

# New Scientist

WEEKLY 13 January 2024

TINY T. REX FOSSILS  
MAY BE A WHOLE  
NEW SPECIES

BLACK HOLE 'ISLANDS' COULD  
SOLVE HAWKING'S PARADOX

INTERVIEW: MEET  
THE FIRST WOMAN TO  
FLY TO THE MOON

## SECRETS OF THE MEDITERRANEAN DIET

The real reason it's so successful and how  
to enjoy the benefits wherever you live

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**PLUS HOW VENUS FLIPPED ITS SPIN / AFRICA'S LOST MANATEES /  
IS IT TIME TO SHUT DOWN BITCOIN? / 2024'S BEST VIDEO GAMES**



## Marvellous material

Graphene turned into a semiconductor for the first time **p9**

## Waste not, want not

Grinding bones into paste can make meat go further **p11**

## Not so golden

Mining in Bolivia is causing mercury poisoning **p14**

## Neuro-rehabilitation

Psychedelic drug helps treat traumatic brain injury **p15**

## Coloured by history

Neptune isn't as blue as we thought it was **p19**

## Space

# Vulcan launches

NASA's first attempted mission to the lunar surface since the Apollo missions in the 1970s began with the launch on 8 January of a Vulcan rocket carrying a robotic lander. Unlike previous NASA missions, the new efforts will be public-private partnerships. But the mission is doomed because the Peregrine lander from space firm Astrobotic experienced a fuel leak that means it won't reach the moon.



CRISTOBAL HERRERA-ULASHKEVICH/EPA-EFE/SHUTTERSTOCK