temperature of
cloud tops and the ocean surface.

19
00:01:15,975 --> 00:01:17,944
Immunosenescence

20
00:01:17,944 --> 00:01:23,116
Scientists will study immune cells in
microgravity to uncover new methods to treat

21
00:01:23,116 --> 00:01:28,054
immune system aging

and protect astronauts.

22

00:01:28,054 --> 00:01:30,190

Genes in Space-9

23

00:01:30,190 --> 00:01:35,028

A student DNA experiment will seek to
validate the use of biosensors

24

00:01:35,028 --> 00:01:40,366

as a simple tool for medical diagnostics
and environmental monitoring.

25

00:01:41,434 --> 00:01:45,371

THESE EXPERIMENTS WILL JOIN THE
HUNDREDS OF ONGOING INVESTIGATIONS

26

00:01:45,371 --> 00:01:48,842

ABOARD THE
ORBITING LABORATORY.