



"Success & Failure stories in Space" by Universeh WP5 - Space Innovations

Astrobiology experiments outside the International Space Station
Speaker: Daniela Billi, University of Rome Tor Vergata



Tuesday, March 11, 2025, 9:30 am (CET), on-line

Abstract:

How experiments performed on microbial extremophiles by using the ESA-EXPOSE facility installed outside the International Space Station contributed to improve our knowledge on the limit of life and the stability of biomarkers, thus contributing to better define the habitability conditions and search for life. A focus will be given to the BOSS (Biofilms Organisms surfing Space) and BIOMEX (BIOlogy and Mars Experiment) space experiments and how they build on the lessons learned from previous exposure experiments performed on-board the NASA Long Duration Exposure Facility or the European Retrievable Carrier

Biosketch:

Daniela Billi, PhD, associate professor at the Department of Biology, University of Rome Tor Vergata where she holds the courses of Astrobiology and Synthetic Biology. She is leading the laboratory of Astrobiology and Molecular Biology of Cyanobacteria and member of ESA and ASI topical teams on Astrobiology and Space Microbiology as well as of the INAF Scientific Advisory panel.

Online Attendance

Language: English

Platform: MsTeams

Link:

<https://teams.microsoft.com/l/team/19%3AhlhhuCE9iiBuD62kICu8BkJBAJiXK8IU0ZiczpPoXZ41%40thread.acv2/conversations?groupId=a74a2315-fa65-433e-b1fb-84933db58cdc&tenantId=24c5be2a-d764-40c5-9975-82d08ae47d0e>

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