



Matthew Arthur Campbell

Research Area: Geomicrobiology

Email: macamp4591@gmail.com



Brief Summary

My research focuses on applying metatranscriptomic and lipidomic profiling to microbial mat communities in order to define key active metabolic pathways, adaptation mechanisms and chemotaxonomic markers under different environmental conditions.

Education: Curtin University - Bachelor of Science (Environmental Biology and Chemistry) and Bachelor of Science (Honours) (Chemistry)

Research interests: microbial ecology, biogeochemical cycles, adaptation mechanisms, lipidomics, chemotaxonomic profiling, isotope geochemistry, 'meta'omic' approaches, bioinformatics

Thesis title: Functional diversity of active microbial mat communities inferred from lipid biomarkers and metatranscriptomics

Supervisors: Prof. Kliti Grice and Assoc. Prof. Marco Coolen

Publications: Functional gene expression in Shark Bay hypersaline microbial mats: Adaptive Responses

Conferences: 2016 Astrobiology Australasia Meeting (poster), 2016/18 Australian Organic Geochemistry Conference (orals), 2018 Australian Geoscience Council Convention (poster and oral) and 2017/19 International Meeting on Organic Geochemistry (posters).

Links: <https://github.com/MACampbell91>
<https://www.linkedin.com/in/matt-campbell-7585a6a2/>
https://www.researchgate.net/profile/Matthew_Campbell20