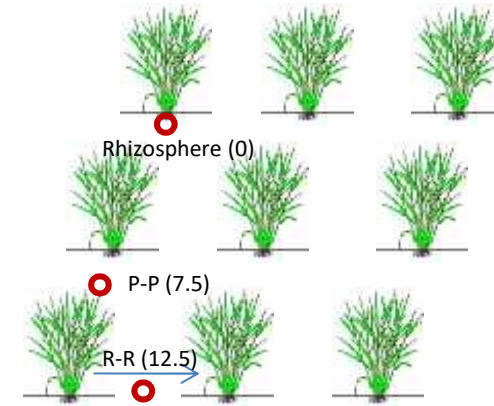
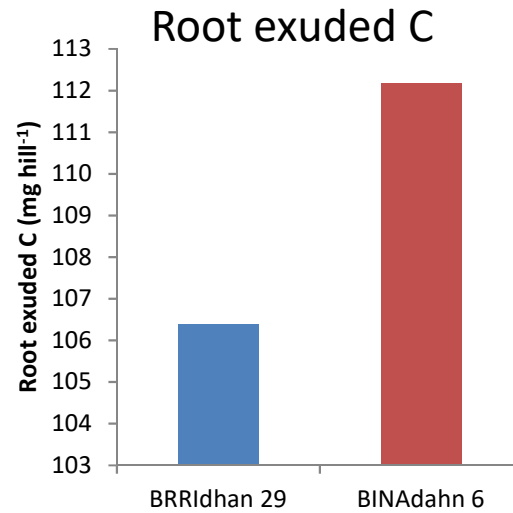
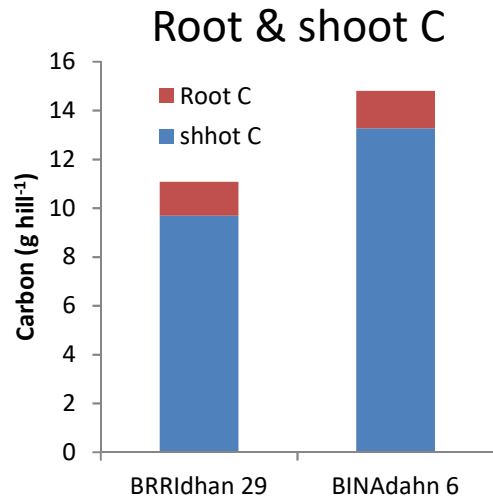




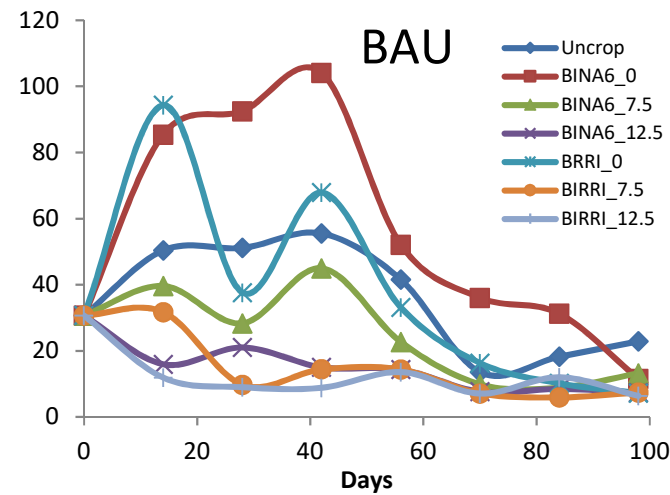
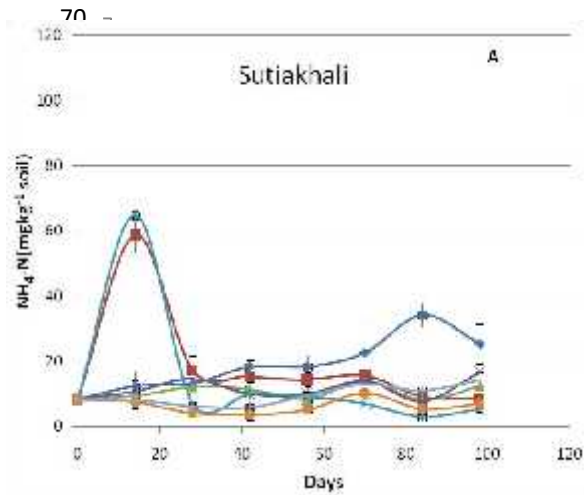
Assessing the influence of rice roots and root exudates on nitrogen mineralization in soil using a novel protocol

Shamim Ara Begum, Md. Abdul Kader, Steven Sleutel and Stefaan De Neve

Major Findings



BINA 6 > BRRI 29



- **BAU > Sutiakhali**
- **BINA 6 > BRRI 29**
- **Rhizosphere >> betⁿ plants ≈ betⁿ rows**

Mineral N levels in soils incubated with and without rice crop

Conclusions

- Root C-exudation seems relatively independent of rice variety and was about $1 \text{ mg C hill}^{-1} \text{ day}^{-1}$
- Rice plants promote soil mineral N release relative to uncropped soil at the BAU site but not at Sutiakhali
- Rice rhizosphere mineral N evolved at higher levels than in bulk soil, suggesting that exudation locally promoted soil N mineralization

THANKS