

# The Geomicrobiology Laboratory at the ETH Zürich

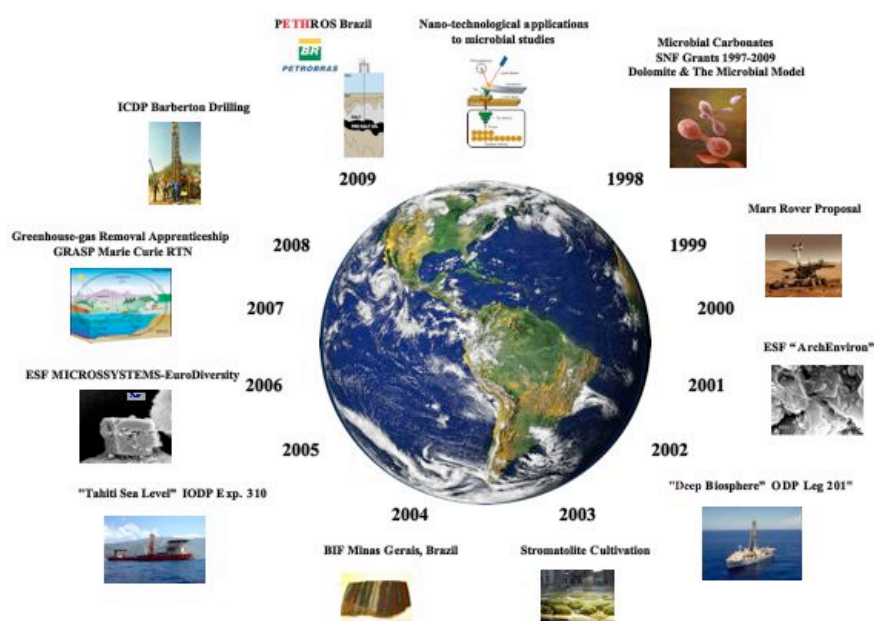
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The Geomicrobiology Laboratory of the Geological Institute, ETH Zürich was established on 1998 with the major goal being to decipher the relationship between microbial mineral formation, in particular carbonate minerals, and the evolution of life. Our basic research philosophy uses an Earth-System-Science approach, which integrates field studies with laboratory experiments and observations of the rock record to provide boundary conditions to calibrate the biogeochemical reactions responsible for mineral formation and diagenesis during specific periods of Earth history. The biogeochemical parameters derived from field studies were used to simulate natural conditions in cultural experiments with microbial communities isolated from the natural environment. Combining laboratory and field studies is essential to evaluate the processes involved in biomineralization and to interpret the rock record, as these biominerals represent the fossil record of microbial metabolism through geologic time.

## 10 Years of Research in the Geomicrobiology Laboratory



## Researchers in Geomicrobiology Laboratory (1988 - 2009):

Judith A. McKenzie  
Crisogono  
Vasconcelos  
Rolf Warthmann

Yvonne van Lith  
Patrick Meister  
Monica Sanchez  
Tomaso Bontognali

Stefanie Templer  
Alessandra Spadafora  
Anne Postec  
Sushimita Baskar

Muriel Pacton  
Anelize Bahniuk  
Clémence Tournaire  
Rebecca Lundberg  
Kurt Hanselmann

Lawrence Och  
Anna Etter  
Karine Plee

Angela Wagner  
Maria Dittrich  
Pieter Visscher