station this is Houston are you ready

for the event so special I'm okay

euronews this is Mission Control Houston

please call station for a voice check

station this is Isabel kumar from urine

user can you hear me good morning Isabel

I hear you loud and clear how do you

hear me I hear you very well this is

great so I think we'll start in a few

seconds from now just to tell you about

the format the interview itself will be

10 minutes long then we have some extra

questions after in the talk interview

we have video questions that we received
from our viewers which will come in three different languages but I will paraphrase those straight after that.

okay it is great sounds like it might be fun can you hear me or can you see me okay I can see you and I'm very jealous it looks amazing so I think any now what I'll be around me and behind me are doing the interview fantastic yeah if you've got anything here you can show us and we're going to talk about gravity at one point so if you can show something that will make it very visually kind of clear to our viewers what you're
explaining that's great but ok we're going we're going to start now

the next space then set ballot orthotics

the next space sensation making history

hundreds of kilometers above our heads

luca parmitano is the youngest

astronauts on a long-term mission to the international space station the 36 year old italian blasted up to the ISSS just a few weeks ago and joins us live from the orbiting outpost answering your questions and sharing a rare glimpse of what life is like in space look at many thanks for joining us on I talk I'd like
to know what's impressed you the most up

44
00:02:50,789 --> 00:03:00,539
there but it'd be easier to answer what

45
00:02:57,629 --> 00:03:02,969
has impressed me the least because

46
00:03:00,539 --> 00:03:04,949
everything has impressed me leaving a

47
00:03:02,969 --> 00:03:07,620
gorgeous tension is a very sensorial

48
00:03:04,949 --> 00:03:11,159
experience everything here is that

49
00:03:07,620 --> 00:03:14,489
perceived differently the things that we

50
00:03:11,159 --> 00:03:17,549
used to take for granted don't apply

51
00:03:14,489 --> 00:03:21,209
here anymore and so every time I look

52
00:03:17,550 --> 00:03:25,939
around is a surprise printer a different

53
00:03:21,209 --> 00:03:29,870
sensation but i think i'm surprised i

54
00:03:25,939 --> 00:03:32,519
think it was impressed me is how

55
00:03:29,870 --> 00:03:38,310
technology in the space station is

56
00:03:32,519 --> 00:03:40,799
really part of our daily life and but we

57
00:03:38,310 --> 00:03:42,390
are that so fast but now it just feels
like home even though we are surrounded by technology and I'm very thin very thin wall between us and space okay well

we'll go straight to our first question and that comes from Belgium hello my name is Jerry from Belgium and I want to know what has been the most difficult thing for you to give you soon in space so there's been months of preparation but what did you by surprise when you're up there

well I say that the training that we get really does an amazing job of getting us ready for living up in
space on the space station environment

looks oddly familiar appending all years

literally two and a half years in

different buildings around the world

that that where we have mock-ups of

tension of this module where I'm linear

and where I'm going right now so we are

we actually very they look so familiar

once you get here because you've seen so

many times I actually was surprised the

thing that was really hard for me

however was getting used to how things

were different different in a zero-g
staying still if he almost impossible on

GOG you will things float all the time

it's impossible panting somewhere you

always have to tell you attracted to

velcro or other means so it's the this

reverse way of thinking where think the

easy on the ground and hard of space and

vice versa that was the most heart the

hardest thing so far to adjust to very

briefly now but how long did it take you

to adjust to that all right I think I'm

Austin adjusting to it it's an evolving

process I've been on the special almost

three weeks now and I feel comfortable

enough I think that a two-week span is

what he really takes to start feeling

completely confident about moving in

treating in a three-dimensional world

and getting used to the 22 to

microgravity environment okay well look

at we're going to go to our next

question now guru Sri Ganesha to bench

is in may be able to weather the kolkata

journalist but

so you have got a very busy schedule up

there you're carrying out a lot of

experiments can you briefly give us an

outline of what you're doing so on the

space station at any given moment we
have hundreds literally our experiments

but we were only involved in in a few of

them at the same time for example today

my schedule is a partly busy with the

ATV the European Space Agency's space of

the just arrived a couple of days ago

after yesterday we're beating with some

preparation opening the hatch which I

just finished a started experiment I am

currently doing a diet experiment where

we are trying to figure out that

scientists are trying to figure out how

to reduce the loss of calcium and my

colleagues I'm glad you have this
00:07:22,718 --> 00:07:26,889
question because I have right here an

00:07:24,879 --> 00:07:29,349
example of what of what science we were

00:07:26,889 --> 00:07:33,459
doing today this is an awful sound

00:07:29,348 --> 00:07:35,649
machine right behind me and today my my

00:07:33,459 --> 00:07:38,249
to my two colleagues Chris Chris Cassidy

00:07:35,649 --> 00:07:40,928
and tenon library we're actually

00:07:38,249 --> 00:07:43,379
analyzing each other spine to an

00:07:40,928 --> 00:07:46,028
ultrasound machine and this will be a

00:07:43,379 --> 00:07:48,489
revolutionary way for people on the

00:07:46,028 --> 00:07:51,879
ground be able to analyze damages to

00:07:48,488 --> 00:07:54,968
their spine in remote areas where MRIs

00:07:51,879 --> 00:07:56,979
or x-ray machines are not available this

00:07:54,968 --> 00:08:03,189
is going to be a very big impact on the

00:07:56,978 --> 00:08:05,139
ground as we speak and there's some
health issues up in space for you

