

Research Field STROBIOLOGY AND GEOBIOLOGY Focused Field RESERVATION OF BIOSIGNATURES

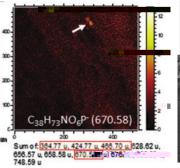
SHORT BIO

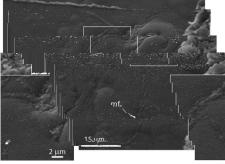
I am a geobiologistresearchinæxtreme environments for searching life on other planetary bodies for more than 20 years During my graduationand PhD completion, my early career focused on the study of Neoproterozoicand Cambrianpaleobiology Since then, my researchhas diversified into various topics involving astrobiology, astrogeology, paleobiology, underground microbiology, Quaternary geology, or orebodybiogeochemistryl have worked in different international research centers during my researchactivity, including the Centerof 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 PlanetarySciencesin the Macau University of Scienceand Technologythat followed an appointmentas chair of the origin of life at the University of Grenoblein France.

Ass. Prof.

DAVID FERNANDB5I .5w o







Biosignatures formed by underground ancient microb €semandezRemolar et al.2021

KEY PUBLICATIONS Sauthor)

D.C., et al., 2021.

D.C., et al., 2013.

Molecular preservation in halitand perchloraterich hypersaline subsurface deposits in StaterGrande basin

Unveiling microbial preservation under hyperacidic and oxidizing conditions in the Neogene Rio Tinto.deposi

Molecular preservation in halitand perchlorate ich hypersaline subsurface deposits in StatarGrande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars

, D.C, et al. 2005.

The Rio Tinto Basin, Spain: Mineralogy, sedimentary geobiology, and implications for interpretation of outcro at Meridiani Planum

PROFESSIONAL EXPERIENCE

2019Macau University of Science and Technology, Macao (Charas). Prof.

2018University of Grenobl@FR)- Chair Origin of Life Researcher

2017LuleåUniversity of Technolog(SE)-Senior Researcher

2008Centerof Astrobiology (SP)Associate Researcher

2004Centerof Astrobiology (SP)Assistant Researcher

GRANTS

FDTG-20202022-Principal Investigator

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

CNSA. 2020-2022 - CoInvestigator

Key Scientific Objectives of Giant Planet Systems

