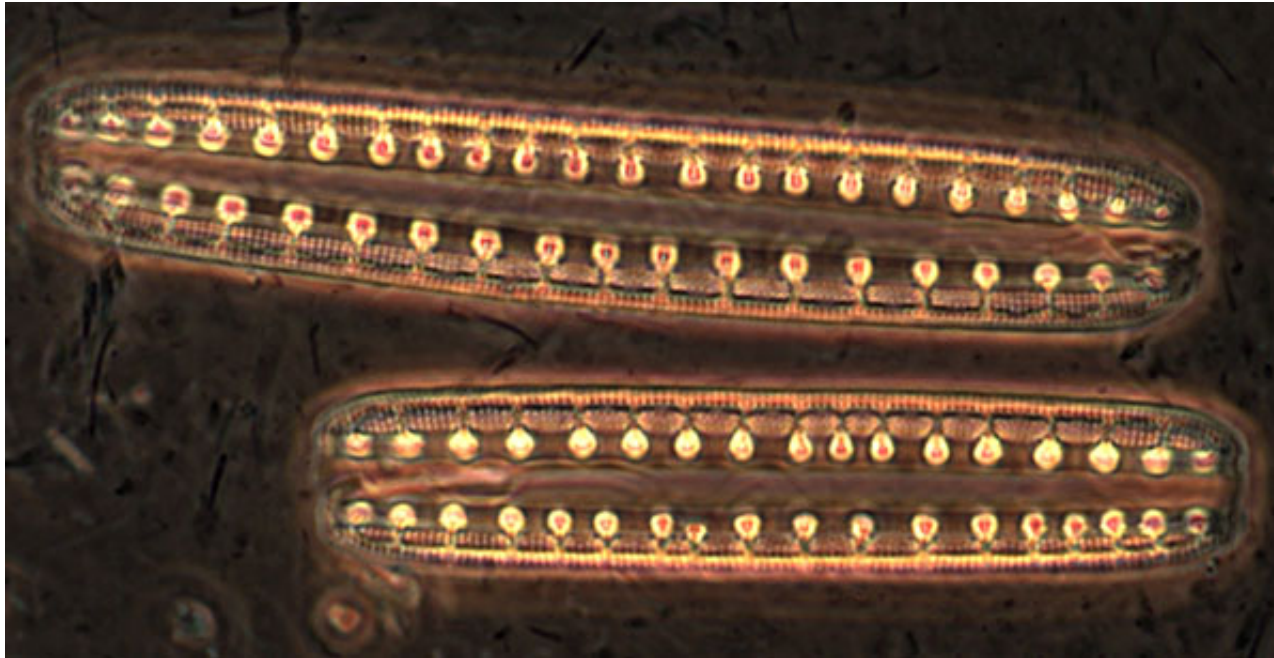




Extremophiles



Life is found in some extreme environments on Earth: places where it's hot, cold, dark, acidic, salty or there's no oxygen.



Organisms that live in particularly tough environments are called **extremophiles**.