personally again with very short of time

but quickly tell us what those are

so you can ask the question again is the

first part there are some health issues

for you personally up in space as again

we're very short of time but can you

quickly tell us what those are sure so

one of the issues is the loss of perfume

our bones need private to do to grow and

get strong in a very simple way if

they're not in an experience that the

gravity they do not they tend to lose

their calcium and to become
brittle and fragile it's all sorted i

00:08:55,190 --> 00:09:01,970
will also girls another issue is at a

00:08:58,610 --> 00:09:03,800
cardiovascular level you your muscles

00:09:01,970 --> 00:09:06,019
tend to advertise because you don't use

00:09:03,799 --> 00:09:07,849
them as much I don't use my legs almost

00:09:06,019 --> 00:09:10,929
almost at all while moving in early

00:09:07,850 --> 00:09:15,170
States and the third one is related to

00:09:10,929 --> 00:09:18,589
vision because of the because of the

00:09:15,169 --> 00:09:21,379
Jersey environment I spent change to

00:09:18,590 --> 00:09:29,030
change shape that will affect long-term

00:09:21,379 --> 00:09:30,289
vision even permanent okay look at we're

00:09:29,029 --> 00:09:32,480
now gonna have a question from one of

00:09:30,289 --> 00:09:38,799
your biggest fans and that's five year

00:09:32,480 --> 00:09:44,830
old Alessandro Jordan jelly jam on son

00:09:38,799 --> 00:09:49,429
not me I demander a and C get additional
acid reality Abby that metal bottle

crashes ciao so with the Kepler
telescope he's spot on isn't he

Alessandro

sounds amazing yeah it sounds like a

great kid so here's my question is are

there there are other forms of life on

another planet supporting me so if

you're ready for my answer that would be

my answer would be this and this is

Lucas weekly not not the astronaut just

a simple person I believe that there are

so many planet millions and millions of

planets in the universe that what we
lack right now is imagination if we
could only imagine something different
than what we call life maybe not based
on water not based on the oxygen bottle something completely
different may be maintained maybe that you know different at different form of
something comparable what we call life
then I think that we are talking more
about probabilities numbers and that's
simplest way I can put it luca parmitano
many thanks for joining us on I took we
now got a few more questions from other
programs and one of those is for
learning world program is on education

and we want to know what was the most important milestone in terms of learning that changed the course of your life

ah that is that there is a great question if I had to pick one moment and really changed my life was when I was about 16 years old and I became an exchange student I I want a scholarship golly for a year by myself in the US as an exchange student and I think that coming from from ccd which is sort of a little bit far away from the heart you know it's in the south of Italy a
of Europe that experience really opened

my eyes and introduced me to the beauty

of difference the beauty of something

that is culturally completely are

related to what you're used to and not

to be afraid of social and cultural

differences okay then I've got some

questions from your colleagues with the

arrival of the automated Transfer

Vehicle you'll soon work on an

experiment called phases what can you

tell us about this experiment so faces

is a statement it is related to emotions

emotions are important because they they

have applications in many different
fields from pure chemistry to chemical industry to even the food industry and as an Italian that's the specifics important emotions have a tendency to be stable or unstable and sometimes we want them stable so sometimes we wander not stable on the space station we have the unique opportunity damn an environment where the disk decoratoristics are not affected by gravity and so it's an ideal place to study them in its simplest form so how can we benefit from this experiment
let's imagine a few a fuser is basically a mix of different different chemicals now obviously we will want this chemical to be stable for the longest possible so that it can start it can be used later in the in any condition on the ground storage on on on space because of the lack of acceleration of gravity so we need this suit to be stable we need to understand what are the characteristics they make up your stable or stable solid so that we can exploit those characteristics and accentuate the one that we like emanate the ones that we
don’t like the same goes for for storage

of food for example a simple plain like

like a vinaigrette now you need

everybody’s seen these these bottles of

mixes that separate after a while but we

need to be great if we could have find a

simple way to study these liquid solid a

stain a certain form in a stable form

for the longest time the same is true

for the opposite sometimes we would like

things to separate easily so that we can

distinguish them and again the

applications on the ground can vary from

focus from storage to a simpler way of
separating or cleaning there's just

certainly many more

right now those are just a few examples

participating in an experiment in

September with Michelle Hopkins called

energy can you tell us briefly about

that experiment

it's sort of relate the one that I was

talking about the diet in the future we

will we will try to understand how we

can go further in space leave low-earth

orbit and be independent well Jordan

that we need to understand how much how
much energy we spend as individuals when we are in orbit so this experiment that we will do in September and it's going to determine exact when except but a degree of precision that since never been obtained before exactly how much energy does navarrete astronaut Ozma not use while in space and that way we can predict the future how much you owe for the body how much food how much water we're going to need to store in the spaceship in order to go for a for a trip who knows maybe to the next planet okay yeah I think we have no more time
or maybe we could just quickly try and
slip something in now can you explain
what you drink no okay so we're done
station we're out of time this is
Houston ACR thank you that concludes the
event thank you very much your news
station we are now resuming operational
audio communications
instances look I'll spaced around to
copy