



## 7th International Nitrogen Initiative Conference (INI 2016)

4-8 DECEMBER 2016

WELBOURNE CRICKET GROUND | VICTORIA | AUSTRALIA

'SOLUTIONS TO IMPROVE NITROGEN USE EFFICIENCY FOR THE WORLD'

# Linkage of N<sub>2</sub>O emission to functional gene abundance in an intensively managed calcareous flu-aquic soil



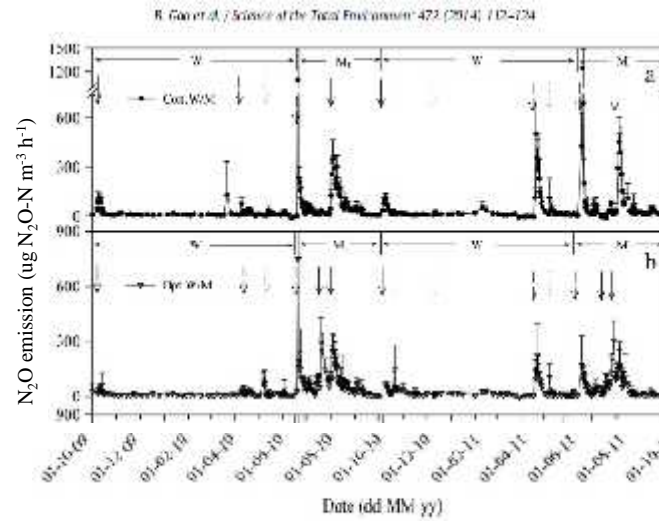
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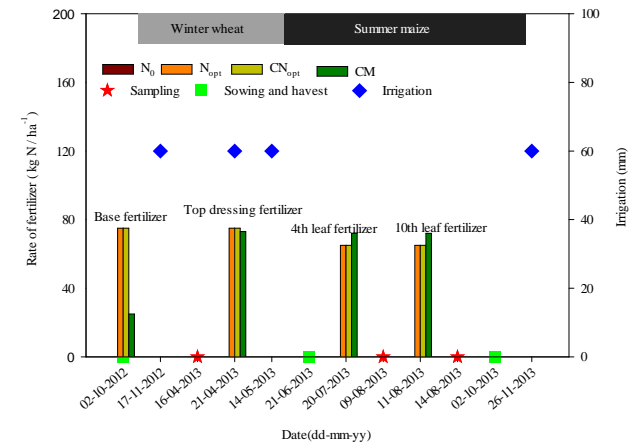
# Background



A long-term experiment  
Set since 2006  
Loated in Beijing suburb



Mean N<sub>2</sub>O emission from cropping systems



Main events in 2012-2013 winter  
wheat-summer maize  
rotation system

# Summary and Discussion

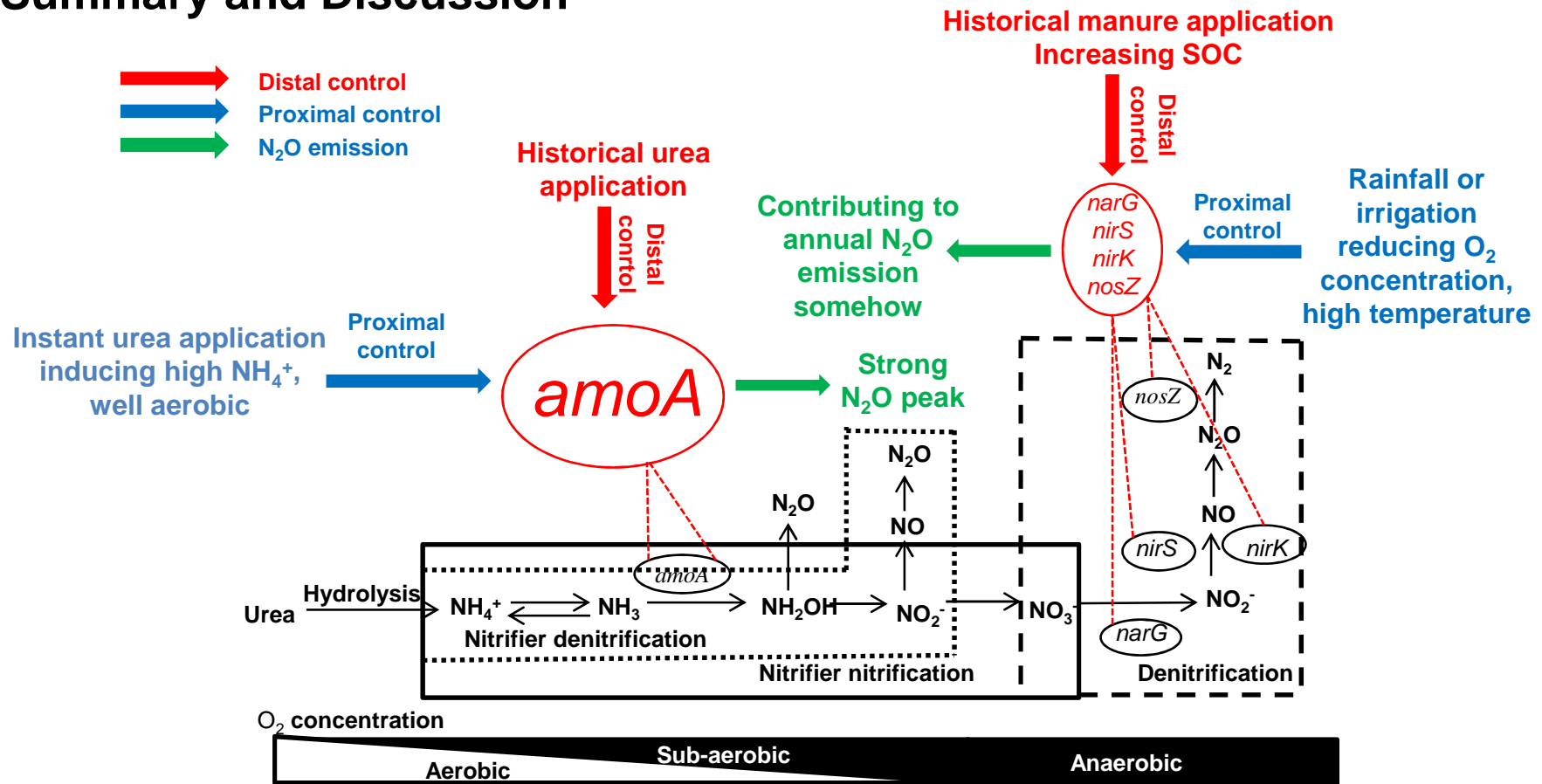


Figure 1. Diagram showing the linkage of N<sub>2</sub>O emissions with functional nitrifier and denitrifier genes controlled by distal and proximal drivers in the intensively managed calcareous fluvo-aquic soil.