Grand Prismatic Spring, Yellowstone National Park





methane ice worm





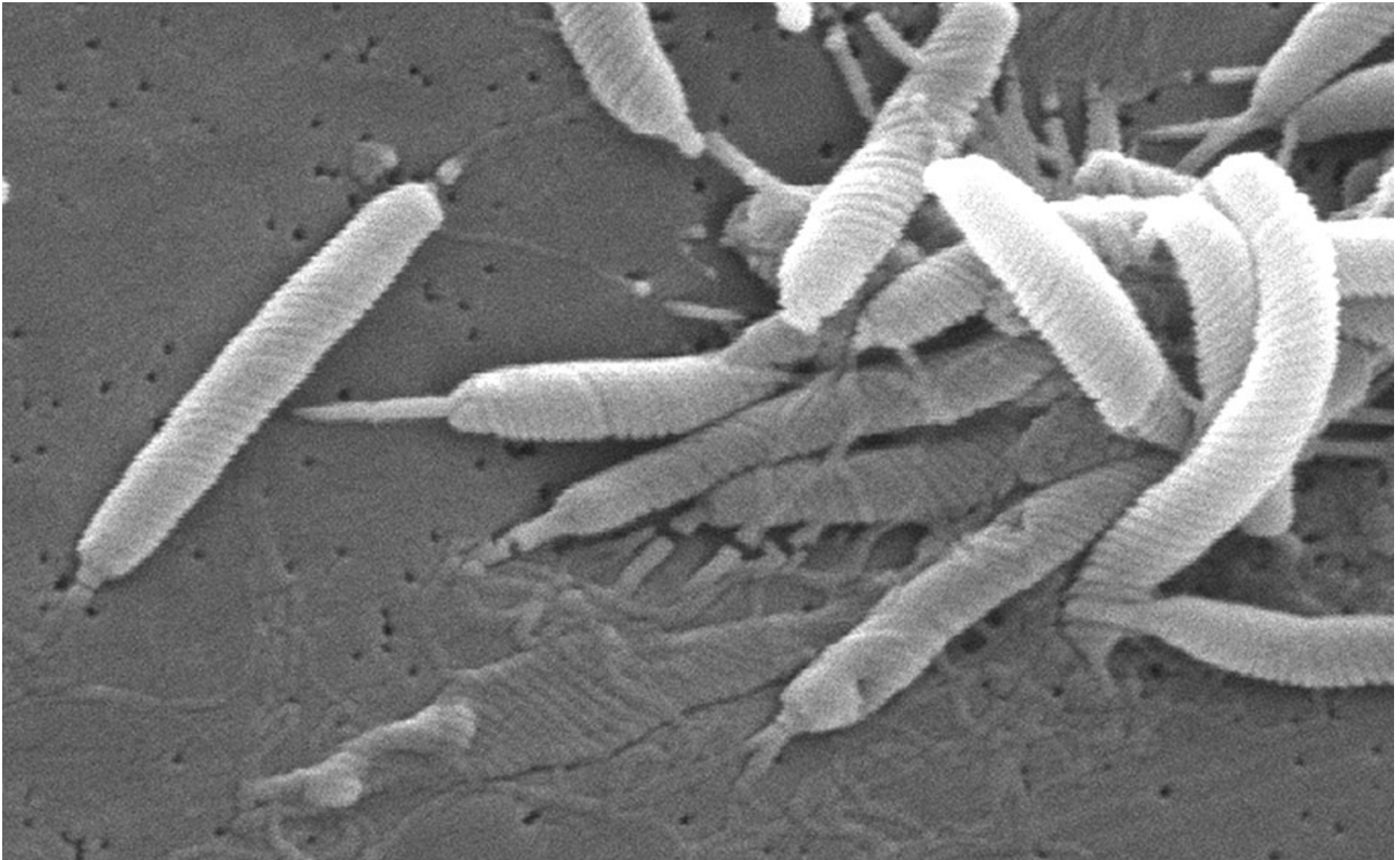
snottite





scaly-foot gastropod





Helicobacteria pylori



