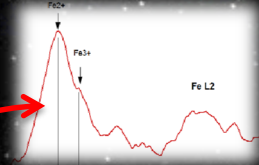
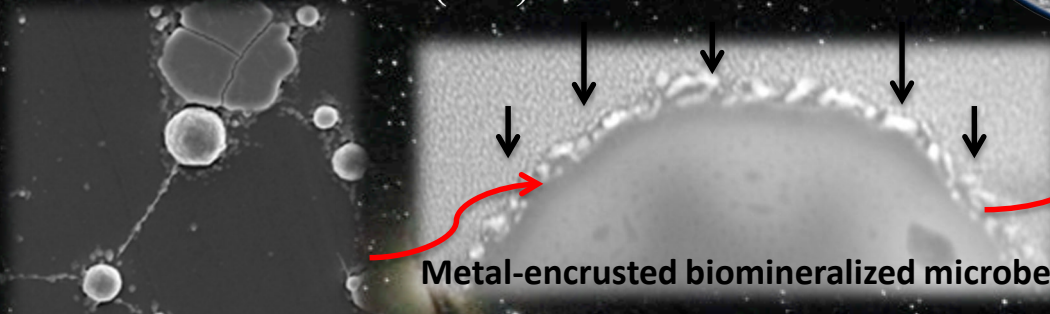
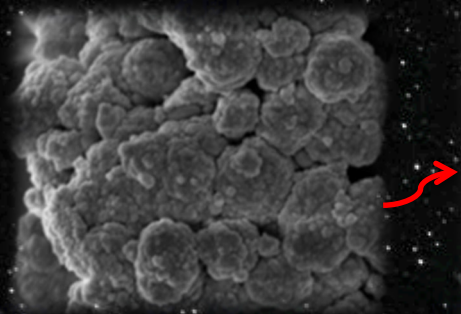
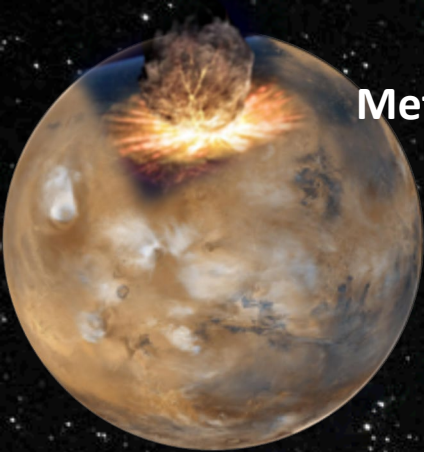


Metal-microbial Interactions in outer space environment

Aim of the study:

The master thesis aims to cultivate metallophilic microorganisms and characterize their metal-microbial interactions in outer space environment of low Earth orbit outside the International Space Station (ISS)



Microbial-mineral interactions in outer space

Metal-encrusted biomineralized microbe

Shielding mineral crust which protects microbial entity during interplanetary transfer

Microorganisms embedded in rocks

We offer:

Extensive supervision by experienced researchers of state-of-the-art approaches for fermentative cultivation and physiological characterization of metallophilic microorganisms, participation in a continuously evolving project, biochemistry of extremophiles, molecular techniques, electron microscopy and analytical spectroscopy techniques.

The candidate will be integrated into an interactive and international lab environment with a broad scientific experience in astrobiology, biochemistry, microbiology, biophysics, physiology, as well as microbial biotechnology.

Thesis duration: 6-12 months; salary: 440EUR per month. Beginning: immediately.

Prerequisites:

Highly motivated, enthusiastic students with a strong interest in Astrobiology/Biotechnology/Biochemistry/Microbiology/Analytical Chemistry, and with a passion for science and research are encouraged to apply. Previous experience in **microbiology** would be an asset.

If you are interested, please send your applications including CV, a letter of motivation and references to Tetyana Milojevic: tetyana.milojevic@univie.ac.at

For more information please visit our website at <https://www.bpc.univie.ac.at/ueber-uns/mitarbeiter/tetyana-milojevic/>