Project I: Carbonate and silicate biomineralization in hypersaline mats

1) Microbiology of mineral formation (microbial composition, SEM, isolation and culturing)
2) Geochemical characterization of solid precipitates from culture experiments (C, O isotopes, elemental concentration analyses, ICP-MS-OES)
3) Comparison of modern carbonates with ancient carbonate deposits

- Salinity: 3.5-15%
- Mineralogy: gypsum, silicates, dolomite and/or calcite
- Dominated by cyanobacteria and halophilic microbes

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