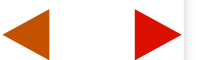


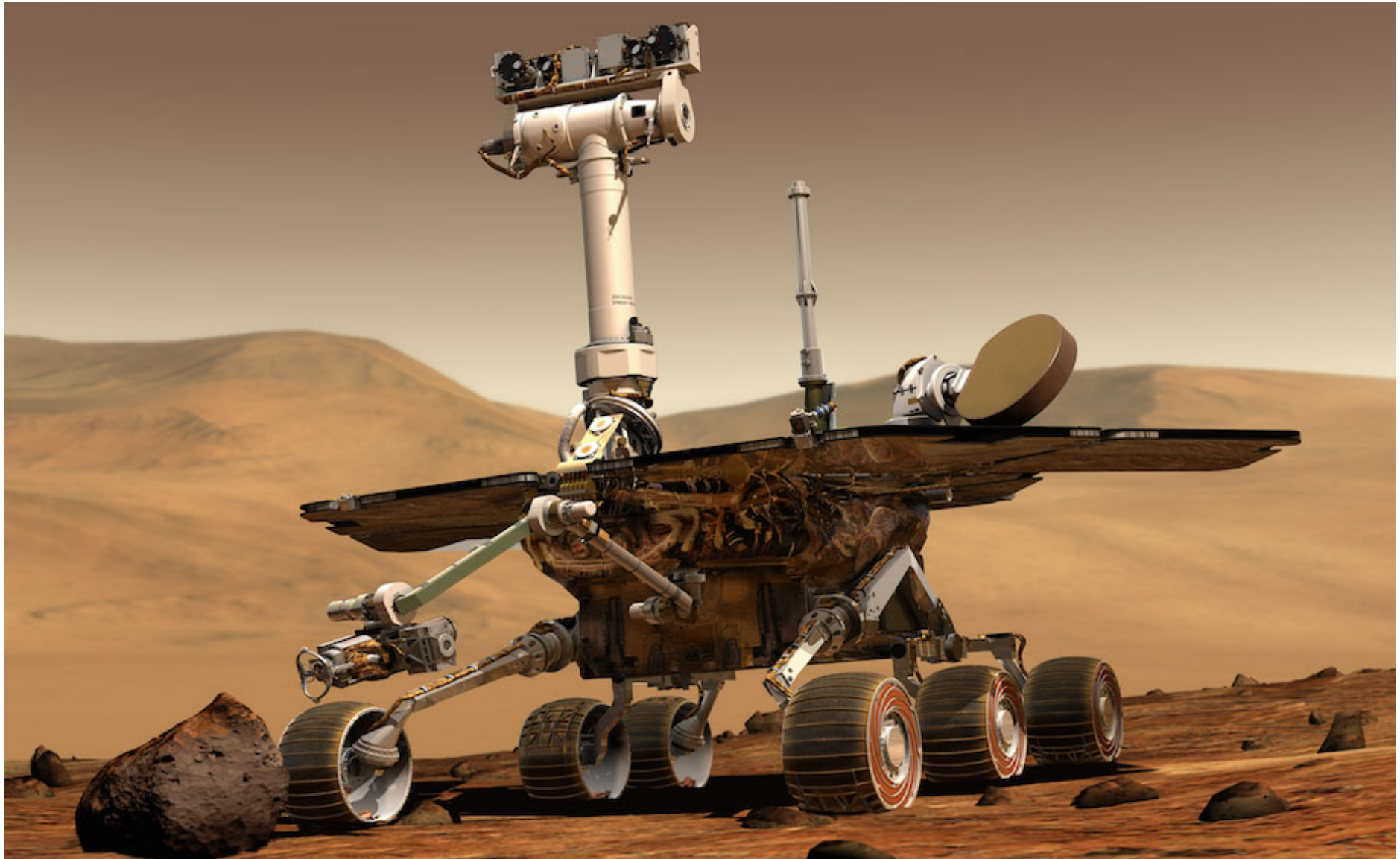
water bear (Tardigrade)





Could there be life on other planets, such as Mars?





