



**geosciences**



*Special Issue Reprint*

## **Tracking the Deep Biosphere through Time**

[www.mdpi.com/books/reprint/3369](http://www.mdpi.com/books/reprint/3369)

Edited by  
Henrik Drake  
Magnus Ivarsson  
Christine Heim



ISBN 978-3-03943-951-5 (Hardback)  
ISBN 978-3-03943-952-2 (PDF)

Deep biosphere research is at the scientific frontier of bio- and geo-related sciences, yet it is largely underexplored. In terms of volume, deep subsurface settings represent some of the largest microbial habitats on the planet, and the combined biomass of the deep biosphere encompasses the largest living reservoir of carbon, excluding land plants. However, the paleo-record of the deep biosphere is still largely uncharted and neglected. The aim of this book is to highlight current research on deep life through time and bring together researchers with various perspectives. The book presents a collection of scientific contributions that provide a sample of forefront research in this field. The contributions involve a range of case studies of deep ancient life in continental and oceanic settings, of microbial diversity in sub-seafloor environments, and of the isolation of calcifying bacteria, as well as reviews on clay mineralization of fungal biofilms and on the carbon isotope records of the deep biosphere. Deciphering the fossil record of the deep biosphere is a challenging task but, when successful, will unlock doors to life's cryptic past.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/3369](http://www.mdpi.com/books/reprint/3369)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.