

Added Steele, "electron microscopes and morphology [comparing the shape of organisms] are powerful tools, but they are not conclusive. More detailed biological tests of other meteorite specimens point in one direction -- terrestrial microbial contamination."

Last year Steele found evidence of infestation by fungi and bacteria in another piece of Murchison meteorite. Crystals had even started to grow over some of the microbes while the rocks had been in storage. In more extreme cases this mineral growth could possibly be mistaken for fossils.

Dr Matthew Genge, a meteorite researcher from the Natural History Museum in London, is also skeptical.

"Murchison meteorites are even more likely than most to have experienced contamination since they fell in a farmyard and, reputedly, at least some of the stones had to be recovered from a ditch filled with manure," Genge said, adding that "any meteorite recovered outside Antarctica has had ample opportunity to become contaminated. Those in museum collections have furthermore been handle many times."

Treiman wrapped up the case for the negative: "my opinion [for what its worth] is that the meteorites are infested with Earth bacteria -- the meteorites are not infested with extraterrestrial bacteria. The issue of life in the solar system is fascinating, but [like all good detective stories] will have lots of false leads."

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