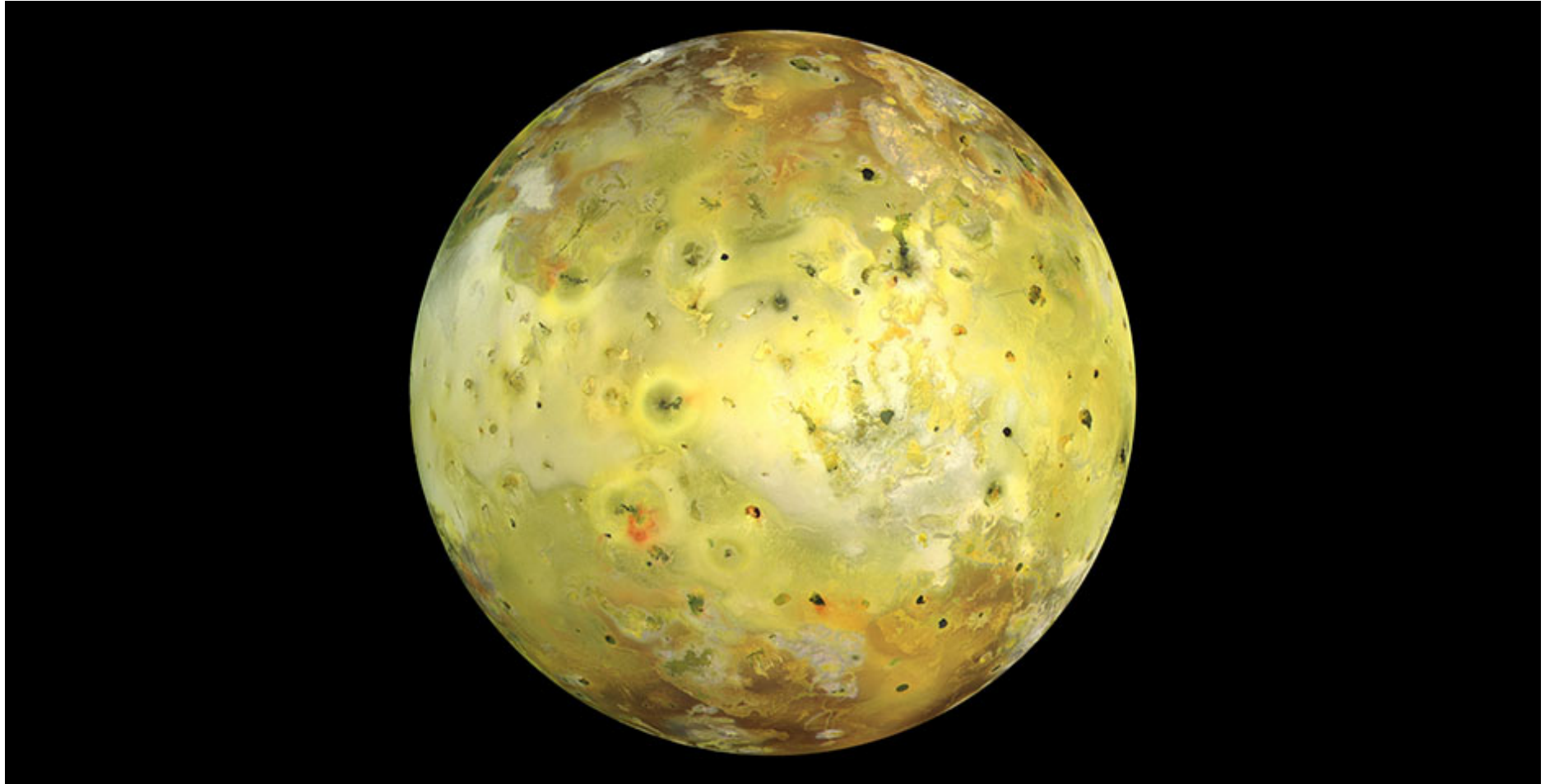
How could we find out?





