Research Field: ASTROBIOLOGY AND GEOBIOLOGY
Focused Field: PRESERVATION OF BIOSIGNATURES

Ass. Prof.

DAVID

I am a geobiologist researching extreme environments for searching life on other planetary bodies for more than 20 years. During my graduation and PhD completion, my early career focused on the study of Neoproterozoic and Cambrian paleobiology. Since then, my research has diversified into various topics involving astrobiology, astrogeology, paleobiology, underground microbiology, Quaternary geology, or orebody biogeochemistry. I have worked in different international research centers during my research activity, including the Center of Astrobiology (Spain), the British Geological Survey, and Luleå University of Technology (Sweden). I am currently an associate professor at the State Key of Lunar and Planetary Sciences in the Macau University of Science and Technology that followed an appointment as chair of the origin of life at the University of Grenoble in France.

D.C., et al., 2021.
Unveiling microbial preservation under hyperacidic and oxidizing conditions in the Neogene Rio Tinto deposit

D.C., et al., 2013.
Molecular preservation in halite- and perchlorate-rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars

FDTC – 2020-2022 – Principal Investigator

Multidisciplinary search for biosignatures in ancient earthly evaporites as a proxy to find molecular evidence of primitive life on Mars

CNSA – 2020-2022 – Co-Investigator

Key Scientific Objectives of Giant Planet Systems