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### Opening extract from

## Really, Really Big Questions About Space and Time

Written by

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## ARE THERE ALIGNS IN **OUR SOLAR SYSTEM?**

Today's space missions to Mars look for water, among other things. For where there is water, there might be life. In 2007, caves were discovered on Mars - so future missions may go there to search for Martian life under the ground... But the robotic explorers will be looking for tiny bugs, not bug-eyed monsters!

Another possible home for alien life is Europa, one of Jupiter's biggest moons. Europa is smooth: completely covered by an icy crust. *Underneath* that ice, the giant moon may be hiding a vast underground ocean – and tiny microbes, similar to those in Earth's oceans, may be lurking in those subterranean seas.



A very important book was published, in 1543, written book suggested that the Sun, not the Earth, was at the centre of our small solar system. Before Copernicus, the Earth hadn't been a planet, it had been...

Ever since Copernicus, astronomers have

It was only in the 1990s that we found the first official example. But today, we know of more than 300.

space is *gargantuan*. There are more stars in the sky than grains of sand on all the Earth's beaches. And many of those billions of stars will have planets in orbit about them. Surely, there must be another place like Earth out there somewhere...



by a Polish astronomer called Nicholas Copernicus. This





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been wondering about other planets like ours. Since the 19th century, we've known that most stars in the sky are like our Sun, and that many of them have planets in orbit around them. Such planets are called 'extrasolar' planets.

We've not found another Earth-like planet yet. But

Here's the thing: if Earth's not the only planet out there, and there are life forms on other planets, then Earth's not so special after all. It's just another place where life is nearly.

And here's another thing: biological about here. on evolution don't just work for creatures on Earth. They work for aliens, too. Creatures on other planets would also need to change and evolve, to suit the environment in which they lived.

> Since the vast majority of extrasolar planets are nothing like Earth, it makes sense that aliens wouldn't look like humans. It'd be very spooky indeed if there were another you, out there in space!