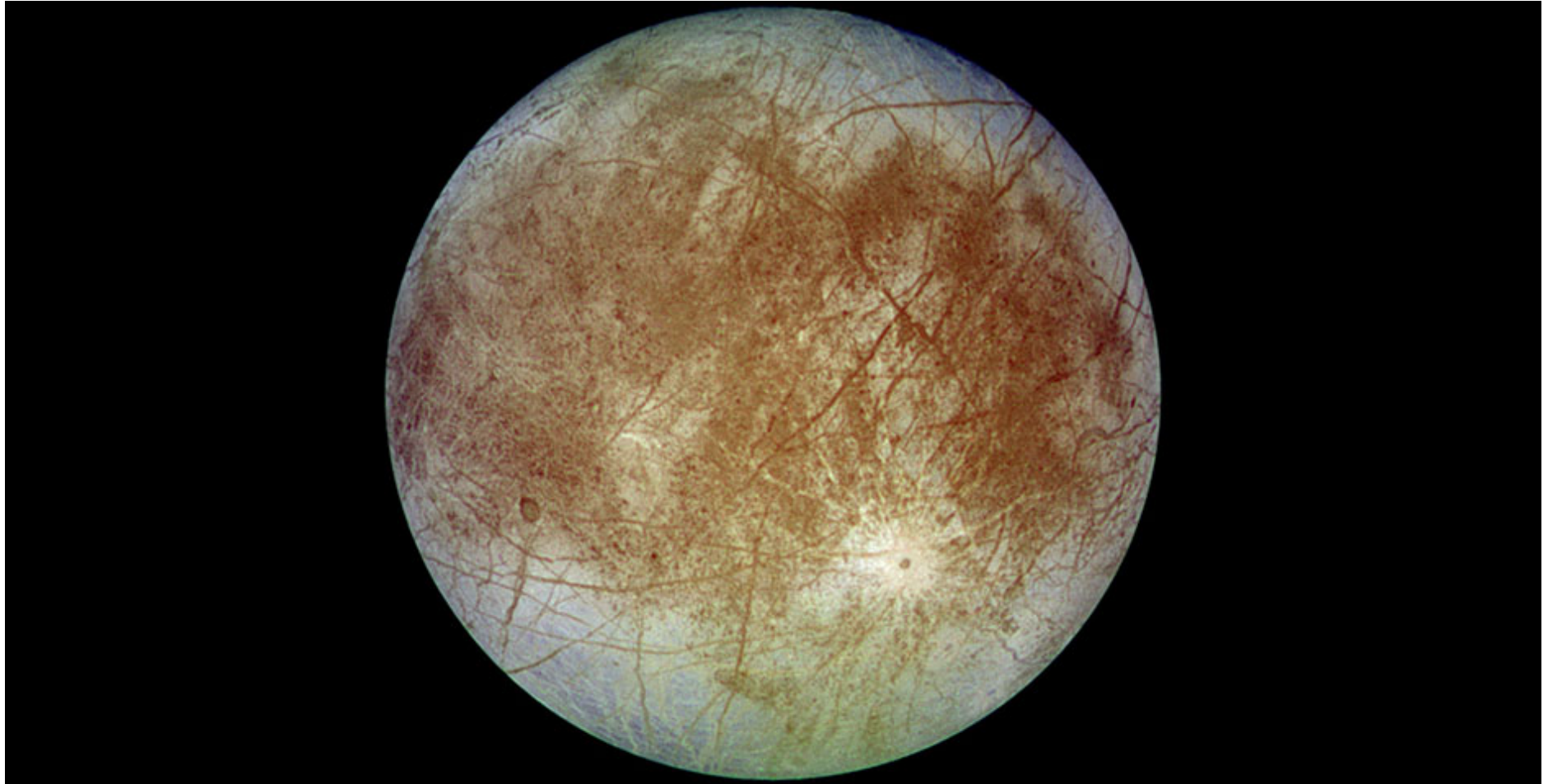
Some scientists believe Jupiter's moons are the best place to look for life in the Solar System.





Io





Europa





Ganymede





Callisto



Credits



Surirella (halophyte)
© D J Patterson



Grand Prismatic Spring, Yellowstone Nat. Park
Jim Peaco, National Park Service



Methane ice worm
© NOAA



Snottite (subsurface bacteria) Cueva de las Sardinas
© Kenneth Ingham



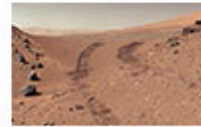
Scaly-foot gastropod (*Chrysomallon squamiferum*)
© Chong Chen



Helicobacteria. CDC/Dr Patricia Fields,
Dr Collette Fitzgerald (PHIL #5715), 2004.



Water bear (Tardigrade)
© Darron Birgenheier



Curiosity's view of Martian soil and boulders
© NASA/JPL-Caltech/MSSS



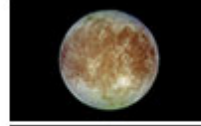
Artist's impression of a Mars rover on Mars
© NASA/JPL/Cornell University



Galilean satellites of Jupiter
© Jan Sandberg



Io
© NASA/JPL/University of Arizona



Europa
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Callisto
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Exploring the Solar System 8: Extremophiles (presentation)

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