

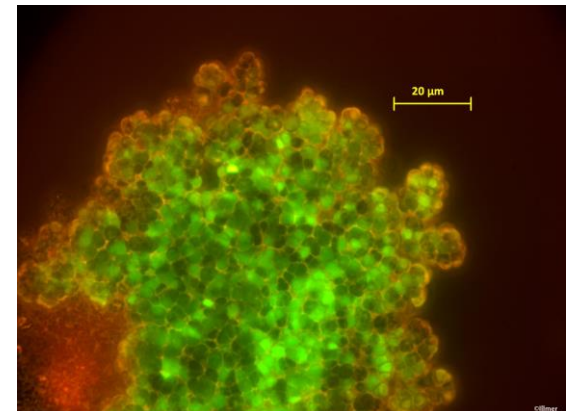
Soil Microbiology and Climate Change

Nadine Präg, Ecology of the Alpine Region



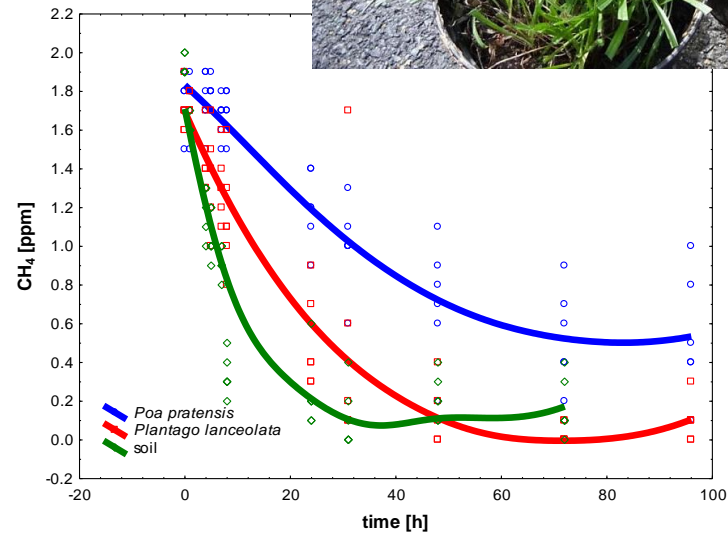
Soil Microbiology and Climate Change

- Methane (CH_4): despite its low concentration (1.8 ppm) \rightarrow important greenhouse gas
 - Influence of
 - abiotic/biotic properties
 - land-use changes
 - **plants**
- } on microorganisms engaged in CH_4 cycle of upland soils





Methane out of soil – what about the influence of plants?





ECM – Alpine Space – Man and Environment

- **What difficulties do you currently face in your research project?**
 - Analytical problems (isotope analyzer)
 - Bioinformatics
- **What are your special skills? Where could you help other „early careers“?**
 - Soil Microbiology (microbial biomass, microbial abundances, enzyme activities, ...)
 - Methane: methane production/oxidation potentials, ...
 - Chemical analysis (DOC, C/N, OM, ...)
 - Molecular microbial ecology (community analysis, ...)
 - Microbial diversity
 - Bioinformatics