





## Aims of the project (1) P5 BRG > Quantification of competition for N between microbial N turnover processes involved in consumption/production/provision of N and plants and the resulting partitioning of N (field studies) Identification of temporal patterns of N-competition Identification of the effect of different vegetation components on Ncompetition > Characterization of the competitive strength of microbial N-turnover processes under changing (studies under controlled conditions) Water availability C-availability > Vegetation component > Determination of significance of contribution to N-competition > dissimilatory nitrate reduction to ammonium as a potential

component in NO<sub>3</sub><sup>-</sup> retention and biotic NO<sub>3</sub><sup>-</sup> consumption processes

- > abiotic nitrate immobilization as a potential competitive mechanism for biotic nitrate consumption
- N<sub>2</sub> fixation













