



@Astro_Alaeyadi

Space to Ground

1
00:00:05,650 --> 00:00:02,790
foreign

2
00:00:08,810 --> 00:00:05,660
[Music]

3
00:00:10,669 --> 00:00:08,820
I'm Jane Jennings this week is all about

4
00:00:11,750 --> 00:00:10,679
science aboard the International Space

5
00:00:14,570 --> 00:00:11,760
Station

6
00:00:16,910 --> 00:00:14,580
the Expedition 68 crew worked hard last

7
00:00:19,130 --> 00:00:16,920
weekend to unpack a special delivery of

8
00:00:21,609 --> 00:00:19,140
science supplies and even some fresh

9
00:00:24,590 --> 00:00:21,619
treats that arrived aboard the SpaceX

10
00:00:26,450 --> 00:00:24,600
crs-27 Dragon the astronauts aboard the

11
00:00:28,429 --> 00:00:26,460
orbiting laboratory jumped right into

12
00:00:30,650 --> 00:00:28,439
some of the biological experiments this

13
00:00:33,350 --> 00:00:30,660

week including monoclonal antibodies

14

00:00:35,750 --> 00:00:33,360

pcg2 for patients requiring

15

00:00:38,389 --> 00:00:35,760

time-consuming IV infusions like people

16

00:00:40,010 --> 00:00:38,399

with cancer alternative delivery methods

17

00:00:41,990 --> 00:00:40,020

for medications can mean the difference

18

00:00:44,389 --> 00:00:42,000

between traveling to a clinic for

19

00:00:47,150 --> 00:00:44,399

lengthy treatments or going to their

20

00:00:49,729 --> 00:00:47,160

local doctor for a quick injection this

21

00:00:52,130 --> 00:00:49,739

study crystallizes Biotherapeutics in

22

00:00:54,350 --> 00:00:52,140

microgravity and analyzes the process

23

00:00:56,569 --> 00:00:54,360

development including cost evaluation

24

00:00:59,209 --> 00:00:56,579

and efficiency the microgravity

25

00:01:01,250 --> 00:00:59,219

environment of the ISS provides ideal

26

00:01:03,650 --> 00:01:01,260

conditions for growing high quality

27

00:01:05,810 --> 00:01:03,660

crystals finding methods to crystallize

28

00:01:07,730 --> 00:01:05,820

complex Biotherapeutics in a space

29

00:01:10,190 --> 00:01:07,740

environment May significantly reduce

30

00:01:12,850 --> 00:01:10,200

production costs improve product quality

31

00:01:15,469 --> 00:01:12,860

and enhance overall patient experience

32

00:01:17,630 --> 00:01:15,479

also this week NASA astronaut Woody

33

00:01:19,850 --> 00:01:17,640

hoberg installed the Tom popo 5 hardware

34

00:01:22,249 --> 00:01:19,860

and some samples onto the slide table in

35

00:01:24,530 --> 00:01:22,259

the gym airlock this jaxa investigation

36

00:01:26,690 --> 00:01:24,540

studies the origin transportation and

37

00:01:29,090 --> 00:01:26,700

survival of life in space and on

38

00:01:31,490 --> 00:01:29,100

extraterrestrial planets such as Mars

39

00:01:33,530 --> 00:01:31,500

Tom popo 5 follows four earlier

40

00:01:35,749 --> 00:01:33,540

experiments seeking insight into how

41

00:01:37,670 --> 00:01:35,759

organisms respond to space exposure

42

00:01:39,830 --> 00:01:37,680

these investigations could inform

43

00:01:41,929 --> 00:01:39,840

strategies to protect other planets from

44

00:01:43,609 --> 00:01:41,939

contamination by humans and for

45

00:01:44,929 --> 00:01:43,619

returning samples from other planets

46

00:01:46,789 --> 00:01:44,939

safely to Earth

47

00:01:49,190 --> 00:01:46,799

results Also may help support

48

00:01:50,870 --> 00:01:49,200

agricultural activities and planetary

49

00:01:53,870 --> 00:01:50,880

quarantine strategies for human

50

00:01:55,490 --> 00:01:53,880

activities on the moon and Mars

51
00:01:57,109 --> 00:01:55,500
that's it for space to ground this week

52
00:01:59,810 --> 00:01:57,119
you can keep up with all of the

53
00:02:01,429 --> 00:01:59,820
happening on station by following at ISS

54
00:02:04,429 --> 00:02:01,439
Research on Twitter for space station

55
00:02:06,649 --> 00:02:04,439
science and at space underscore station

56
00:02:07,680 --> 00:02:06,659
for daily crew updates we'll see you

57
00:02:13,910 --> 00:02:07,690
next time

58
00:02:14,800 --> 00:02:13,920
[Music]

59
00:02:22,970 --> 00:02:14,810
thank you