

ANNUNCIO SEMINARIO

Mercoledì 4 Maggio 2022, ore 14.30

*Abstracts*

*Relatore: Prof. Donato Giovannelli, Dipartimento di Biologia, Università "Federico II" di Napoli*

**MICROBIAL CONTRIBUTION TO VOLATILE CYCLING IN POLAR ENVIRONMENTS:  
COMPLEX DYNAMICS AND ECOSYSTEM ROLE**

Microorganisms in soil and sediments are responsible for mineralizing a large fraction of the available organic matter and produce volatile gases with potential greenhouse effects. While the role of microorganisms in carbon cycling has been widely studied in diverse ecosystems, the microbial community response to the ongoing warming of polar regions is still unclear, and the magnitude and directionality of the microbial response is difficult to predict.

This is mainly due to the complex dynamics of microbial communities, their interactions with the surrounding environment and higher trophic levels as well as the lack of relevant data



collected synoptically with ecological and geochemical measurements. Here, I'll briefly present our ongoing efforts to fill some of the gaps in the role of microbial communities in polar regions.