

**Environmental Microbial Ecology Research Group (EMERG),
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Techniques used within the group:

- PCR and qPCR (16S- or functional gene specific)
- DGGE (16S- or functional gene specific)
- FISH and quantitative FISH
- Reporter genes (*dsRed*, *gfp*, *yfp* ...)
- CLSM, FACS examination

Techniques in progress within the group:

- Pyro sequencing
- mRNA RT-qPCR (N- cycle)

Projects:

CREAM; Permissiveness of soil bacteria toward conjugal genetic elements

RAMADA; Rapid Microbial Adaptation via Horizontal Gene Transfer

Rescobir; AOB and NOB interactions in aerated membrane-biofilm reactors

DWB: Nitrifying bacteria in drinking water biofilters